



ANGLOGOLD ASHANTI
AUSTRALIA

**TROPICANA GOLD PROJECT
ASSESSMENT OF THE FLORA AND VEGETATION OF
THE OPERATIONAL AREA AND ITS SURROUNDING**



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ENVIRONMENT

Tropicana Gold Project Flora and Vegetation Assessment of the Proposed Operational Area and its Surroundings

Prepared by **ecologia** Environment

Tropicana Joint Venture



July 2009



Document Status						
Rev No.	Author	Reviewer/s	Date	Approved for Issue		
				Name	Distributed To	Date
A	Rebecca Graham, Caroline M ^c Cormick Conrad Slee		December 2007			
B	Carol Macpherson		May 2008		Belinda Bastow	21.05.08
C	C Macpherson		June 2008		Belinda Bastow	26.06.08
D			October 2008		Belinda Bastow	
E	C Macpherson		February 2009		Belinda Bastow	
F	C Macpherson		March 2009		Belinda Bastow	11.03.09
G	C Macpherson		July 2009		Belinda Bastow	09.07.09

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EXECUTIVE SUMMARY

Background

The Tropicana JV (TJV) is currently undertaking pre-feasibility study on the viability of establishing the Tropicana Gold Project (TGP), which is centred on the Tropicana and Havana gold prospects located approximately 330 km east north-east of Kalgoorlie, and 15km west of the Plumridge Lakes Nature Reserve, on the western edge of the Great Victoria Desert (GVD) biogeographic region of Western Australia.

As part of the pre-feasibility assessment, the TJV commissioned ecologia Environment (ecologia) to undertake a two-phase baseline biological survey of the vegetation and flora of the TGP and its surrounding environment. The initial phase was conducted from the 8th to the 17th November 2006 focusing on the area of high prospectivity and proposed infrastructure (the Operational Area). The second phase of the survey was conducted in two surveys from the 8th to the 15th of June 2007 and 2nd to the 16th of July 2007 across a broader area of 1,356 km².

Methods

The field surveys involved quadrat-based and opportunistic floristic sampling and targeted rare flora and declared weed surveys. The data matrix detailing the presence/absence of species and their abundance in the quadrates was analysed using multi-variate statistical methods, and resulted in a classification of the vegetation types present on the mine site. These vegetation types were mapped at a scale of 1:20 000

Survey quadrates were selected to sample the spectrum of vegetation types present, with a greater concentration within the proposed major area of disturbance. Eighty eight sampling quadrates were established during the initial phase of the Tropicana survey within the area of major impact. During the second phase a total of 165 quadrates were surveyed, of which 49 had previously been sampled in Phase 1. Thus a total of 204 quadrates were surveyed.

Flora

A total of 446 taxa were recorded during the Tropicana survey, including 3 naturalized alien taxa. Fifty seven families were represented by 162 genera. An assessment of the incompletely identified collections suggest that at least nine collections are likely to be repeats of taxa already collected and the total of taxa is more accurately reported as 437.

Flora sampling adequacy was estimated using species accumulation curve analysis. Using this analysis, the incidence-based coverage estimator of species richness (ICE, Chao et al (2000)) was determined as 486, suggesting that approximately 90% of the flora species potentially present within the study area were recorded during the survey.

Flora of Conservation Significance

One taxon listed under both the Federal *Environment Protection and Biodiversity Conservation Act 1999*(EPBC Act), and *Wildlife Conservation Act 1950* (WC Act) (listed as Declared Rare flora [DRF]) and fourteen Priority taxa listed under the Department of Environment and Conservation Priority Flora List (Atkins 2008) were recorded during the current survey.



Based on the proposed clearing footprint and current knowledge of the distribution, there will be no impact to the DRF Taxon *Conospermum toddii*. Impact to the majority of Priority taxa is also relatively minor or nil. However impact to the taxa *Acacia eremophila* var. *variabilis* (P2), *Grevillea secunda* (p2), *Dicrastylis cundeeleensis* (P3) and *Daviesia purpurascens* (P4) is considered significant at a local scale. However on a regional scale, given the distribution of these taxa elsewhere and their representation in most instances within the conservation estate, the impact is considered minor or negligible, as detailed in Table S.01

Naturalised Alien Taxa (weeds)

Three weed species have been recorded in the Tropicana survey area during the Environmental impact Assessment (EIA) flora survey; **Sonchus oleraceus*, **Spergularia rubra* and **Erodium aureum*.

Vegetation

Eleven major vegetation communities, incorporating a further eighteen vegetation subtypes were described during the survey. Mapping to sub-community level was not possible in all instances as the distinctions in composition visible at ground level and evident within the multivariate analysis could not be reliably discriminated using aerial photography.

Vegetation of Conservation Significance

A Priority 3 ecological community, Yellow sandplain communities of the Great Victoria Desert, has been identified as occurring to the south of the survey area. This PEC was originally listed on the basis of the survey of the Queen Victoria Springs Nature Reserve due to the high diversity of small vertebrate taxa and a diversity of mallee eucalypt species and other rare or poorly known plant species. The listing as a Priority 3 ecosystem at risk is on the basis of a perceived risk from mining.

No further information regarding the defining vegetation characteristics is available at present. Although the southern boundary of this community type has been determined, the northern boundary has not been confirmed thus at present it is unclear if any portion of the current survey area lies within the PEC.

Potential Impacts of the Proposed Development

A risk assessment was undertaken to determine potential impacts arising from the development on the flora and vegetation and the residual impacts following the implementation of management strategies. The potential impacts of the proposal and their implication with respect to compliance with EPA Position Statements are summarised in Table S.02



Table S.0.1: Assessment of the impact of the proposed development on DRF and Priority Flora

Taxon	% Impact within survey area	Distribution Outside the Survey Area based on WA Herbarium Records and recent surveys near the TGP	Assessment of impact to taxon viability
<i>Conospermum toddii</i>	0	WAHERB: 25 records, 14 of which are within QVSNR, distributed to the north east (210 km), west (200 km) and south east (150 km) of Tropicana Other recent: 1 location approximately 40 km to the south west, 9 locations within QVSNR	Nil
<i>Dampiera eriantha</i>	0	WAHERB: Two records approx. 3 km apart, 24 and 27 km north west in PLNR. Other recent: four locations ^o approx. 50 km south	Nil
<i>Baeckea</i> sp. Sandstone	0	WAHERB: Five records approx 200 km north west near Leinster; 400 km north west near Agnew, 530 km WNW near Sandstone; 500 and 550 km north west between Sandstone and Wiluna, Other recent: Nil	Nil
<i>Baeckea</i> sp. Gt. Victoria	10	WAHERB: Six locations, distributed to the west (500 km) south west (70 km), south west (100 km) and south west (15-35 km) Other recent: 15 locations ^o 15 to 100 km south to south west	Negligible. Taxon is broadly distributed with large population outside area and one population within the QVSNR
<i>Dicrastylis nicholasii</i>	34	WAHERB: Six within PLNR, one 130 km to south. Other recent: 34 locations ^o 18 to 133 km to the south and southwest	Negligible. Very abundant locally and outside the survey (at least 2,600 more plants recorded), with multiple populations within the PLNR
<i>Malleostemon</i> sp. Officer Basin	0	WAHERB: Three other locations, all south (25 km), south west (13 km) and south west (75) km Other recent: 2 locations ^o 51 to 56 km south east	Nil
<i>Olearia arida</i>	20	WAHERB: Five records; immediately north of PLNR, 80 km south west, 10 and 35 ESE, and 110 north east of survey area Other recent: 26 locations ^o 5 to 130 km south east to south west in which at least 300 plants were recorded	Minor. Abundant at some other populations and recorded within the PLNR



Taxon	% Impact within survey area	Distribution Outside the Survey Area based on WA Herbarium Records and recent surveys near the TGP	Assessment of impact to taxon viability
<i>Grevillea secunda</i>	38	WAHERB: 16 collections, seven within QVSNR; eight between QVSNR and the southern boundary of the survey area, 25 to 60 km south east; Adelong Station, 380 km to the west. Other recent: 18 locations ^Q 5 to 125 km south to south west	Minor. Although apparently uncommon within the survey record it is known from a large number of other locations, 15 of which are within the conservation estate.
<i>Acacia eremophila</i> numerous-nerved variant	55	WAHERB:Seven collections: 95, 98 and 105 km to the north east, east and south east respectively; Perseverance Well,200 km to the west; Balladonia 350 km to the south west; and 40 km to the south east. Other recent: One location approximately 100 km north east near Neale Junction	Minor. Appears to be abundant at some other locations and is reasonably widely distributed, but to date has not been recorded within the conservation estate.
<i>Acacia eremophila</i> var. <i>variabilis</i>	22	WAHERB: Six locations: Lake Moore 700 km west; Ardath, 670 km to the south west; Comet Vale, 315 km to the west; Balladonia, 330 km to the south; Menzies, 325 km to the west; and Zanthus, 190 km to the south west	Minor. Does not appear to be abundant at other locations where noted. Very broadly distributed but not recorded within the conservation estate to date.
<i>Dicrastylis cundeeleensis</i>	92	WAHERB: Nine locations 75 km south west at Officer Basin Airstrip; 34 km east approx 15km north of PLNR; 134 km south west approx 15km SE of QVS; 109 km south west approx 24 km NNE of QVS; 114 km south west near Argus Corner; 23 km south east near Salt Creek airstrip; 105 km east ; south eastern corner of survey area Other recent: 13 locations ^Q 10 to 130 km south of survey area	Minor. Known from multiple other locations at frequencies range from low to abundant. The abundance within the survey area is likely to be greater than current records suggest, as some older data may not have recognised collections as this taxon.
<i>Microcorys macredieana</i>	5	WAHERB:QVSNR, PLNR; 200 km to the north along the road to Warburton; 450 km to the north east near Warburton; 550 km to the north west in the Carnarvon Range, Little Sandy Desert Recent other: 24 locations ^Q 4 to 75 km south to south west	Negligible: Known from more than 40 other locations at frequencies ranging from low to common. Recorded from both QVSNR and PLNR.
<i>Micromyrtus stenocalyx</i>	3	WAHERB:PLNR; extensively within QVSNR; near Cundeelee, 150 km to the south west; on the PNC track 80 km to the south west; on the Coolgardie road, 340 km to the south west. Recent other:12 locations ^Q , 40 to 80 km south west	Negligible: Broadly distributed at variable frequencies. Recorded from both QVSNR and PLNR



Taxon	% Impact within survey area	Distribution Outside the Survey Area based on WA Herbarium Records and recent surveys near the TGP	Assessment of impact to taxon viability
<i>Daviesia purpurascens</i>	94	WAHERB: Very broad distribution ranging from Denham, over 1000 km to the west, to Kalgarin, 650 km to the south west. Recent other: 16 locations ^Ω 20 to 60 km south to south west	Negligible despite high level of localised impact due to very broad distribution and high abundance of many other populations. Recorded within QVSNR and Dragon Rocks NR.
<i>Lepidobolus deserti</i>	0	WAHERB: Perrinvale Station, 400 km to the west; Goongarrie Station, 320 km to the south west. P PLNR and QVSNR. Recent other: 44 other locations ^Ω , 10 to 60 km south to south west	Nil

QVSNR = Queen Victoria Spring Nature Reserve

PLNR = Plumridge Lake Nature Reserve



Table S.0.2 Conformance of project and current study to EPA statements (as per Position Statement No. 3 and Guidance Statement No. 51)

REQUIREMENT	EPA STATEMENT	RELEVANCE TO PROJECT	PROJECT COMPLIANCE
Impact on Biodiversity	Position Statement No. 3	Where impact on biodiversity cannot be avoided, the proponent must demonstrate that the impact will not result in unacceptable loss.	The survey area is located in a region of contiguous vegetation with very little degradation from mining, pastoral activities or agriculture. Impact to diversity of vegetation as a result of clearing will be minimal due to the widespread occurrence of the vegetation types within the proposed impact footprint. Impact to a proportion of the some Priority taxa is likely. In most instances the proportion of plants impacted is low. For a small number of taxa the localised impact is significant based on current knowledge of their distribution. However given to the distribution of these taxa outside the survey areas, including in some instances their representation in the conservation estate the project is considered unlikely result in a loss of viability of the species.
State, National and International Agreements, Legislation and Policy on Biodiversity	Position Statement No. 3	Information gathered for environmental impact assessment in Western Australia meets State, National and International Agreements, Legislation and Policy in regard to biodiversity conservation.	Impacts to species listed under relevant legislature and the relevance of the project to principles outlined in the <i>Environmental Protection Act 1986</i> are discussed in Section 6.0.
EPA Standards, Requirements and Protocols	Position Statement No. 3	The quality of information and scope of field surveys meets the standards, requirements and protocols as determined and published by the EPA.	The current survey conforms to a Level 2 survey, comprising a reconnaissance survey and comprehensive vegetation and flora survey, as per Guidance Statement 51.



REQUIREMENT	EPA STATEMENT	RELEVANCE TO PROJECT	PROJECT COMPLIANCE
Biodiversity Conservation and Ecological Function Values	Position Statement No. 3	Sufficient information is provided to address biodiversity conservation and ecological function values.	There will be local loss of biodiversity arising from clearing. As far as can be established given current information on a regional basis with respect to vegetation, regional biodiversity will not be significantly impacted. Specific protocols will be implemented to avoid damage to the Declared Rare Flora taxon <i>Conospermum toddii</i> and to minimise impact to the Priority Flora present. Impact to Vegetation type 9 (<i>Casuarina pauper</i> woodland), saline complex and rocky breakaways which are poorly represented in the GVD is minimal or nil.
State Biological Databases	Position Statement No. 3	Terrestrial biological surveys will be made publicly available and will contribute to the bank of data available for the region.	Rare Priority Report Forms and a list of taxa collected will be submitted to DEC as per licence regulations.
Sampling design and intensity at two levels – regional and area specific	Guidance Statement No. 51	Point based sampling was used, with a minimum of two sites per vegetation type other than saline units confined to small areas.	A two phase survey was conducted with 205, 20 x 20 m (or equivalent area) quadrates distributed throughout the survey area.
Landform – scale, rarity, heterogeneity	Guidance Statement No. 51	The area encompassed in the survey was sufficiently large that the broad scale distribution of vegetation could be assessed	The range of landforms present within the area were represented within sampling quadrates
Habitat – scale, rarity, heterogeneity	Guidance Statement No. 51	The area encompassed in the survey was sufficiently large (128,775 ha) relative to the area of proposed infrastructure (3,066 ha) that the broader distribution of vegetation communities could be assessed	The range of habitats within the area were represented within sampling quadrates
Vegetation structure, diversity and seasonality	Guidance Statement No. 51	The area encompassed in the survey was sufficiently large that the broad scale distribution of vegetation could be assessed	The vegetation was mapped at a scale of 1:25,000 in to 11 community types. An additional 18 sub-types were identified using multivariate analysis.
Potential for conservation significant flora to occur, based on habitat analysis	Guidance Statement No. 51	Taxa considered potentially capable of occurring were assessed based on searches of the DEC Rare Flora databases..	A total of one DRF taxon and fourteen Priority taxa were found within the footprint. Taxa considered potentially capable of occurring were assessed based on searches of the DEC Rare Flora databases.



REQUIREMENT	EPA STATEMENT	RELEVANCE TO PROJECT	PROJECT COMPLIANCE
Results including species/area curves, species and ecosystem diversity and heterogeneity	Guidance Statement No. 51	Requirements for data presentation as specified in Section 3.3.2 of Guidance No 51 have been addressed.	<p>A list of taxa recorded ordered by Family is presented in Appendix A.</p> <p>Species accumulation curves suggest a total of 92% of the total flora occurring within the area have been collected</p> <p>The species richness of the area was compared to reported values for other areas within semi-arid zones.</p> <p>Multivariate analysis of perennial species on the basis of cover –ranked data is included</p> <p>A table of each vegetation type, % affected and their values is included.</p>
Information on adjacent areas – previous surveys and herbarium records	Guidance Statement No. 51	A review of information within the GVD and in particular areas adjacent to the TGP was conducted.	Previous studies at Plumridge Lakes Nature Reserve and Queen Victoria Spring Nature Reserve were used for comparative purposes. Unpublished surveys for earlier mining exploration in surrounding areas were also evaluated, although differing methodologies meant that these report were of limited use for comparative assessment.



1.0 INTRODUCTION

1.1 Project Background

The Tropicana JV (TJV) is currently undertaking a pre-feasibility study on the viability of establishing the Tropicana Gold Project (TGP), which is centred on the Tropicana and Havana gold prospects. The proposed TGP is located approximately 330 km east north-east of Kalgoorlie, and 15 km west of the Plumridge Lakes Nature Reserve, on the western edge of the Great Victoria Desert (GVD) biogeographic region of Western Australia (Figure1-1). The Tropicana and Havana prospects represent the first gold resource discovered in this remote portion of Western Australia. Drilling to date suggests that the resource represents a multi-million ounce discovery within a new Greenfields gold province. The operational area is a joint venture between AngloGold Ashanti Australia Limited (70% stakeholder and Manager) and the Independence Group NL (30% stakeholder).

The TGP consists of three main components (Figure1-1):

- Operational Area - This area contains the mine, processing plant, aerodrome, village and other associated infrastructure;
- Water Supply Area - Two basins have been investigated, the Minigwal Trough and Officer Basin; and
- Infrastructure Corridors - Two options are under consideration (Transline Infrastructure Corridor and Pinjin Road options).

In preparation for the Environmental Impact Assessment, the TJV commissioned *ecologia* Environment (*ecologia*) to undertake a two-phase baseline biological survey of the vegetation and flora of the TGP Operational Area and its surroundings. The primary objective of this study was to provide sufficient information to the Environment Protection Agency (EPA) and other Government Department to assess the impact of the project on the vegetation and flora of the area as part of the Public Environmental Review (PER) process. The initial phase was conducted from the 8th to the 17th November 2006 focusing on the area of major prospectivity and proposed infrastructure, and the second phase of the survey was conducted in two surveys from the 8th to the 15th of June 2007 and 2nd to the 16th of July across a broader area of 1,356 km² (Figure 1-2).

1.2 Survey Objectives

The EPA's objectives with regards to management of native flora and vegetation are to:

- Avoid adverse impacts on biological diversity comprising the different plants and animals and the ecosystems the form, at the levels of genetic, species and ecosystem diversity;
- Maintain the abundance, species diversity, geographic distribution and productivity of vegetation communities;
- Protect Declared Rare Flora consistent with the provisions of the *Wildlife Conservation Act 1950*; and
- Protect other flora species of conservation significance.



Hence, the survey aimed to provide sufficient information to the EPA to assess the impact of the project on the vegetation and flora of the area, thereby ensuring that these objectives will be upheld.

Specifically, the objective of this survey was to undertake a survey that satisfies the requirements documented in EPA's Guidance Statement 51 and Position Statement No. 3, thus providing:

- A review of background information (including literature and database searches);
- An inventory of vegetation types and flora species occurring in the study area, incorporating recent published and unpublished records;
- An inventory of species of biological and conservation significance recorded or likely to occur within the Operational Area and surrounds;
- A map and detailed description of vegetation types occurring in the study area;
- A description of the characteristics of the vegetation types;
- An appraisal of the current knowledge base for the area, including a review of previous surveys conducted in the area which are relevant to the current study;
- A review of regional and biogeographical significance, including the conservation status of species recorded in the project area; and
- A risk assessment to determine likely impacts of threatening processes on vegetation and flora within the study area.

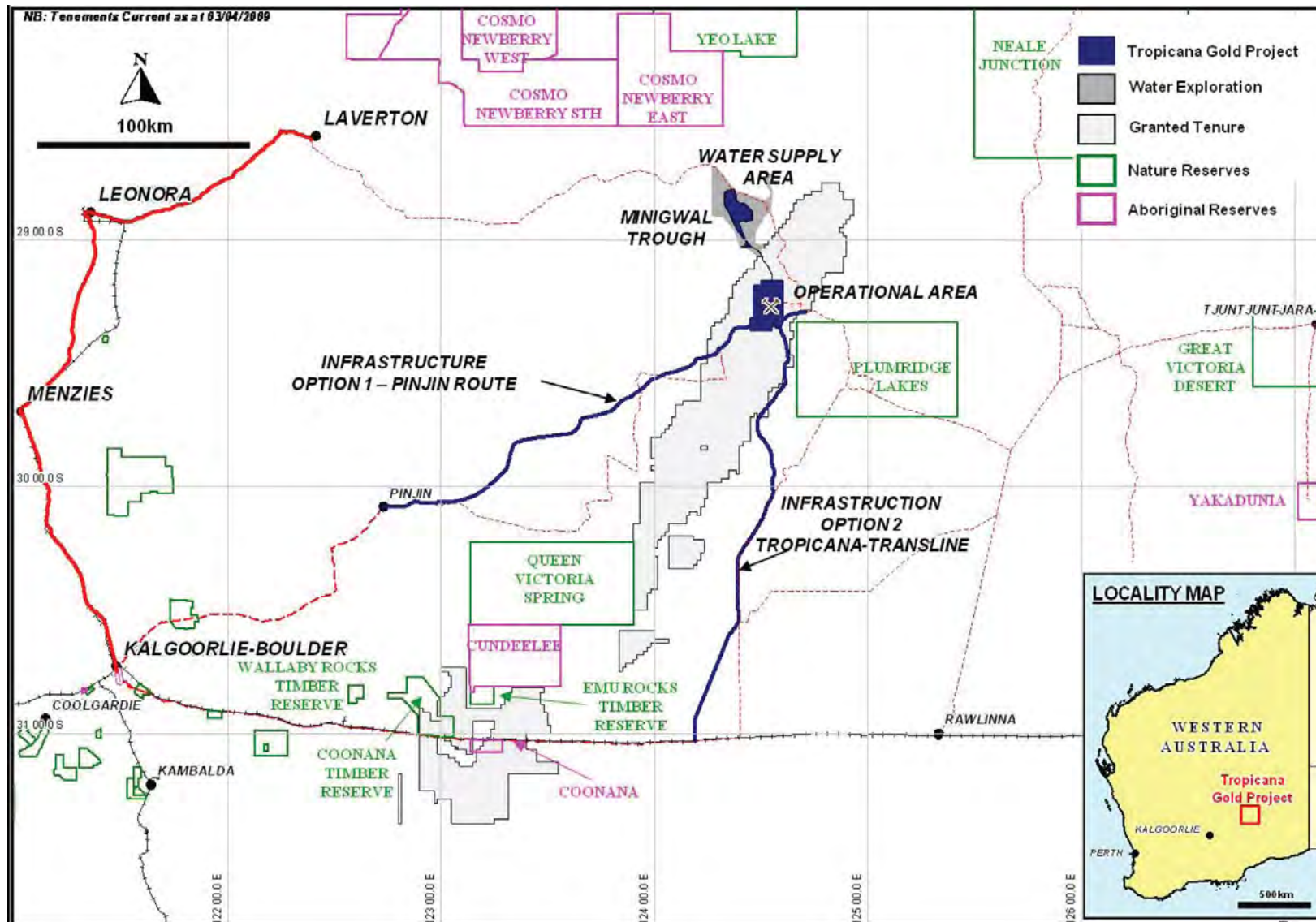


Figure1-1 General location of Tropicana Gold project

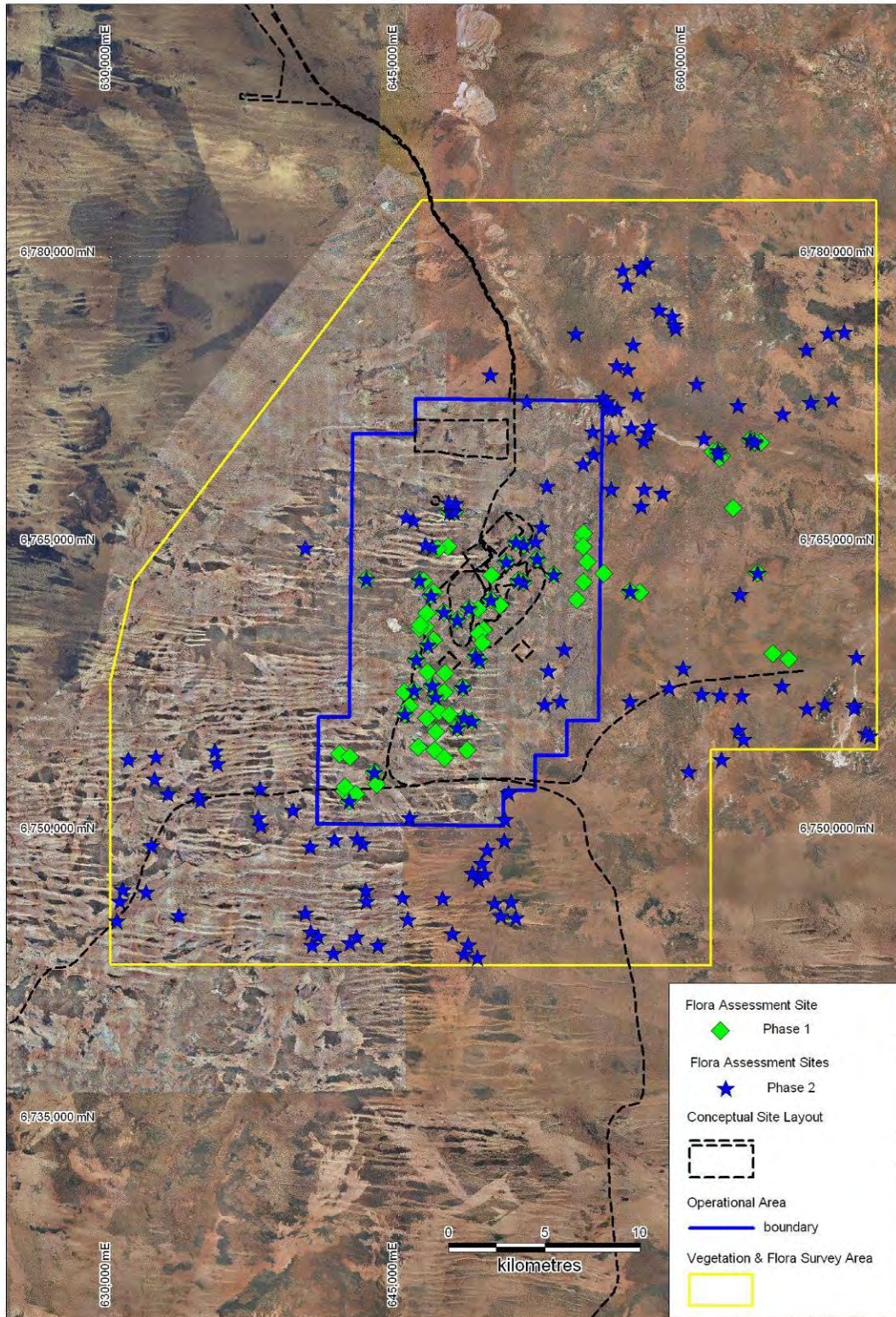


Figure 1-2 Location of survey sites within the survey area with differentiation between Phase 1 and Phase 2 sites



2.0 REGIONAL SETTING

2.1 Climate

The south-west of the Great Victoria Desert experiences an arid climate with summer and winter rainfall ranging from 150 to 190 mm per year (Beard, 1974; Beard, 1975; Barton & Cowan, 2001). The Tropicana study area falls between the 178 and 203 mm rainfall isohyet range on the Bureau of Meteorology (BOM) rainfall map of this region, receiving approximately 200 mm annually (Beard, 1974). Temperatures may range between -3°C and 48°C, with the highest temperatures in January and February and the lowest in July and August.

There are no long-term climate records for the Tropicana Operational Area or its vicinity and the closest BOM weather stations with current records are located at Laverton, approximately 220 km northwest, and Balgair, approximately 250 km south-east. Climatic conditions for the Tropicana Project area can be extrapolated from climatic data from these two locations are summarised in Table 2-1. Laverton and Balgair stations appear to receive more rainfall than has been described for the Great Victoria Desert by Beard (1974; 1975) and Barton & Cowan (2001) therefore the following summary should be used as a rough estimate only.

Table 2-1 Summary of climatic data for Laverton and Balgair weather stations

Statistic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Laverton												
Mean max (°C)	35.8	34.8	31.9	27.2	22.1	18.5	17.8	20.0	24.5	28.0	32.1	34.9
Mean min (°C)	20.5	20.0	18.0	13.9	9.5	6.6	5.2	6.4	9.5	12.8	16.6	19.3
Mean rainfall (mm)	24.3	30.1	30.7	22.6	24.1	24.4	16.4	13.7	8.2	8.5	13.6	17.1
Balgair												
Mean max (°C)	32.8	31.9	29.5	26.3	22.3	19.1	18.7	20.6	24.2	26.7	29.2	30.9
Mean min (°C)	16.3	16.7	14.8	11.9	9.0	6.1	5.2	5.9	8.3	10.5	12.8	14.7
Mean rainfall (mm)	21.1	27.7	30.8	21.3	24.0	24.8	17.2	19.1	17.3	15.6	23.6	36.4

Laverton: Located at 28.63 °S/ 122.41 °E. Records from 1899 – 2007.

Balgair: Located at 31.09 °S/ 125.66 °E. Records from 1982 – 2007.

(Source: Bureau of Meteorology, 2007)

The mean annual rainfall for Balgair is 277.8 mm, and for Laverton 233.4 mm. The majority of rainfall for these stations occurs during the late summer months and early winter. Summer rainfall is generally associated with cyclonic rainfall extending into the interior, and this may result in heavy rainfall between January and April (Laverton received 233.6 mm in February 1995). Conversely, the region may not receive any significant rainfall during any months of the year. The lowest annual rainfall received in the area was 65.6 mm at Laverton (1928) and 140.7 mm at Balgair (1991). Rainfall between 1 July 2006 and 30 June 2007 was 236mm for Laverton, and 272mm for Balgair (BOM, 2007).

Temperature extremes are also experienced in the region, with the highest maxima at Laverton and Balgair being 46.1 °C (1957) and 47.6 °C (1991) respectively. Temperatures may fall below 0 °C



during the winter months, with the lowest minimum reaching -2.4 °C at Laverton (1969) and -5.0 °C at Balgair (2006).

2.2 Geology and Landforms

The Tropicana Gold Project is located in the Southern Great Victoria Desert Zone within the Gunbarrel Province of the Sandy Desert Region (Tille, 2006). This zone has an area of 87 550 km² and is located in the southern Arid Interior between Lake Minigwal and the South Australian border.

The Great Victoria Desert (GVD) is dominated by longitudinal sand dunes with a predominant east-west orientation and ring dunes separated by interdune corridors (or swales) and sand plains (van de Graff and Bunting, 1977). These sandplains sit at an elevation of 350-500 m AHD30, dropping to less than 300 m in the south. They contain occasional outcrops of sandstones, laterites and silcretes, some calcareous mounds, and occasional salt pans. Other landforms present are scarpland-breakaways and residuals of various forms (cuestas, mesas, buttes, stony hillocks and hills) (Tille, 2006). These are usually surrounded by stone and gravel pavements. Shallow valleys (with lakes, claypans, salt pans, calcrete platforms, sand dunes, kopi dunes and calcareous dunes) are usually a relatively minor component of the landscape.

The GVD is an active sand-ridge desert with extensive dune fields of deep Quaternary aeolian sands overlying the Gunbarrel Basin (Barton & Cowan, 2001). The western end of the GVD is underlain by the Yilgarn Craton, containing some of the oldest rocks of the Western Australian Shield, and dominated by granite with belts of greenstone rocks. Adjoining the Yilgarn Craton is the Albany-Fraser Province and its transition zone, in which Archaean rocks have been metamorphosed and intruded by granite during the Proterozoic (van de Graff & Bunting, 1977). To the east of the transition zone lie the Gunbarrel and Officer Basins.

The sedimentary rocks of the Gunbarrel Basin include sandstone, glaciogene, marine and continental siliclastic and arenite. The Gunbarrel Basin overlies the Officer Basin, a former marine trough, which comes to the surface in the north-east of the GVD, and includes conglomerate, sandstone and arenite. In the south-west of the GVD are the mesoproterozoic granite, dolerite, gabbro and ultra-basic intrusions, and archaean gneiss of an outlier of the Biranup Complex (Albany-Fraser Orogen) (Tille, 2006).

The western part of the GVD is underlain by a moderately well developed laterite crust or by ferruginised silcrete. These laterite and silcrete crusts form a resistant caprock broken in places by erosion which has carved out a typical mesa and butte topography, with flat tops and breakaways. Pediments are formed in front of the breakaways and are often covered by a thin veneer of alluvial and colluvial sediments.

The geological formations of the survey area have been described by van de Graff and Bunting (1977). The Tropicana JV tenements lie over the eastern edge of the Yilgarn Block and its transition zone with the Albany-Fraser Province. The Tropicana and Havana gold deposits are the first discovery within a new gold province located along an ancient collision zone between the Yilgarn Craton and Albany Fraser Orogen.

The following formations are present in the survey area:

- Aeolian sand or dune sand; dominant form is red quartz sand), which form seifs, longitudinal dunes and sand ridges, and interdunal corridors; secondary form is gypsum and quartz sand, which forms crescentic or lunette dunes of the eastern sides of salt lakes;



- Colluvium of silt, sand, pebbles of ferruginous laterite and silcrete which accumulate in depressions and at the foot of breakaways; and colluvium of clay, silt and sand, partly saline, occurring in trunk valleys;
- Lake deposit of gypsum, halite, clay, sand, deposited in trunk valleys from lakes that fill up temporarily after heavy rains;
- Upper part of laterite profile: white, kaolinized bed-rock; and sand with ferruginous pisoliths;
- Hybrid rocks: ademellite to gabbro;
- Outcrops of banded quartz magnetite rock: banded iron-formation (BIF);
- Layered mafic intrusion: metamorphosed garnetiferous gabbro, hornblendite; and
- Granitic neiss rocks of uncertain age.

2.3 Biogeography

The Interim Biogeographic Regionalisation for Australia categorises the Australian continent into regions of like geology, landform, vegetation, fauna and climate. The TGP is located within the GVD bioregion, (Thackway and Cresswell, 2007) (Figure2-1).and described as an active sand-ridge desert of deep Quarternary Aeolian sands with a tree steppe of *Eucalyptus gongylocarpa*, Mulga and *E. youngiana* over hummock grassland dominated by *Triodia basedowii* (McKenzie *et al.*, 2002).

At a finer scale, the area is located on the border between the Central and Shield sub-regions of the GVD.

The Central subregion of the GVD is described as:

“Arid active sand-ridge desert with extensive dune fields of deep Quaternary aeolian sands overlying Permian strata of the Gunbarrel Basin. Landforms consist of salt lakes and major valley floors with lake derived dunes. Sand plains with extensive seif dunes running east west, occasional outcropping (breakaways) and quartzite hills provide minor relief” (Barton and Cowan, 2001).

The Shield subregion of the GVD is described as:

“The western end of the Shield covers the western end of the GVD region and is underlain by Yilgarn Craton and has the highest proportion of sandplains in the bioregion. Landforms consist of salt lakes and major valley floors with lake derived dunes. Sand plains with patches of seif dunes running east west. Areas of moderate relief with out-cropping and silcrete-capped mesas and plateaus (breakaways)” (Barton and Cowan, 2001). A tree steppe of *Eucalyptus gongylocarpa*, Spinifex (*Triodia* species) and mallee (*Eucalyptus kingsmillii*, *E. youngiana*) over hummock grassland dominated by *Triodia basedowii* occur on aeolian sands, with *Acacia aneura* (mulga) and *Eremophila* and *Santalum* spp. occurring on the colluvial and residual soils. Scattered marble gum (*E. gongylocarpa*) and native pine (*Callitris*) occur on the deeper sands of the sand plains. Halophytes such as salt bush (*Atriplex*), Bluebush (*Kochia*), and samphire (*Arthrocnemum*) occur on margins of salt lakes and in saline drainage areas.

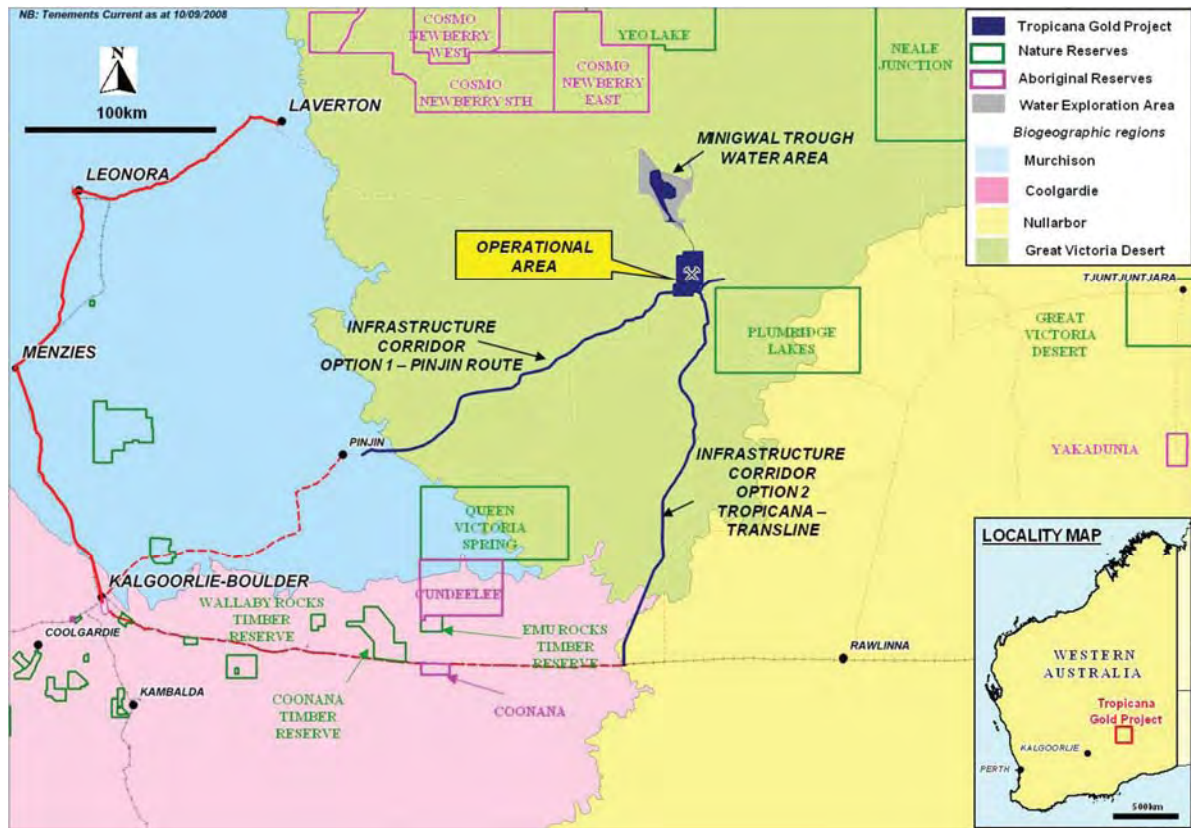


Figure2-1 Location of the Tropicana Gold Project within the IBRA Bioregions

2.4 Previous Biological Surveys

A limited number of previous surveys have been undertaken in the region around the TGP. Most have either occurred in the nearby Natures Reserves or were undertaken at a very large scale. Below is a summary of the surveys that have been undertaken within the region.

The Queen Victoria Spring, located approximately 120 km to the southwest of the project area, has been the subject of considerable botanical interest since early European exploration of the desert region, as it became an important watering site for early expeditions across the Great Victoria Desert and Nullarbor Plain. Extensive collections were made as early as 1891 by the Elder expedition, which included the naturalist Richard Helms. However knowledge of the flora and vegetation beyond the spring remained rudimentary until relatively recently due to the absence of tracks.

Flora surveys of proposed and existing reserves within the Great Sandy Desert and Great Victoria Desert were conducted by Burbidge et al. (1976) and McKenzie & Burbidge (1979) and of the Eastern Goldfields by Newby et al. (1984), while broad-scale (1:000,000) vegetation mapping of the Great Victoria Desert was carried out by Beard (1974; 1975). More recently a detailed study of the flora and vegetation communities of the Queen Victoria Spring Nature Reserve (QVSNR) was conducted by David Pearson (1994) including mapping of the vegetation of the Reserve at a scale of 1:50,000. Some searches for flora of conservation significance, particularly *Conospermum toddii* have been conducted by the DEC in Queen Victoria Spring Nature Reserve and more broadly in the regions.



Despite the considerable history of botanical survey, knowledge of the flora of the Great Victoria Desert region remains relatively incomplete due to the access constraints. Most records from the area currently held by the WA Herbarium are from opportunistic collections by travellers or botanists with a narrow focus on particular families or genera.

There are no published fine-scale floristic surveys for the Tropicana Project area. Unpublished surveys undertaken in the vicinity include a flora survey at Plumridge Lakes Nature Reserve, directly-east of Tropicana (Mattiske, 2000); and a flora and vegetation survey at Mulga Rock exploration area, approximately 100 km to the south-west of Tropicana (Martinick and Associates, 1986) adjacent to the QVSNR.

Prior to the current survey, *ecologia* had undertaken five smaller scale surveys on exploration and miscellaneous licences in the vicinity of the operational area (on behalf of the JV for exploration purposes) and a survey of the Plumridge Lakes Nature Reserve (*ecologia*, 2005a; 2005b; 2006a; 2006b; 2006c); as summarised in Table 2-2.



Table 2-2 Previous *ecologia* surveys in the vicinity of the Tropicana Gold Project

Location	Date of survey	Type of survey	No. species	DRF/Priority flora recorded	Status	Reference
Within and adjacent to the southern boundary of the Plumridge Lakes Nature Reserve	October 2004	Opportunistic collection within linear corridors totalling approximately 13.6 km and 50 m width.	140	<i>Eucalyptus ?articulata</i> <i>Thysanotus baueri</i> <i>Baeckea</i> sp. Great Victoria Desert <i>Dicrastylis nicholasii</i> <i>Isotropis ?canescens</i> <i>Daviesia ?purpurascens</i>	DRF P1 P2 P2 P2 P4	<i>ecologia</i> , 2005a
Within Tropicana Gold Project proposed operational area	August 2005	Opportunistic collection along traverses largely within dunal areas	105	<i>Micromyrtus stenocalyx</i> <i>Olearia arida</i> <i>Lepidobolus deserti</i> <i>Caesia talingka</i> ms	P2 P2 P4 Proposed listing	<i>ecologia</i> , 2005b
Track between old PNG camp and Tropicana exploration camp	February 2006	Foot and vehicular traverses of approximately 140 km of track. Opportunistic collection of potential species of conservation significance and dominant plants within vegetation communities	156	<i>Baeckea</i> sp. Great Victoria Desert <i>Micromyrtus stenocalyx</i> <i>Grevillea secunda</i> <i>Olearia arida</i> <i>Micromyrtus macredieana</i> <i>Conospermum viscidulum</i> <i>Daviesia purpurascens</i> <i>Lepidobolus deserti</i>	P2 P2 P2 P2 P3 P4 P4 P4	<i>ecologia</i> , 2006a
Plumridge Lakes Nature Reserve Bypass track (Plumridge east-west Track to Cable Haul Rd track)	April 2006	Foot and vehicular traverses of approximately 140 km of track. Opportunistic collection of potential	166	<i>Conospermum toddii</i> <i>Dicrastylis nicholasii</i> <i>Micromyrtus stenocalyx</i>	DRF P2 P2	<i>ecologia</i> , 2006b



Location	Date of survey	Type of survey	No. species	DRF/Priority flora recorded	Status	Reference
		species of conservation significance and dominant plants within vegetation communities		<i>Grevillea secunda</i> <i>Olearia arida</i> <i>Micromyrtus macredieana</i> <i>Daviesia ?purpurascens</i> <i>Lepidobolus deserti</i>	P2 P2 P3 P4 P4	
Area of approximately 27km ² within the proposed Tropicana operational area	July 2006	Foot traverses in a grid pattern searching for specific flora of significance. Dominant taxa from vegetation community types were also collected.	115	<i>Dicrastylis nicholasii</i> <i>Olearia arida</i> <i>Lepidobolus deserti</i>	P2 P2 P4	<i>ecologia</i> , 2006c



Three additional surveys of the surrounding areas have subsequently been conducted using both transect based searching, quadrat based sampling and in some instances multivariate analysis of community types. These surveys provide supplementary knowledge of the vegetation communities within the bioregion:

Table 2-3 Broader surveys in the vicinity of the TGP conducted concurrently by ecologia

Location	Date of survey	Type of survey	No. species	DRF/Priority flora recorded	Status	Reference
TGP Infrastructure Corridor – Cable Option	July 2007	Linear survey from the Trans Australian Railway line to the existing Tropicana exploration camp. Opportunistic and quadrat based collection and vegetation mapping	372	<i>Dampiera eriantha</i>	P1	<i>ecologia</i> , 2009a
				<i>Baeckea sp. Great Victoria Desert (A.S. Weston 14813)</i>	P2	
				<i>Dicrastylis nicholasii</i>	P2	
				<i>Grevillea secunda</i>	P2	
				<i>Isotropis ?canescens</i>	P2	
				<i>Malleostemon sp. Officer Basin</i>	P2	
				<i>Olearia arida</i>	P2	
				<i>Physopsis chrysotricha</i>	P2	
				<i>Dicrastylis cundeeleensis</i>	P3	
				<i>Microcorys macredieana</i>	P3	
				<i>Micromyrtus stenocalyx</i>	P3	
				<i>Comesperma viscidulum</i>	P4	
				<i>Daviesia purpurascens</i>	P4	
<i>Lepidobolus deserti</i>	P4					



Location	Date of survey	Type of survey	No. species	DRF/Priority flora recorded	Status	Reference
TGP Minigwal Water Supply area and pipeline corridor	April 08	Combination of linear corridor and quadrat based collection within a 400 km ² polygon directly north of the TGP		<i>Dicrastylis nicholasii</i> <i>Olearia arida</i> <i>Acacia eremophila</i> numerous-nerved variant <i>Lepidobolus deserti</i>	P2 P2 P3 P4	<i>ecologia</i> , 2008
TGP Rare Flora Search of the Operational Areas	Oct 07, Jul 08, Nov 08	Series of targeted searches for flora of conservation significance to derive estimates of Priority flora population size based on transects in particular vegetation communities inside and outside areas of proposed impact	N/A	<i>Conospermum toddii</i> <i>Dampiera eriantha</i> <i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813) <i>Baeckea</i> sp. Sandstone <i>Dicrastylis cundeeleensis</i> <i>Dicrastylis nicholasii</i> <i>Malleostemon</i> sp. Officer Basin (D. Pearson 350) <i>Olearia arida</i> <i>Acacia eremophila</i> numerous-nerved variant <i>Microcorys macredieana</i> <i>Micromyrtus stenocalyx</i> <i>Daviesia purpurascens</i> <i>Lepidobolus deserti</i>	DRF P1 P2 P2 P2 P2 P2 P2 P3 P3 P3 P4 P4	<i>ecologia</i> , 2009b



2.5 Land use History

The Tropicana project area and much of the GVD is vacant crown land. The nearest conservation reserves are Plumridge Lakes Nature Reserve, an area of 308,990 ha 15km to the south-east, and Queen Victoria Spring Nature Reserve, an area of 272,598 ha approximately 120 km to the south west-of the southeastern boundary. The largest area of Aboriginal land under native title in the vicinity is registered with the Spinifex people. This native title area is situated on the Western Australian border with South Australia, south east of the Tropicana area.

Mineral Exploration was undertaken at the Mulga Rock Uranium deposit during the 1980's, a location approximately 150km south west of Tropicana. Interest has been renewed in this area and tenements are currently undergoing uranium exploration.

There is no Land Systems Classification publication for the TGP area or the Great Victoria Desert.



3.0 SURVEY METHODS

3.1 Guiding Principles

The survey methods adopted by *ecologia* were formulated on the basis of:

- The Western Australian Environmental Protection Authority's (WA EPA) Position Statement No. 3 with regard to terrestrial biological surveys as an element of biodiversity protection (EPA, 2002);
- The WA EPA Guidance Statement 51, with regard to terrestrial flora and vegetation surveys for environmental impact assessment (EPA, 2004); and
- Consultation with regional Department of Environment and Conservation (DEC) staff and other relevant government officers.

The survey area occurs in the Eremaean Botanical Province and is situated on the border of two biogeographic sub regions; Great Victoria Desert Shield (GVD1) and Central Great Victoria Desert (GVD2) (IBRA, 2000). Based on the existing regional modification and loss of biodiversity, the high sensitivity of these bioregions to further loss and the large scale of the proposed impact, *ecologia* and the JV determined that a Level 2 survey was required in accordance with the EPA Guidance Statement No 51 (EPA, 2004). The scope of investigation dictated by a Level 2 survey, as prescribed in Guidance Statement 51 is:

- Background research. To gather background information on the footprint or target area (i.e. previous literature, data and map based information).
- Reconnaissance. To verify the accuracy of the background information, further delineate and characterise the flora and range of vegetation units present in the footprint and to identify potential impacts.
- Detailed Survey. To enhance the level of knowledge of the flora and vegetation at the local scale and its local context or significance (if the context at a broader scale was well known).
- Comprehensive Survey. To enhance the knowledge of the context or significance of the flora and vegetation found in the footprint at the sub-regional scale (where there was only general knowledge of the context at this scale).

Surveys at Level 2 require one or more visits to the sites in the main flowering season and visits in other seasons. Replication of plots in each vegetation unit is required to thoroughly sample the flora and all the vegetation units over their full extent in the target area and to enable the production of maps of these vegetation units and the vegetation condition at an appropriate scale.

3.2 Field Methods

The vegetation and flora of the area were surveyed during the initial phase from the 7th to the 17th of November 2006. The second phase of the survey was conducted from the 8th to the 15th of June 2007, and 2nd to the 16th of July. Additional data of rare flora locations collected during the targeted surveys detailed in Tables 2.2 and 2.3 were incorporated into the assessment



3.2.1 Detailed Floristic Survey Sites

The field surveys involved quadrat-based and opportunistic floristic sampling and targeted rare flora and declared weed surveys. They also involved the description and mapping of vegetation via the ground-truthing of aerial photographs and linked field traverses. The data matrix detailing the presence/absence of species and their abundance in the quadrates was analysed using multi-variate statistical methods, and resulted in a classification of the vegetation types present on the mine site; these vegetation types were mapped at a scale of 1:20 000. Voucher specimens of vascular flora species were collected where appropriate and identified using current literature with reference to the WA Herbarium collection. Documented voucher specimens of all flora of conservation significance will be lodged with the WA Herbarium.

Survey quadrates were established in the project area such that the major vegetation assemblages and proposed areas of disturbance were sampled. Eighty eight sampling quadrates were established during the initial phase of the Tropicana EIA within the area of major impact. During the second phase the survey area was considerably enlarged and a total of 165 quadrates were surveyed, of which 49 were previously sampled in Phase 1. Thus in total 204 quadrates were assessed during the survey

The location of quadrates was selected on the basis of aerial photography, topographical features and field observations such that the full array of vegetation types was represented. Sampling sites were 20 m by 20 m, or an area of 400 m² in narrow habitats such as dunes. At each quadrat a comprehensive list of flora species, vegetation types, life-form strata, percentage cover of individual species, surface soil type, litter cover, fire history and any disturbance was recorded.

A search of the Department of Environment and Conservation's Threatened Flora Database, which lists species protected under the *Wildlife Conservation Act 1950*, the *Environment Protection and Biodiversity Conservation Act 1999* and DEC Priority Flora, was undertaken to determine species of conservation significance previously recorded in the area. Subsequent targeted surveys were undertaken for these species, and other DRF and Priority flora species known to occur in the Great Victoria Desert.

Plant species were either identified in the field, or specimens were collected for later identification and verification. Vegetation type, life-form strata and percentage cover of each stratum were recorded based upon Muir's (1977) classification system. The condition of each site was evaluated with respect to the extent of disturbance and weed invasion. Nomenclature and taxonomy follow Hnatiuk (1990) and the conventions currently adopted by the Western Australian Herbarium, as cited in Florabase (2008).

3.2.2 Opportunistic Collections

In addition to sampling sites, opportunistic collections were carried out at the perimeters of quadrates, during foot traverses between some sites and vehicle travel throughout the area. These traverses were used to confirm plant community boundaries and to capture species not present within sampling sites within the floristic inventory. The total species inventory was also supplemented by any species collected from other surveys within the TGP detailed in Table 2-3.

3.2.3 Vegetation Mapping

Vegetation mapping is the delineation of plant communities into groups or associations. The distinctive characteristics that these groups or associations share include features such as species dominance, stratum structure and species composition. To delineate plant vegetation associations in the survey area, a combination of ground-truthing and cluster analysis was employed. Data



collected within quadrates was analysed using the multivariate programme SYSTAT™, using both presence/absence and cover-weighted records with Pearson complete linkage analysis to produce dendrograms showing the similarities between sites. This method provides an objective means of defining vegetation communities and provides insight into the hierarchical relationship between clusters based on the degree of similarity in species composition and abundance. The boundaries of vegetation associations and sub-associations as determined by the analysis and ground truthing were plotted using aerial photography at a scale of 1:20,000 to define the vegetation boundaries. The units plotted were described using an abbreviated form of the National Vegetation Information System (NVIS) structural formation terminology (Appendix A)

3.3 Survey Limitations and Constraints

According to the EPA Guidance Statement for Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment in Western Australia (Environmental Protection Authority, 2004a), flora and vegetation surveys may be limited by factors including a lack of pre-existing information, inappropriate survey timing or intensity, or access or resource constraints. An assessment of the survey constraints is detailed in Table 3-1

Table 3-1 Flora and Vegetation Survey Limitations

Aspect	Constraint	Comment
Sources of information and availability of contextual information (<i>i.e.</i> pre-existing background versus new material)	Some constraints	Several recent targeted flora surveys have been completed in the vicinity of the TGP, as detailed in Table 2-2 and Table 2-3. Although a number of broad surveys have been conducted in the Great Sandy Desert and the Great Victoria Desert, many species remain poorly collected such that knowledge of their range and abundance is incomplete. Regional mapping of the vegetation complexes of the area is limited to Beard's 1:1,000,000 mapping (1974) and to the 1:50,000 mapping of the Queen Victoria Spring Nature Reserve (Pearson, 1994), limiting interpretation of the regional significance of vegetation communities to some degree.
The scope (<i>i.e.</i> what life forms were sampled)	Adequate	Vascular taxa were assessed. The vegetation present was evaluated using aerial photography at a scale of 1:20,000.
Proportion of flora collected and identified (based on sampling, timing and intensity)	Adequate	A combined total of 446 taxa were recorded during the two phases. Forty five collections could not be identified beyond genus level due to a lack of reproductive material, whilst an additional nine taxa were identified to species level with some degree of uncertainty. This proportion (10%) of incomplete identifications, whilst moderately high relative to surveys of similar scale within for example the Pilbara, is comparable to the proportion reported by Pearson (14%) in the QVSNR. Species accumulation curve (Coleman) analysis estimates that 90% of the total floristic inventory was collected.



Aspect	Constraint	Comment
Completeness and further work which might be needed (e.g. was the relevant area fully surveyed)	Adequate	204 quadrates were located in an area of approximately 1,356 km ² . Portions of the survey area in the north western and south eastern quadrants were less intensively surveyed due to limited access. Some areas were not accessible because of the presence of heritage sites (mainly rocky areas and some clay pans). However the distribution of quadrates was adequate to map the vegetation communities and to obtain a near complete floristic inventory. Surveys conducted concurrently to systematically assess the proposed operational area for populations of threatened flora species within the TGP will be incorporated into the PER.
Mapping reliability	Adequate	Mapping was executed at a scale of 1:20,000 using multivariate analysis to confirm the validity of vegetation types. Digital topographic data was also used to complement aerial photography when defining the location of dunal vegetation.
Timing/weather/season/cycle	Adequate	Phase 1 of the survey was conducted in a year of low rainfall. However Phase 2 was conducted following significant rainfall and was considered opportune timing given the sporadic pattern of rainfall in the region. Rainfall for the nearest stations of Laverton and Balgair for the period July 2006 to June 2007 was 3-4mm above the mean.
Disturbances (e.g. fire, flood, accidental human intervention)	Some influence	A significant proportion of the survey area has been subject to recent (i.e. within the last five years) fire, particularly in the south west and north west of the project area. The extent of recent fires influenced interpretation of the aerial photography and statistical analysis of data but did not preclude the delineation of vegetation communities. Whilst the area of geological interest (less than 1% of the survey area) contains an extensive network of exploration tracks, large parts of the area are relatively undisturbed
Intensity (in retrospect, was the intensity adequate?)	Adequate	The intensity of these surveys is considered to be adequate.
Resources	Adequate	Resources were adequate for the botanical survey and vegetation mapping. A total of 18 and 42 person days were expended in the field for Phases 1 and 2 respectively.
Access problems	Minor constraint	Access to some areas was constrained by lack of vehicle tracks. Quad bikes were used to improve access, though still less comprehensively than elsewhere in the survey area. All vegetation types, as discernible by aerial photography, were accessed.



Aspect	Constraint	Comment
Experience levels (<i>e.g.</i> degree of expertise in plant identification to taxon level)	Adequate	The Principal Botanist managing the field programme and the reporting process has 17 years experience in botanical surveys within Western Australia. All other field personnel have between three and five years of experience in field survey. Similarly the taxonomist identifying the species has been engaged in taxonomic identification for more than 15 years.



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4.0 VEGETATION ASSEMBLAGES

4.1 Broad Scale Mapping of the District Incorporating the Survey Area

The proposed operational area is situated in the Helms Botanical District, within the Eremaean Botanical Province. The district is bordered to the south by the Eucla Botanical District (Nullarbor Plain) and to the north by the Giles Botanical District. Beard (1975) described four distinct vegetation units within close proximity to and including the Operational area and adjacent JV tenements:

1. Hummock grasslands, open low tree and mallee steppe; *Eucalyptus gongylocarpa* and *E. youngiana* over *Triodia basedowii* on sandplain ($e_{19}Mre_{20}Srt_2Hi$).
2. Hummock grasslands, open low tree and mallee steppe; *Eucalyptus gongylocarpa* and *E. youngiana* over *Triodia basedowii* between sandhills. ($e_1Lre_{20}Srt_2Hi$).
3. Low woodland; *Acacia aneura* (mulga) (a_1li)
4. Hummock grasslands, open low tree steppe; *Acacia aneura* (mulga), *Casuarina pauper*(sheoak) [syn. *C. cristata*] over *Triodia basedowii* between sand ridges ($a_1c_2Lrt_2Hi$)
5. Succulent steppe; *Acacia aneura* (mulga) with *Atriplex* (Saltbush) or *Kochia* (now *Maireana*). (k_1k_2Ci).

The majority of the area is mapped as the first two of these units (Figure 4-1). Although the sand ridges are not individually mapped, Beard describes these as “the spinifex is generally replaced by ericoid shrubs and larger shrubs such as *Grevillea stenobotrya*, *Acacia* species and small trees of *Callitris* sp (probably *C. preissii*)” (Beard, 1975).

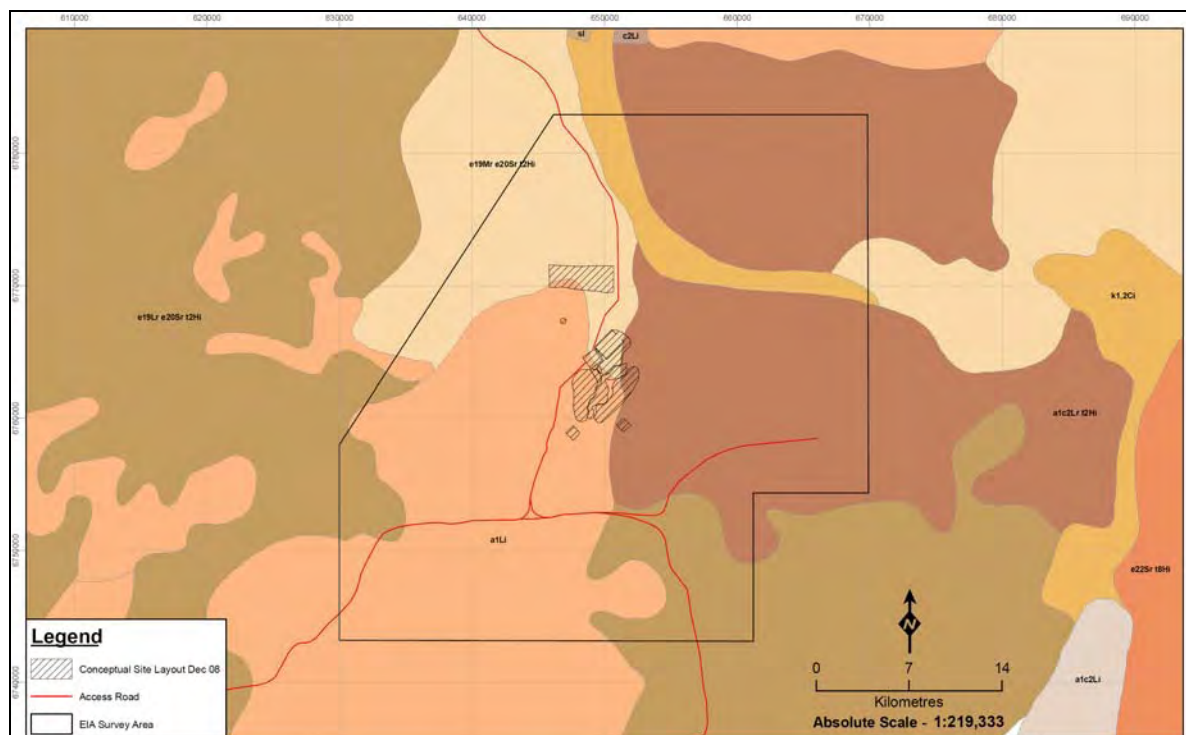


Figure 4-1 Vegetation of the Tropicana Gold Project Operation area as mapped by Beard (1975)



4.2 Vegetation Communities Present Within the Survey Area

During the current survey the vegetation of the survey area was mapped at a scale of 1:20,000 using aerial photography, ground truthing and multivariate analysis of the floristic composition and vegetation structure of quadrates. Not all vegetation communities visible at ground level and evident within the multivariate analysis could be reliably discriminated using aerial photography. Therefore the boundaries between some subtypes (for example the various mallee Eucalypts over *Triodia basedowii*, or some subtypes of claypan associations) could not be reliably extrapolated to areas not ground truthed and were not mapped, despite being described below. The fire history of the area also influenced the interpretation of the aerial photography, as some boundaries clearly visible on the photography reflected the fire history of the location but did not translate to a significant difference in floristic composition. This was particularly relevant for the extensive *Acacia aneura* woodlands within the survey area which are markedly denser at some locations according to the aerial photography but do not consistently cluster on this basis within the multivariate.

Given the above limitations, which are to be expected when mapping such a large area, it is likely that further vegetation association subtypes not readily discernible using aerial photography are present within the survey area. However the scope of the survey and scale of aerial photography available for interpretation was sufficient to enable all major community types to be delineated.

Eleven major vegetation communities, incorporating a further eighteen vegetation subtypes as described below were observed. Their distribution within the survey area is mapped in Figure 3.2:

Interdune swales and sand plains:

1. Mixed Eucalypt woodlands over open shrublands over *Triodia basedowii* hummock grasslands (e_xL.t₂H)

These woodlands are broadly distributed on the sandy plains of the survey area. The overstorey is dominated by an open to scattered stratum of mallee and tree form Eucalypts, usually with at least two species co-dominant. The most common species is *Eucalyptus trivalva*, however *E. concinna* and *E. youngiana* are also widespread, with *E. leptopoda* subsp. *elevate*, *E. effuse* and *E. gracilis* also recorded at some locations. The coniferous tall shrub or low tree *Callitris preissii* is present in low numbers, particularly at sites in which *E. youngiana* is also present. The ground cover is dominated by open to moderately dense *Triodia basedowii*, with the exception of a small number of locations with a recent burn history, at which the density of hummock grass is reduced and soft grasses such as *Eragrostis setifolia*, *Aristida contorta* and *A. holathera* form a sparse ground cover.

A number of subtypes of this vegetation community were differentiated within the statistical analysis (Figure 2.2), although their boundaries could not be distinguished with sufficient consistency to allow mapping as discrete polygons using aerial photography. These sub communities include:

(i) *Eucalyptus youngiana*, *E. trivalva* or *E. leptopoda* open mallee woodland over *Acacia murrayana* tall open shrub stratum of over *Triodia basedowii* hummock grassland.(e_xL.a₂₀S.t₂H)

The most extensive representation of this subtype was recorded the south-western corner of the lease, however elsewhere the incidence of this subtype was at too small a scale to discriminate using aerial photography. A sparse mixed mallee stratum, most



commonly of *Eucalyptus trivalve* but occasionally *E. youngiana* and/or *E. leptopoda* occurs above an open shrub stratum in which the tall shrub *Acacia murrayana* is dominant, above a lower stratum dominated by *Leptosema chambersii*, *Dicrasyllis brunnea* and *Keraudrenia velutina* subsp. *elliptica*. The low shrub *Leptosema chambersii* is also common.

A mean species richness of 11.8 ± 1.49 (std. error, $n = 4$) was recorded for the Phase 2 quadrates placed within this vegetation type.

The Priority taxon *Dicrasyllis nicholasii* (P2) was recorded at two quadrates within this vegetation type.

- (ii) *Eucalyptus youngiana* open woodland over *Callitris preissii* sparse tall shrubland over mixed open shrubland over *Triodia basedowii* open to moderately dense hummock grassland. (e₂₀P₂L.xS.t₂H)

This subtype is widespread, with quadrates surveyed from the south west and central areas of the lease. Although there is considerable variation from location to location in the composition of the shrub strata, *Duboisia hopwoodii*, *Solanum plicatile*, *Thryptomene biseriata* and *Aluta maisonneuvei* subsp. *auriculata* are typically present at open coverage. *E. trivalva* is also present at some locations. The presence of *Codonocarpus cotinifolius* in all quadrates probably reflects the frequency of bushfires through this area rather than an affiliation of this taxon with other species in the subtype.

A mean species richness of 17.8 ± 1.16 (std. error, $n = 5$) was recorded for the quadrates placed within this vegetation type.

The Priority taxon *Dicrasyllis nicholasii* (P2) was recorded at one Phase 2 quadrate within this vegetation type

- (iii) *Eucalyptus trivalva* mallee woodland over *Acacia* and *Eremophila* dominated shrubland over *Triodia basedowii* open hummock grassland (e₇₀L.a₁er_xS.t₂H)

This subtype is particularly widespread, with quadrates recorded throughout the entire survey area. Although *E. trivalva* is the most common species, *Eucalyptus concinna*, *E. effusa* and/or *E. youngiana* are also present at some locations within the mallee over storey. *Acacia aneura* is abundant within the shrub stratum, with *Eremophila glabra* subsp. *glabra*, *E. alternifolia*, *Acacia colletioides* and *A. burkittii* also widespread at sparse to open coverage above a sparse lower shrub stratum in which *Ptilotus obovatus*, *Scaevola spinescens* and *Solanum plicatile* are widespread.

A mean species richness of 21.3 ± 1.41 (std. error, $n = 7$) was recorded for the Phase 2 quadrates placed within this vegetation type.

The Priority taxon *Olearia arida* (P2) was recorded at one quadrate within this vegetation type.

2. *Eucalyptus gonqylocarpa* (marble gum) open woodland over *Triodia desertorum* or *T. basedowii* open hummock grassland (e₁₉L.t₂t₇H)

This association is broadly distributed in the south west and west of the survey area, occurring in the swales between dunes and also on the south dune slopes. Two sub-types are present:



- (i) *Eucalyptus gongylocarpa* open woodland over *Dodonaea viscosa* subsp. *angustissima*/*Eremophila platythamnus* subsp. *platythamnus* open shrubland over *Triodia desertorum* or *T. basedowii* open hummock grassland. (e₁₉L.d₃er₁S.t₂t₇H)

This subtype is widespread through the central portion of the survey area. It appears to be associated with dunal landforms which are less extreme in slope, occurring both on the slopes of low dunes and the swales and plains between the generally lower dunes in this area. *E. gongylocarpa* forms a sparse to open tree stratum above an open shrub stratum in which the shrubs *Dodonaea viscosa* subsp. *angustissima* and *Eremophila platythamnus* subsp. *platythamnus* are major components. Other species common in the shrub stratum include *Acacia ligulata*, *Alyogyne pinoniana*, *Callitris preissii*, *Senna artemisioides* subsp. *petiolaris*, *S. pleurocarpa* var. *pleurocarpa*, *Keraudrenia velutina* subsp. *elliptica* and *Scaevola basedowii*. *Anthotroche pannosa*, which characteristically occurs on the dunes, also extends into this vegetation community at some locations. The open ground cover is dominated by either *Triodia basedowii* or *T. desertorum*.

A mean species richness of 18.1 ± 1.38 (std. error, $n = 10$) was recorded for the Phase 2 quadrates placed within this vegetation type.

The Priority flora *Olearia arida* (P2) and *Dicrasyllis nicholasii* (P2) were each recorded at two locations whilst *Microcorys macredieana* (P3) was recorded at four locations within this vegetation type.

- (ii) *Eucalyptus gongylocarpa*/*E. youngiana*/*E. concinna* open woodland over mixed open shrubland over *Triodia desertorum* open hummock grassland. (e₁₉e_xL.xS.t₇H)

This subtype occurs on the swales and basal slopes of the steeper dunes and is more widespread in the south and southwest of the survey area. The open tree stratum is comprised of sparse to open *E. gongylocarpa* above a mallee stratum of *E. concinna* or *E. youngiana*. The shrub stratum of this subtype is more varied than type (i) above, however *Callitris preissii*, *Dodonaea viscosa* subsp. *angustissima* are also widespread. Other relatively common and widespread species include *Acacia jamesiana*, *A. prainii*, *Aluta maisonneuvei* subsp. *auriculata*, *Anthotroche pannosa*, *Hannafordia bissillii* subsp. *bissillii* and *Pityrodia loricata*. At ground level *Triodia desertorum* provides open to moderate dense coverage with the tussock forming perennial herb *Lomandra leucocephala* subsp. *robusta* also consistently present on dunal slopes supporting this vegetation type.

A mean species richness of 15.9 ± 1.96 (std. error, $n = 7$) was recorded for the Phase 2 quadrates placed within this vegetation type.

The Priority taxa *Olearia arida* (P2) and *Micromyrtus stenocalyx* (P3) were each recorded at a single location within this vegetation subtype.

Longitudinal sand dunes:

3. Isolated trees of *E. gongylocarpa* over mixed shrubs and *Triodia desertorum* ± *T. basedowii* sparse hummock grasslands xS.t₂t₇H

An extensive system of seif dunes with a predominantly east-west orientation occurs in the south western quadrant of the survey area. Most dunes show a graduation of vegetation from the slopes to the crest, with lower slopes often supporting vegetation present on the surrounding swales, as



described in Type 2 above. Dune crests and upper slopes are characterized by a moderately dense to open shrub stratum of variable heights. Both *Triodia desertorum* and *T. basedowii* are widespread, with no apparent geographic trend in the distribution of each of these species across the survey area. *Triodia desertorum* tends to be more common on the crests of dunes, whilst *T. basedowii* tends to occur both on slopes and some crests.

Given the relatively large distance north to south (approximately 25 kilometres) over which the dunal vegetation was surveyed, there is surprisingly little statistical variation in the composition. A more pronounced shift in the species composition was opportunistically observed on dunes on yellow sand to the south west beyond the boundaries of the current survey area.

Most species recorded on the dunes exhibit relatively high habitat specificity. Twenty five percent of the species recorded were recorded exclusively in this habitat.

Although many species occur throughout the dunes, some shift in composition is observed as the height of the dunes declines, although this shift cannot be reliably distinguished in the aerial photography and was not mapped. On this basis the dunal vegetation was separated into two subtypes.

- (i) Mixed, open, tall shrubland over *Daviesia grahamii*/*Pityrodia loricata*/*Chrysocephalum puteale* low shrubland over sparse to open *Triodia desertorum* or *T. basedowii* hummock grassland and *Lomandra leucocephala* subsp. *robusta*. (xS.xZ.t₇H₁₁)

Eucalyptus gongylocarpa is occasionally present above a variable height shrub stratum. Whilst the mid-height shrubs *Thryptomene seriata* and *Anthotroche pannosa*, which are widespread in both subtypes, are consistently present, there is considerable local variation in the dominant species of the taller shrub stratum. Locally *Allocasuarina acutivalvis*, *Grevillea stenobotrya*, *G. nematophylla* subsp. *planicosta*, *Cryptandra distigma* and *Acacia kempeana* were all recorded as dominant in the open, tall to moderate height upper stratum. The tall shrubs *Grevillea juncifolia* subsp. *temulenta* and *Callitris preissii* may also be present at low density. The lower shrub stratum composition is more homogeneous and type-specific, with *Chrysocephalum puteale*, *Daviesia grahamii*, *Pityrodia loricata* typical and *Dampiera eriantha*, *Bertya dimerostigma*, *Newcastelia hexarrhena* and *Pomax sp. desert* (A.S. George 11968) also recorded at most sites. At ground level the tussock forming perennial herb *Lomandra leucocephala* subsp. *robusta* is widespread and often abundant. The rush species *Lepidobolus deserti* is also widespread. The hummock grasses *Triodia desertorum* or *T. basedowii* provide sparse to open ground cover.

A mean species richness of 21.4 ± 1.82 (std. error, n = 10) was recorded for the Phase 2 quadrates placed within this vegetation type.

The DRF species *Conospermum toddii* was recorded from one location within this vegetation type. Four Priority taxa; *Dicrasyllis nicholasii* (P2, three locations), *Microcorys macredieana* (P3, two locations), *Micromyrtus stenocalyx* (P3, two locations) and *Lepidobolus deserti* (P4, six locations) were recorded within this vegetation subtype. *Caesia talingka*, considered likely to be listed as a Priority species in the future, was recorded from two locations

- (ii) *Callitris columellaris*/*Grevillea juncifolia* tall open shrubland over *Acacia ligulata*/*Thryptomene seriata*/*Anthotroche pannosa* open shrubland over *Triodia desertorum* or *T. basedowii* hummock grassland. (p₁g₁L.xS.t₇H)



As in subtype (i) above, *Eucalyptus gongylocarpa* is occasionally present. A sparse to open tall stratum of the low trees/shrubs *Callitris columellaris* and/or *Grevillea juncifolia* is present above an open mid height shrub stratum in which *Acacia ligulata*, *Thryptomene seriata* and *Anthotroche pannosa* are common. Other shrubs locally common but not consistently present in this stratum include *Acacia heteroneura* var. *jutsonii*, *Bertya dimerostigma*, *Eremophila platythamnos* subsp. *platythamnos*, *Hannafordia bissillii* subsp. *bissillii*, *Pityrodia loricata* and *Cryptandra distigma*. As in type (i) above, the tall shrubs/low trees *Allocasuarina acutivalvis* and *Callitris preissii* are occasionally present. The hummock grasses *Triodia desertorum* or *T. basedowii* were generally more dominant at ground level, with the tussock forming herb *Bertya dimerostigma* recorded only once and the rush *Lepidobolus deserti* also less widespread and abundant.

A mean species richness of 16.0 ± mean species richness was recorded for the Phase 2 quadrates placed within this vegetation type.

Three Priority taxa; *Dicrasyllis nicholasii* (P2, one location), *Microcorys macredieana* (P3, two locations), and *Lepidobolus deserti* (P4, three locations) were recorded within this vegetation subtype.

Saline clay pans and associated saline loam plains.

A saline drainage system flows from the northern boundary of the survey area, flowing north west to south east. This system is a continuation of the Lake Rason saline drainage system which occurs approximately 27 km north of the lease boundary. The following vegetation types were recorded:

4. Undulating plains: *Eucalyptus concinna* open mallee woodland over sparse to open low shrubs over *Triodia scariosa* open hummock grassland (e₇₁L.xZ.t₈H)

This vegetation type is relatively widespread in the south eastern portion of the lease. *E. concinna* is consistently present within the overstorey, with *E. trivalva*, *E. horistes* and *Callitris columellaris* also present at some locations. The low, sparse shrub stratum is variable but low in diversity. *Westringia rigida*, *Senna artemisioides* subsp. *petiolaris* and *Halgania cyanea* var. *Allambi* Stn (B.W. Strong 676) are relatively widespread. *Acacia burkittii*, *Daviesia benthamii* subsp. *acanthoclona* and *D. purpurascens* are common at particular locations but are not typical of all areas. At ground level *Triodia scariosa* forms an open cover with few other grasses or herbs present.

A relatively low mean species richness of 10.6 ± 0.84 (std. error, n = 7) was recorded for the Phase 2 quadrates placed within this vegetation type.

The Priority taxa *Dicrasyllis nicholasii* (P2) and *Daviesia purpurascens* (P4) were each recorded at one location within this vegetation type.

5. Clay Pan: Isolated shrubs of *Acacia nyssophylla*/*Grevillea sarissa* over open herbs and grasses. (a₃₃g₃S.xG)

This vegetation type was recorded at a small clay pan in the south of the project area. Isolated shrubs of *Acacia nyssophylla* and *Grevillea sarissa* are present above an open herb and soft grass ground cover in which *Zygophyllum aurantiacum* and *Enneapogon caerulescens* are



dominant. Other herbs present at lower densities include *Euphorbia drummondii*, *Zygophyllum eremaeum*, *Eragrostis dielsii* and *Sclerolaena symoniana*

At the margin of the clay pan a narrow band of vegetation in which a sparse overstorey of *Eucalyptus eremicola* subsp. *eremicola* occurs above a sparse moderate height shrub stratum of *Senna artemisioides* subsp. *petiolaris*, *Acacia nyssophylla* and *Eremophila scoparia*. At ground level the sparse cover of *Triodia scariosa* is interspersed with herbs such as *Sida spodochroma*, *Zygophyllum aurantiacum* and an unidentified (due to insufficient material) *Maireana* sp.

A relatively low mean species richness of 9.5 ± 0.50 (std. error, $n = 2$) was recorded for the Phase 2 quadrates placed within this vegetation type.

No Priority taxa were recorded within this vegetation type.

6. Major saline clay pan complex

A large saline clay pan complex occurs in the northern portion of the survey area, in which the saline clay loams range from a white to grey-brown. Whilst they share the characteristic of being dominated by halophytic taxa, primarily from the family Chenopodiaceae, the floristic composition is extremely heterogeneous, as indicated by statistical analysis (Figure 2.2), in which the small clusters of quadrates within the supergroup were isolated from each other at high levels of dissimilarity. A number of subtypes were identified on this basis, the first three of which were amalgamated for mapping as they could not be distinguished sufficiently in aerial photography.

(i) White clay pans and marginal vegetation: Isolated trees/tall shrubs of *Callitris preissii* over isolated shrubs and sparse herbs. (p₂SxZ).

These clay pans are typically low in species diversity. *Callitris preissii* forms an open upper stratum with occasional shrubs of *Atriplex nummularia* and *Daviesia benthamii* subsp. *acanthoclona*. At ground level a sparse cover of *Maireana pentatropis*, *Eragrostis pergracilis* and *Zygophyllum eremaeum* is present. The white clay evidently provides an attractive habitat for rabbits, as all of the areas investigated were heavily disturbed, with some areas heavily grazed and hollow underfoot from extensive warrens.

Only six species were recorded in the single Phase 2 site located in this subtype. The low number of species recorded is probably a product of both the mineral composition of the soil and the prevalence of rabbits locally.

At the margins of the clay pan the overstorey includes both *Callitris preissii* and mallee Eucalypts such as *E. horistes* and *E. gracilis*. In addition, the coverage of shrubs increases and becomes more diverse, with *Baeckea* sp. *Gt. Victoria Desert* (A.S. Weston 14813), *Dodonaea viscosa* subsp. *angustissima*, *Eremophila scoparia*, *Senna artemisioides* subsp. *petiolaris*, *Maireana sedifolia* and *Alectryon oleifolius* subsp. *canescens* present in addition to *Atriplex nummularia* and *Daviesia benthamii* subsp. *acanthoclona*. An open cover of soft grasses is present, with *Eragrostis pergracilis* most common.

Fourteen species were recorded in the single Phase 2 site located at the margin of this subtype.



One Priority species, *Baeckea* sp. Gt. Victoria Desert (A.S. Weston 14813) (P2) was recorded in the fringing vegetation of this complex.

- (ii) Grey to brown clay pans: Dwarf scrub dominated by *Tecticornia* spp over *Eragrostis pergracilis*. (k_xZ)

The central areas of these pans are also extremely low in diversity. A moderately dense to open cover of the low halophytes *Tecticornia halocnemoides* and *T. pruinosa* is present above a sparse cover of *Eragrostis pergracilis*.

An exceptionally low species richness of 2.5 ± 0.50 (std. error, $n = 2$) was recorded from the Phase 2 quadrates surveyed within these clay pans.

No Priority species were recorded within this subtype.

- (iii) Broad, shallow, pale brown, sandy-clay pans. Open *Chenopodium nitrariaceum*/*Muehlenbeckia florulenta* shrubland over moderately dense grasses and sedges ($k_4mu_1Z.G$)

This subtype was observed to the south of the main saline channel on less defined but still cracking-clay pans. An open shrub stratum of *Chenopodium nitrariaceum* and *Muehlenbeckia florulenta* occurs above a moderately dense ground cover dominated by *Eragrostis australasica* and *E. setifolia*. The sedge *Eleocharis pallens*, herb *Centipeda pleiocephala* and the small rhizomatous herb *Marsilea hirsutus* also provide sparse coverage.

Seven species were recorded in the single Phase 2 quadrate within this subtype, none of which have Priority status.

- (iv) Pale orange to orange clay pans: Low open to sparse shrubland dominated by *Frankenia cinerea*/*Atriplex vesicaria* over sparse *Eragrostis pergracilis*/*Aristida contorta* grassland. (k_1k_3Z)

This subtype occurs extensively at the outer margins of the major clay pans. It is typified by a dwarf shrub stratum dominated by *Frankenia cinerea* and *Atriplex vesicaria*. Variable degrees of additional cover are provided by the shrubs *Frankenia secunda*, *Tecticornia indica* subsp. *bidens*, *H. halocnemoides*, *H. aff.undulata*, *Frankenia fecunda*, *Cratystylis subspinescens*, *Rhagodia eremaea*, *Muehlenbeckia florulenta*, *Maireana glomerifolia*, *Sclerolaena eurotioides* and *Solanum orbiculatum* subsp. *orbiculatum*. At ground level a sparse layer of soft grasses is usually dominated by *Eragrostis pergracilis*, with other less abundant but widespread species *Aristida contorta*, *Eragrostis dielsii*, *E. eriopoda*, *Enneapogon polyphyllus*, *E. caerulescens* var. *caerulescens* and *Enteropogon ramosus*.

A species richness of 12 ± 2.29 (std. error, $n=5$) was recorded from the Phase 2 quadrates surveyed within this subtype.

No Priority taxa were recorded within this vegetation type.

- (v) Shallow depressions and areas fringing some claypans: *Melaleuca interioris* tall shrubland over sparse chenopod shrubland over sparse grassland ($m_7S.k_xZ$)

This vegetation type was recorded at only two locations but may occur in small patches elsewhere at the margins of the major clay pan system. It is typified by a



moderately dense tall to medium height shrubland of *Melaleuca interioris*, a species not recorded at any other location to date within the survey area. Other shrubs occasionally present include *A. aneura*, *A. sibirica*, *A. rigens*, *Senna artemisioides* subsp. *petiolaris*, *Eremophila glabra* subsp. *glabra*, *Muehlenbeckia florulenta* and *Dodonaea viscosa* subsp. *angustissima*. A sparse lower stratum includes *Atriplex vesicaria*, *Olearia decurrens*, *Rhagodia eremaea*, *Chenopodium desertorum* subsp. *rectum*, *Ptilotus obovatus*, *Maireana tomentosa* and *M. villosa* above a sparse layer of soft grasses dominated by *Enteropogon ramosus*.

A mean species richness of 12.3 ± 1.0 (std. error, n=2) was recorded from the Phase 2 quadrates surveyed within these clay pans.

No Priority taxa were recorded within this vegetation type.

- (vi) Plains and gentle hill slopes at margins of saline complex: *Casuarina pauper* ± mallee Eucalypts sparse to open woodland over *Dodonaea viscosa* subsp. *angustissima*/*Senna artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses (c₂e_x.xS)

This subtype is widely distributed at the margins of the saline clay pan complex. The mallee trees *Eucalyptus gracilis* and *Eucalyptus effusa* are frequently co dominant with the tree *Casuarina pauper* above an open mixed height stratum in which *Dodonaea viscosa* subsp. *angustissima*, *Atriplex vesicaria* and *Chenopodium desertorum* subsp. *rectum* are typical, with *Senna artemisioides* subsp. *petiolaris*, *Myoporum platycarpum* and *Alectryon oleifolius* subsp. *canescens* also relatively widespread and abundant. Other shrubs which are locally abundant but less typical include *Cratystylis subspinescens* and *Eremophila glabra* subsp. *glabra*. The sparse to scattered ground cover of grasses and herbs is of variable composition, with the soft grasses *Aristida holathera* var. *holathera*, *Enneapogon polyphyllus* and *Eriachne helmsii*, hummock grass *Triodia basedowii* and herb *Zygophyllum eremaeum* all locally abundant but not universally present.

A mean species richness of 13.3 ± 0.75 (std. error, n=4) was recorded from the Phase 2 quadrates surveyed within these clay pans.

No Priority taxa were recorded within this vegetation type.

7. Clay loam Plains: *Acacia aneura* woodlands over open grassland ± *Triodia basedowii* (a₁L.G)

Open to moderately dense woodlands and shrublands dominated by *Acacia aneura* are widespread throughout the survey area. Extensive and frequent bushfires have resulted in localised changes to the maturity and density of the *A. aneura* upper stratum (with relatively minor shifts in overall composition) which are readily discernible using aerial photography. However there are also shifts in the composition of this type (particularly in the shrub strata) which, although more difficult to discriminate using aerial photography, can be discerned at ground level and by multivariate analysis:

- (i) Open *Acacia aneura*/*Eucalyptus* spp. woodland/shrubland over sparse mixed shrubland over open to closed grassland ± *Triodia basedowii* (a₁e_xL.G)

This subtype is widespread throughout the northern and eastern portions of the survey area. *Acacia aneura* occurs at sparse to open densities both as a low tree and as a tall to moderate height shrub. Mallee Eucalypts, particularly *Eucalyptus trivalva* are occasionally co dominant in the overstorey. The sparse shrubland is of mixed



composition and height, with *Ptilotus obovatus* and *Solanum lasiophyllum* the only shrubs consistently present, with *S. ellipticum* and *Acacia tetragonophylla* moderately widespread. The open to moderately dense ground cover is generally dominated by soft grasses, particularly *Aristida contorta* and *Enneapogon polyphyllus*. *Triodia basedowii* is present from sparse to open coverage at some locations.

A mean species richness of 16.1 ± 1.14 (std. error, $n = 18$) was recorded from the Phase 2 quadrates surveyed within this subtype.

No Priority taxa were recorded within this vegetation type.

(ii) Moderately dense to dense *Acacia aneura* woodland over isolated shrubs over isolated to open *Triodia basedowii* and soft grasses. (a₁L.t₂HG)

This sub-type is distributed throughout the northern half of the survey area on flat clay plains in areas which are long unburnt. A tall, moderately dense to dense woodland of *A. aneura* occurs above isolated shrubs, the most widespread of which is *Eremophila latrobei* subsp. *latrobei*. Other shrubs occasionally present include *Solanum lasiophyllum*, *S. plicatile*, *Aluta maisonneuvei* subsp. *auriculata*, *Acacia ramulosa* var. *ramulosa* and *Eremophila exilifolia*. At ground level a sparse to open cover of *Triodia basedowii* and the soft grasses *Monachather paradoxus* and *Eragrostis setifolia* is present, with *Eriachne mucronata* and *Aristida contorta* occasionally present.

A mean species richness of 10.1 ± 1.07 (std. error, $n = 9$) was recorded from the Phase 2 quadrates surveyed within this subtype.

The Priority 2 taxon *Dicrasyllis nicholasii* was recorded at one location within this vegetation subtype.

(iii) *Acacia aneura* woodland over *Aluta maisonneuvei* subsp. *auriculata*/ *Acacia ramulosa* var. *ramulosa*/ *Eremophila forrestii* subsp. *forrestii* shrubland over *Triodia basedowii* hummock grassland. (a₁L.a₁a₉S.t₂H)

This vegetation sub-type is widespread from the central areas to the south western boundary, associated with the swales and undulating plains between dunes. It is characterised by an open to moderately dense tree canopy of *Acacia aneura* with occasional Eucalypt trees or mallees as present in adjoining woodlands. The distinguishing characteristic is the open to moderately dense tall to medium height shrubland of *Acacia ramulosa* and *Aluta maisonneuvei* subsp. *auriculata*, with *Eremophila forrestii* subsp. *forrestii* and *Prostanthera sericea* often also present. Other shrubs which are locally abundant although not consistently present include *Acacia sibina*, *A. kempeana*, *Bertya dimerostigma*, *Eremophila punctata* and *Hannafordia bissillii* subsp. *bissillii*. Ground cover is in most instances sparse to scattered, generally dominated by hummocks of *Triodia basedowii*, although *T. desertorum* is occasionally present. Where present tussock grass composition is variable, with *Eragrostis setifolia* the most common and abundant species

A mean species richness of 11.0 ± 0.97 (std. error, $n = 7$) was recorded from the Phase 2 quadrates surveyed within this subtype.



The Priority 2 taxon *Baekkea* sp. Gt. Victoria Desert (A.S. Weston 14813) was recorded at two locations within this vegetation subtype.

8. Rocky breakaways and associated slopes: *Acacia quadrimarginea*/*Dodonaea rigida* open shrubland over sparse low shrubs over mixed sparse grassland (a₁₄S.G)

This landform and the associated vegetation is relatively scarce largely occurring in the northern portion of the study area. The vegetation is characterized by the dominance of the tall to moderate height shrub *Acacia quadrimarginea*, however at some locations *Acacia aneura* is co-dominant. Other shrubs present at lower density include *Eremophila latrobei* subsp. *latrobei*, *Dodonaea rigida*, *Ptilotus obovatus* var. *obovatus* and *Sida calyxhymenia*. Species locally abundant at some locations include *Sida fibulifera*, *S. atrovirens*, *Senna artemisioides* subsp. *artemisioides*, *Eremophila georgei* and *Keraudrenia velutina* subsp. *elliptica*. At ground level the fern *Cheilanthes sieberi* subsp. *sieberi* is widespread in niches between rocks, whilst the sparse grass cover is dominated by *Eragrostis pergracilis*, *Enteropogon ramosus* and at one location *Eriachne mucronata*.

A mean species richness of 18.5 ± 0.35 (std. error, n = 8) was recorded from the Phase 2 quadrates surveyed within this subtype.

No Priority taxa were recorded within this vegetation type.

9. *Casuarina pauper* closed to open woodland over open mixed shrubs over sparse grassland± *Triodia scariosa* (c₂L.xS.G)

This vegetation type occurs at a number of locations within the survey area, typically where there is outcropping or an abundant stony gravel of quartz and/or sandstone. It is characterized by an open to moderately dense stratum of *Casuarina pauper*, sometimes in combination with *Acacia aneura*. The open shrub stratum is relatively diverse, but commonly contains *Ptilotus obovatus* var. *obovatus*, *Scaevola spinescens*, *Maireana sedifolia*, *Dodonaea lobulata*, *Olearia muelleri*, *Acacia tetragonophylla*, *Senna artemisioides* subsp. *petiolaris*, *Sida calyxhymenia* and *Eremophila scoparia*. At ground level the sparse coverage is typically dominated by a small number of soft grasses, particularly *Enneapogon polyphyllus* and *Paspalidium basicladum*.

Although most of the relatively large number of species present within this vegetation type do not display high specificity to this rocky habitat, four herb taxa: *Maireana ?georgei*, *Sclerolaena eriacantha* and *Zygophyllum fruticosum* were only recorded from this vegetation type.

A species richness of 19.2 ± 0.29 (std. error, n = 12) was recorded for the quadrates placed within this vegetation type.

Despite the relatively high diversity, there were no Priority taxa recorded within this vegetation type.

10. Scattered trees over open low shrubs and moderately dense grassland

These relatively heterogeneous grasslands are widespread in the north and eastern portion of the study area. Two subtypes were distinguished in the multivariate analysis:

- (i) Isolated *Acacia* spp over *Ptilotus obovatus*/*Maireana* spp./*Solanum* spp. low shrubland over moderately dense grassland. (a_xL.pt₁k₂.G)



Scattered trees and shrubs of *Acacia aneura*, *A. burkittii* and *A. tetragonophylla* are present above a low shrubland dominated by *Ptilotus obovatus*, *Maireana sedifolia*, *M. turbinata*, *Solanum lasiophyllum* and *S. ellipticum*. At ground level the prostrate perennial *Sida fibulifera* is widespread within the dense bunch grassland dominated by *Enneapogon polyphyllus*, *E. caerulescens* var. *caerulescens* or *Triraphis mollis*.

The species richness of quadrates within this subtype was highly variable, with a mean richness of 16.5 ± 4.35 (std. error, $n = 4$).

No Priority taxa were recorded within this subtype.

(ii) Isolated to sparse *Acacia* shrubs over mixed low shrubs over grassland. (xZ.G)

The shrub stratum of this subtype is more heterogeneous than type (i) above. *Acacia aneura*, *A. burkittii* and *A. sibirica* are present as a scattered to sparse medium height shrub stratum over mixed sparse shrubs in which *Ptilotus obovatus*, *Rhagodia eremaea* and *Solanum lasiophyllum* were the only species consistently observed. The ground cover of moderately dense grasses is also more mixed, with *Aristida contorta*, *A. holathera* var. *holathera*, *Enneapogon polyphyllus*, *Monachather paradoxus* and *Eragrostis xerophila* are all common at common and widespread. Other species locally common but less widespread in the ground cover include the low perennials *Sclerolaena convexula*, *S. diacantha*, *Maireana villosa*, *M. tomentosa*, *Sida fibulifera* and *Abutilon otocarpum* and the grasses *Enteropogon ramosus*, *Eragrostis laniflora* and *E. eriopoda*

The species richness of quadrates within this subtype was also variable, with a mean richness of 16.0 ± 2.21 (std. error, $n = 6$).

No Priority taxa were recorded within this subtype.

11. Narrow drainage channel: *Acacia aneura* isolated trees to sparse woodland over sparse to open shrubland over *Aristida contorta*/*Enteropogon* grassland. (a₁L.k₁k₂Z.G)

A narrow drainage channel occurs near the south eastern boundary of the survey area as a continuation of the northern saline drainage system. Sparse low trees of *Acacia aneura* are present above a sparse to open shrub stratum in which *Atriplex vesicaria*, *Maireana pyramidata* and *Senna artemisioides* subsp. *artemisioides* are the dominant species. At ground level the vegetation is dominated by the tussock grasses *Aristida contorta* and *Enteropogon ramosus* however a moderately diverse array of low perennial herbs including *Salsola australis*, *Euphorbia drummondii*, *Sclerolaena patentiuspis*, *Maireana integra*, *Abutilon oxycarpum* subsp. *prostratum*, *Sida arenicola* and *Calotis hispidula* are present.

A total of eighteen species were recorded in the single site in this vegetation type. No Priority taxa were recorded.

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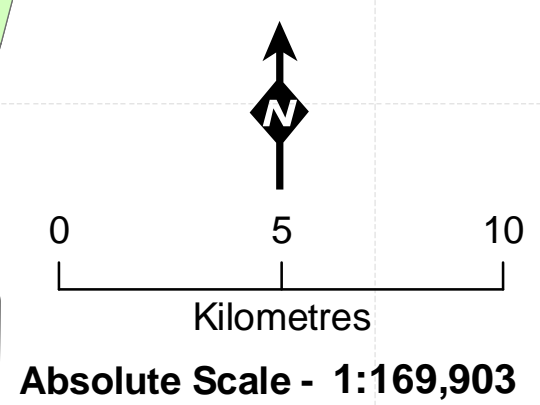
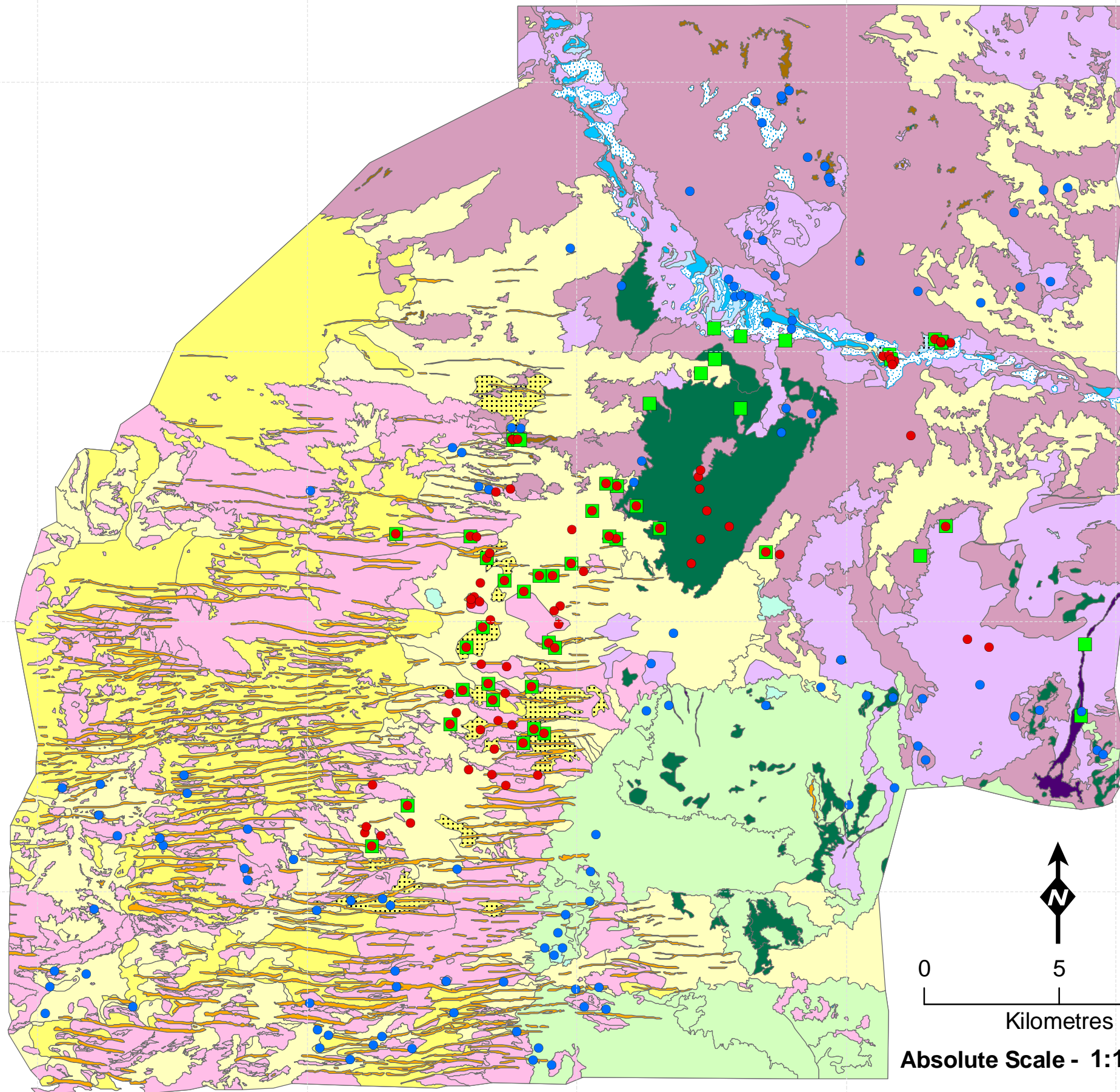
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Legend

- Phase 1 Sites
- Phase 2 Sites
- Phase 1&2 Sites

- ex.Lt2H Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H *Eucalyptus gonglyocarpa* over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/*Eremophila platythamnus* subsp. *platythamnus* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H *Eucalyptus gonglyocarpa*/*E. youngiana*/*E. concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H Scattered *E. gonglyocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H Undulating plains: Open mallee *Eucalyptus concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G Clay Pan: Scattered *Acacia nyssophylla*/*Grevillea sarissa* over open herbs and grasses.
- kxZ.GF White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/*Atriplex vesicaria* over sparse cover of *Eragrostis pergracilis*/*Aristida contorta*.
- m7S.kxZ.G Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/*Senna artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH *Acacia aneura* woodlands over grasses+/- *Triodia basedowii*.
- a1L.a1a9S.t2H Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/*Acacia ramulosa* var. *ramulosa* over *Eremophila forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G Rocky breadaways and associated slopes : Open *Acacia quadrimarginata*/*Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.



Tropicana Vegetation Map with Phase 1 and 2 Sites

Figure:4.2
Project ID: 717

Drawn: SG
Date: 10/03/09

Coordinate System
Name: GDA 1994 MGA Zone 51
Projection: Transverse Mercator
Datum: GDA 1994



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4.3 Multivariate analysis of vegetation communities

Multivariate analysis was conducted using the programme Systat™ and cover-ranked data to assist in the delineation of vegetation communities. The dendrogram thus derived is detailed in Figure 4.3. It can be seen that Communities Types 1 (Mixed Eucalypt woodlands over open shrublands over *Triodia basedowii* hummock grasslands), 2 (*Eucalyptus gongylocarpa* (marble gum) open woodland over *Triodia desertorum* or *T. basedowii* open hummock grassland) and 3 (Longitudinal sand dunes Isolated trees of *E. gongylocarpa* over mixed shrubs and *Triodia desertorum* ± *T. basedowii* sparse hummock grasslands) were separated from the remaining vegetation types at the first level of ordination. The saline clay pan communities and *Eucalyptus concinna* over *Triodia scariosa* communities were isolated from the *Acacia aneura* woodlands and *Casuarina pauper* communities at the secondary level of ordination.

Data used to derive the analysis is contained in Appendix J.



Figure 4-3 Systat™ dendrogram of similarity between sites, coverage weighted data

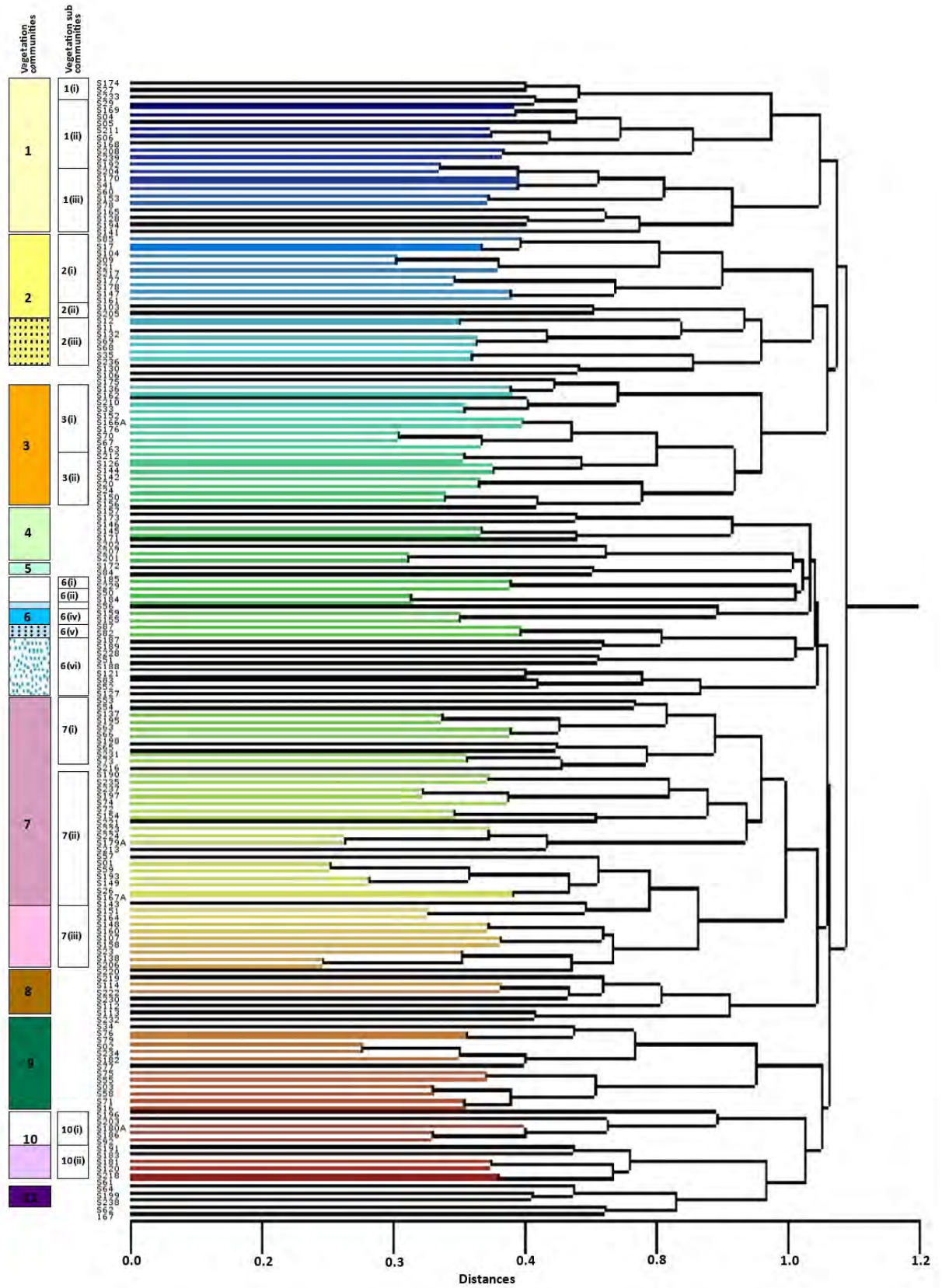


Figure 4.3 Systat™ dendrogram of similarity between sites, coverage weighted data (Pearson, complete linkage)



5.0 FLORA

A total of 446 taxa were recorded during the survey, including 3 naturalized alien taxa. Fifty seven families were represented by 162 genera. Forty five collections (10%) could not be identified beyond genus level due to a lack of reproductive material, whilst an additional nine taxa were identified to species level with some degree of uncertainty. A further five collections, excluded from the species list and the total above, could not be identified beyond the level of family.

On the basis of the known distributions of taxa from the genera incompletely identified, it is considered probable that at least 9 (17%) of the 54 incomplete identifications are simply poor specimens of taxa fully identified from elsewhere within the survey area. A further 27 collections (50%) are potential repeats but, given the distribution within the bioregion of other taxa from these genera, could also be taxa not collected to date within the survey area. The remaining 18 collections (33%) can be confirmed as species not elsewhere collected. The total number of taxa recorded is therefore more accurately represented as 437.

To assess if the remaining unidentified species were likely to be species of conservation interest a comparison between the distribution and habitat preferences of non observed taxa known to occur within the Great Victorian Desert Region was undertaken. This information has been tabulated for all genera from which incompletely identified collections were made (Appendix K). The table assesses the potential, as far as feasible given the incomplete material available, for the incompletely identified specimens to be of conservation significance.

Rainfall within the regions is typically erratic and the first phase of the current survey was conducted during dry conditions and contributed a higher proportion of indeterminate taxa. Rainfall preceding the second phase was significantly higher. The survey area contains extensive areas in which ephemeral or semi-perennial grasses are dominant and more than a quarter of the collections identified to genus level only were grasses, which dehisce readily but for which identifications are heavily reliant upon the presence of reproductive material.

A comparison between the distribution and composition of taxa collected during the current survey and those reported by Pearson (1994) within the Queen Victoria Spring Nature Reserve is presented in Table 5-1. The number of species recorded during the current survey suggests that the species richness within the TGP is at least as great as that of Queen Victoria Spring Nature Reserve, allowing for some discrepancies in the data due to the differences in survey effort and methodology (a smaller number of quadrates but extensive and prolonged opportunistic collection in QVSNR). Even if, as discussed above, 36 of the 54 collections identified to genus level only are presumed duplicates of taxa already collected, the number of species collected remains at least 75% of that collected at QVSNR (which also contains some taxonomic duplication and therefore some diminution of the species inventory) despite being half the area.

The representation of families and genera within the two areas is similar but not identical. The nine most dominant families at QVSNR were also within the list of the 10 most dominant families at Tropicana. The precise order of dominance does differ however, with taxa from the family Asteraceae (“daisies”) significantly more numerous at QVSNR, whilst taxa from Poaceae and Chenopodiaceae are more numerous at Tropicana. The greater dominance of Chenopodiaceae at Tropicana is undoubtedly a product of the extensive system of saline clay pans and surroundings. The greater representation of Asteraceae at QVSNR appears to be the result of the presence of a number of shrublands not present at Tropicana, in which ephemeral species from the family Asteraceae were noted as prolific.



A list of the species recorded during the survey is detailed in Appendix B, and their distribution amongst the survey sites is detailed in Appendix J.



Table 5-1 Comparison of floristic richness and composition of the Tropicana Survey Area and Queen Victoria Spring Nature Reserve

Criteria	Current Survey	Great Victoria Springs Reserve Survey (Pearson 1994)
Area included within survey	1,356 km ²	2,726 km ²
Survey intensity	204, 400 m ² quadrates surveyed during two seasons	77, 1600 m ² quadrates plus opportunistic collection over multiple seasons, plus collation of all species historically recorded within the Reserve over many decades
Number taxa collected	437	552
Number taxa /km ²	0.32	0.20
% indeterminate or uncertain identifications at species level	10%	14%
No Families	57	65
Dominant Families	Poaceae (47 species) Chenopodiaceae (45 species) Mimosaceae (41 species) Myrtaceae (33 species) Asteraceae (31 species) Myoporaceae (26 species) Goodeniaceae (23 species) Papilionaceae (19 species) Malvaceae (16 species) Proteaceae (15 species)	Asteraceae (65 species) Myrtaceae (59 species) Mimosaceae (36 species) Chenopodiaceae (37 species) Goodeniaceae (37 species) Poaceae (32 species) Papilionaceae (24 species) Proteaceae (20 species) Myoporaceaea (20 species)
Dominant Genera	<i>Acacia</i> (40 species) <i>Eremophila</i> (25 species) <i>Eucalyptus</i> (19 species)	<i>Acacia</i> (36 species) <i>Eucalyptus</i> (35 species) <i>Eremophila</i> (20 species)



5.1 Sampling Adequacy

Species accumulation curves provide a theoretical basis for understanding the relationship between sampling effort and the accumulation of species, and hence provide a means of estimating species richness and assessing survey adequacy. As sampling effort increases with a corresponding increase in area surveyed and time expended, the rate at which new species are recorded is reduced and ultimately becomes asymptotic. At this point, where there is a diminishing return with regards to increases in species richness with sampling effort, the survey effort is deemed sufficient.

Flora sampling adequacy was estimated using species accumulation curve analysis (Colwell, 2005) (Figure 5-1) and extrapolation of the curve to the asymptote using Michaelis-Menten modelling. Using this analysis, the incidence-based coverage estimator of species richness (ICE, Chao *et al* (2000)) was determined as 486, suggesting that approximately 90 % of the flora species potentially present within the study area were recorded during the two phase survey.

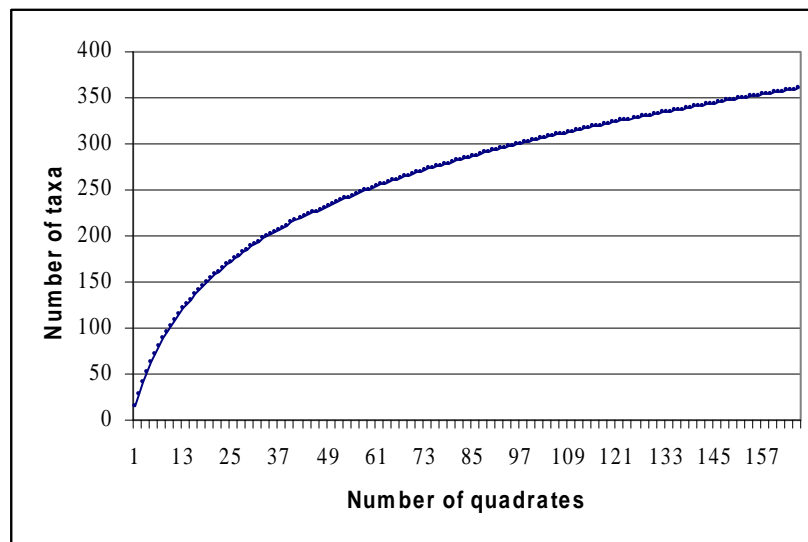


Figure 5-1 Average randomised species accumulation curve for flora surveyed within the study area (all Phase 2 sites).

5.2 Flora of Conservation Significance

5.2.1 Statutory Framework

Threatened flora species are protected at a National level under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The Act contains a list of species that are considered Critically Endangered, Endangered, Vulnerable, Conservation Dependent, Extinct or Extinct in the Wild (for definitions of categories, refer to Appendix E).

The EPBC Act 1999 also provides for the identification and listing of Threatened Ecological Communities (TECs). This Act lists TECs that are defined as Critically Endangered, Endangered or Vulnerable.

Flora of conservation significance within Western Australia are protected under the *Wildlife Conservation Act 1950* (WC Act) and termed Declared Rare Flora (DRF). The current list of DRF is



provided in the *Western Australian Wildlife Conservation (Rare Flora) Notice 2008(2)*. Declared Rare Flora are defined as “taxa which have been adequately searched for and deemed to be either rare, in danger of extinction, or otherwise in need of special protection in the wild”.

The Department of Environment and Conservation (DEC) also maintains a list of Priority Flora taxa, which are considered poorly known, uncommon, or under threat, but for which there is insufficient justification based on known distribution and population sizes for inclusion on the DRF schedule. Priority Flora taxa are assigned to one of four Priority categories (Atkins 2008) (refer to Appendix E Appendix C for a full definition of categories).

5.2.2 Database Searches

One threatened flora species is listed by the Department of the Environment, Water, Heritage and the Arts as possibly occurring within the Tropicana Project area and a 50 km radius; *Conospermum toddii* (Victoria Desert Smoke bush). This taxon is listed as endangered under the EPBC Act. There are no Threatened TEC’s listed in the vicinity of the Tropicana survey area.

Searches of the DEC Threatened (Declared Rare) Flora database, the Western Australian Herbarium (WAHERB) specimen database, the DEC Declared Rare and Priority Flora List (DR&P) were requested using a polygon based on the coordinates 29°16’S, 124°04’E (NW corner) and 31°00’S, 125°02’E (SE corner). Based on the results of the WAHERB and DR&P searches, two Declared Rare and 16 Priority Flora taxa are currently known from within the area searched (Table 5-2).

Table 5-2 Declared Rare and Priority Flora species known to occur within areas surrounding the TGP Operational Area

Species	Location Where Recorded	Conservation Codes*	Database
<i>Conospermum toddii</i>	Central W of Plumridge Lakes Nature Reserve	DRF	WAHERB, DR&P
<i>Eucalyptus articulata</i>	19 to 27 km east of Mulga Rockhole NNW of Queen Victoria Spring Nature Reserve	DRF	WAHERB, DR&P
<i>Baeckea</i> sp. Sandstone	92.3 km and 115 km (NNE) past intersection with the PNC (Officer Basin) track and abandoned camp	1	WAHERB
<i>Dampiera eriantha</i>	Victoria Desert Camp 54; W area of Plumridge Lakes Nature Reserve	1	WAHERB, DR&P
<i>Labichea deserticola</i>	Great Victoria Desert (GVD)	1	DR&P
<i>Baeckea</i> sp. Great Victoria Desert	Streich Mound, Queen Victoria Spring NR, Officer Basin, GVD.	2	DR&P
<i>Dicrastylis nicholasii</i>	41 km N of Trans-Aust-railway on western boundary fence of Kananda Station, Naretha 1	2	WAHERB
<i>Malleostemon</i> sp. Officer Basin	25 km S of Tropicana Exploration area/ 20 km NW of Cable Haul road	2	WAHERB
<i>Olearia arida</i>	35 km W of Plumridge Lakes	2	WAHERB, DR&P
<i>Physopsis chrysotricha</i>	Victoria Desert (Camp LIV) [Camp 54]	2	WAHERB
<i>Acacia eremophila</i> numerous-nerved variant	20 km WNW along track from S end of Plumridge Lakes	3	WAHERB, DR&P



Species	Location Where Recorded	Conservation Codes*	Database
<i>Eucalyptus pimpleana</i>	Lake Minigwal, GVD	3	DR&P
<i>Melaleuca nanophylla</i>	GVD	3	DR&P
<i>Microcorys macredieana</i>	SW part of Plumridge Lakes Nature Reserve	3	WAHERB
<i>Micromyrtus stenocalyx</i>	PNC Road, 35.4 km W of the Cable Haul Road; 95 km NW of Connie Sue Highway in Plumridge Lakes Nature Reserve	3	WAHERB
<i>Comesperma viscidulum</i>	Queen Victoria Spring, Little Sandy Desert, Carnarvon Range, GVD	4	DR&P
<i>Daviesia purpurascens</i>	GVD, Kondinin, Hyden, Bendering, Dragon Rocks	4	DR&P
<i>Lepidobolus deserti</i>	In SW part of Plumridge Lakes Nature Reserve	4	WAHERB

Conservation codes 1, 2, 3 and 4 denote Priority levels and DRF signifies Declared Rare Flora.

5.2.3 Flora of conservation significance previously recorded near Tropicana by ecologia

Two Declared Rare and 12 Priority Flora species have previously been recorded in the vicinity of Tropicana Gold Exploration area (*ecologia* 2005b; 2006a; 2006b; 2006c) and Plumridge Lakes (*ecologia* 2005a), Table 3.2.

Table 5-3: Declared Rare and Priority Flora recorded within the vicinity of the Tropicana study area and Plumridge Lakes Nature Reserve during previous *ecologia* surveys

Taxon	Family	Reference:	Cons. Status
<i>Conospermum toddii</i>	Proteaceae	<i>ecologia</i> 2006b	DRF
¹ <i>Eucalyptus ?articulata</i>	Myrtaceae	<i>ecologia</i> 2005a	DRF
<i>Thysanotus baueri</i>	Antheriaceae	<i>ecologia</i> 2005a	P1
<i>Baeckea</i> sp. Great Victoria Desert (A.S.Weston 14813)	Myrtaceae	<i>ecologia</i> 2005a	P2
<i>Dicrastylis nicholasii</i>	Lamiaceae	<i>ecologia</i> 2006b; 2006c	P2
<i>Grevillea secunda</i>	Proteaceae	<i>ecologia</i> 2005a; 2006a; 2006b	P2
<i>Isotropis ?canescens</i>	Papilionaceae	<i>ecologia</i> 2005a	P2
<i>Olearia arida</i>	Asteraceae	<i>ecologia</i> 2005b; 2006a; 2006b; 2006c	P2
<i>Microcorys macredieana</i>	Lamiaceae	<i>ecologia</i> 2006a; 2006b	P3
<i>Micromyrtus stenocalyx</i>	Myrtaceae	<i>ecologia</i> 2005b; 2006a; 2006b	P3
<i>Comesperma viscidulum</i>	Polygalaceae	<i>ecologia</i> 2006a	P4
<i>Daviesia ?purpurascens</i>	Papilionaceae	<i>ecologia</i> 2006a; 2006b	P4
<i>Lepidobolus deserti</i>	Restionaceae	<i>ecologia</i> 2005b; 2006a; 2006b; 2006c	P4
<i>Caesia talingka</i> ms	Antheriaceae		

¹Other species of taxonomic interest and potential conservation significance recorded in the survey during other *ecologia* surveys include:



- A previously undescribed taxon, *Caesia talingka* ms (C Tauss), previously classified as *Caesia rigidifolia* (P1) which is likely to be listed as a Priority taxon (*ecologia*, 2005b); and
- A previously unidentified species, *Tricoryne* sp. Great Victoria Desert western dunes (C. Slee 645-211) [syn. *Tricoryne* sp. Sunshine (C.C. Slee 211, 14/2/2006)] (*ecologia*, 2005b); and
- A new record for WA, *Lechenaultia divaricata*, which has been recommended to be listed as a Priority taxon (*ecologia*, 2005a).

5.2.4 Flora listed as Declared Rare Flora recorded during current survey

One flora species listed as Endangered and protected under both the EPBC Act, and *Wildlife Conservation Act 1950* (listed as Declared Rare flora [DRF]) was recorded at Tropicana; *Conospermum toddii*, and is described as follows.

***Conospermum toddii* (Proteaceae) Victoria Desert Smoke bush (DRF)**

Conospermum toddii is a spreading shrub, 1.2 to 2 m high with white to yellow flowers in July to October (Plate 5-1). It is consistently recorded on the crests of sand dunes, usually in yellow sand.



Plate 5-1 *Conospermum toddii*

Prior to this survey, 25 collections of this taxon had been lodged with the WA Herbarium, 13 of which were collected within the Queen Victoria Spring Nature Reserve. The most northern population currently recorded is located approximately 210 km north east of the survey area near Cosmo Newberry, whilst the most southern is located approximately 150 km to the south east near Cunderlee and the most western approximately 200 km to the west near Yundagabbi Rock Hole.

Initially collected at four locations within the Tropicana project area, this taxon has now been collected along a number of dunes (Figure 5.2) during subsequent, targeted searches. The total number of plants is now estimated to be in excess of 1300 within the project area.



5.2.5 Flora listed as Priority Flora recorded within the TGP

Fourteen Priority flora taxa were collected by *ecologia* during the current survey. One additional taxon was recorded during the targeted rare flora searches. Their distributions within the TGP are detailed within Appendix D and mapped in Figures 5.3 to 5.18

***Dampiera eriantha* (Priority 1)**

Dampiera eriantha is an erect perennial to 60 cm, hairless other than on the flowering structures. The leaves are sessile (without stalks), linear to oblong, with curled margins. The flowers are borne in axillary clusters 1 to 3 together. The exterior of the corolla is covered in fine, pale grey hairs. (Plate 5-2)



Plate 5-2 *Dampiera eriantha*

The original collection by the explorer Helms 1891 has been supplemented only once in 2007. The two collections are both from locations near the western edge of the Plumridge Lakes Nature Reserve, approximately 4 km distant from each other and approximately 15 km south of the southern boundary of the Tropicana survey area.

Within the current survey it was recorded at two locations approximately 3 km apart in the south west of the survey area on dune crests, approximately 24 and 27 km north west of the previous collections within the Plumridge Lakes Nature Reserve. Subsequent targeted rare flora searches have recorded at least 500 more plants within the dune formations.



***Baeckea* sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963) (Priority 1)**

Baeckea sp. Sandstone (P1) is a low, spreading to upright shrub to 1m in height. The stems tend to be sparse with a limited number of small branches present. The small leaves occur in groups along the sides of the stems. The flowers are small and pink to white, and can often be seen in the months after good rainfall (Plate 5-3). This species occurs in low woodlands or with Mulga, or among mallee and taller shrubs with spinifex. It tends to be found on flat, red, loamy sand plains.



Plate 5-3 ***Baeckea* sp. Sandstone**

Baeckea sp. Sandstone closely resembles another taxon, *Baeckea* sp. Great Victoria Desert (see below) that is relatively common within the TGP. The two taxa have overlapping habitat preferences and are extremely difficult to distinguish in the absence of flowering material. Hence it is possible that some records of *Baeckea* sp. Great Victoria Desert within the TGP may instead be *Baeckea* sp. Sandstone or that both taxa are present at some locations.

Prior to the current survey, specimens of this taxon had been lodged from locations near Leinster, Sandstone and Agnew. The records at TGP therefore represent a significant south eastern extension of the recorded range.

This taxon was recorded during the targeted rare flora searches of 2008, at four locations within 2 km of each other. However it remains possible that some earlier records of *Baeckea* sp. Great Victoria records include *B.* sp. Sandstone, particularly as the two taxa may co-occur. Approximately 70 plants have been recorded to date



***Baeckea* sp. Great Victoria Desert (A.S. Weston 14813) (Priority 2)**

Baeckea sp. Great Victoria Desert is a shrub to 1 m high with small pink to white flowers borne along the stems at the leaf axils from April to June. The leaves are yellowish green, small and tuberculate. Habitats recorded from previous collections include red sand, yellow sandy loam undulating plains and gentle slopes. (Plate 5-4)

It has previously been recorded within the Queen Victoria Spring Nature Reserve approximately 100 km to the south west of the survey area; at Black Range Station approximately 500 km to the west; at Mulga Rocks approximately 70 km to the south west; and from three other locations on geological tracks between 35 and 15 kilometres from the south eastern boundary of the survey area.

This taxon was recorded at nineteen locations during Phases 1 and 2 in a variety of vegetation communities, including dunes, the surrounding *Eucalyptus gongylocarpa* dominated swales, woodlands at the margins of clay pans and open *Acacia aneura* woodlands on clay loams. In addition, this taxon has now been collected along a number of additional dunes during subsequent, targeted rare flora searches. At some locations it is relatively abundant, providing a sparse to open cover within the shrub stratum. Subsequent targeted rare flora searches have shown that it is broadly distributed), with the total number of plants within the survey area estimated to be in excess of 3,300 with a further 180 recorded to date outside the project area.



Plate 5-4 ***Baeckea* sp. Great Victoria Desert (AS Weston 14813)**



***Dicrastylis nicholasii* (P2)**

Dicrastylis nicholasii is an upright shrub growing to about 0.6m in height. The stems have a grey, woolly appearance. The blue flowers occur in groups at the end of branching stems (Plate 5-5). The species has been recorded as flowering in January and April, but it possibly also flowers at other times of the year in response to good rainfall.



Plate 5-5 *Dicrastylis nicholasii*

It is often located on red, sandy loam soils on flat to slightly undulating plains in association with mallee, shrubs and spinifex.

Previously this taxon has been recorded at several locations within Plumridge Lakes Nature Reserve, approximately 35 to 40 km south west of the Tropicana survey area; and along the Trans-Australian railway near Kananda, approximately 130 km south of the Tropicana survey area.

Within the survey area this taxon is extremely widespread and abundant, occurring across a broad range of vegetation types. Based on records derived from all surveys within the TGP, the total number of plants within the project area is now estimated at approximately 18,000).

***Grevillea secunda* (P2)**

Grevillea secunda is a low, spreading shrub that grows between 0.3 m to 0.8 m in height, usually flowers between September and October (Plate 5-6). The flowers are red and arranged in groups at the ends of the horizontal stems, and the fruits have thin, woody shells. The species has large, variably-divided (bipinnatifid to pinatifid) prickly leaves and this feature, along with its habit of spreading almost horizontally just above the ground, distinguishes it from most other similar species growing in the TGP area (Plate 5-6).

Sixteen previous collections have been lodged at the WA Herbarium, seven of which are within the Queen Victoria Spring Nature Reserve, and a further eight collections between QVSNR and the southern boundary of the Tropicana project area, 25 to 60 km south east. One further occurrence is known from Adelong Station, approximately 380 km to the west. The collections at the Tropicana project area hence constitute a minor north eastern range extension for the taxon.

This taxon was recorded from two locations on dunes vegetation near the centre of the survey area). At each location it was relatively uncommon, such that the total number of plants is



estimated at fewer than ten at each location. Although no further collections have been made within the TGP, more than 300 additional plants from multiple locations to the south west of the TGP were recorded during the linear survey of the TGP Infrastructure Corridor.



Plate 5-6 *Grevillea secunda*

***Malleostemon* sp. Officer Basin (D Pearson 350) (P2)**

Malleostemon sp. Officer Basin is an open shrub generally to 1 m, but occasionally up to 3 m height in tall shrubland. It has small, almost round leaves that are close to the stem and arranged in overlapping rows. The stems have an open to sparse arrangement (Plate 5-7). Small white flowers occur in December.

Previous records of this taxon are from Queen Victoria Nature Reserve; 13 km south east of Officer Basin and approximately 75 km south west of the project area; and 25 km south of the TGP along the existing access track.

During the survey the current taxon was recorded at only two locations in the southern dunes, however additional targeted searching of the dunes recorded one additional population. The population is now estimated to exceed 450 plants



Plate 5-7 *Malleostemon* sp. Officer Basin



***Olearia arida* (Arid Daisy bush) (P2)**

Olearia arida is a low shrub up to 0.7 m in height (Plate 4.4). It has sparsely branched stems and young stems that are stiff, ribbed and sticky with short white hairs. The narrow leaves are up to 2 cm in length, smooth and hairless on the top and white with a green vein on the underside. At flowering time (July to September), a single white daisy head about 2 cm in diameter is produced at the end of each stem (Plate 5-8).

O. arida usually occurs on undulating low rises of red or yellow sand (Paczkowska and Chapman, 2000). Previous populations have been recorded near the Officer Basin Airstrip, approximately 80 km south west of the survey area; north of the Plumridge Lakes Nature Reserve, approximately 10 and 35 km ESE of the survey area; near Neale Junction, approximately 110 km north east of the survey area; and within the survey area near the current exploration camp.



Plate 5-8 ***Olearia arida***

During the current survey it was recorded from ten locations, primarily in the centre and south west of the lease within Eucalypt woodlands on undulating plains. Subsequent surveys of proposed infrastructure and targeted rare flora searches have considerably expanded the distribution such that more than 1300 plants have now been recorded.

***Acacia eremophila* numerous-nerved variant (P3)**

***Acacia eremophila* numerous-nerved variant** is a dense shrub with a rounded crown from 1 to 2 m high. The phyllodes are pale green to bronze green, erect, with brown, slightly hooked tips. The flower heads are mid-golden, with flowering occurring during September. It grows in sandy soil and on flats

Seven previous collections have been lodged, from along the road to Rawlinna; approximately 95, 98 and 105 km to the north east, east and south east; Perseverance Well, approximately 200 km to the west; near Balladonia approximately 350 km to the south west; and approximately 40 km to the south east. The collection from Tropicana is therefore within the known range of this taxon.

During Phase 2 this taxon was collected from a single location in the central portion of the lease, on an undulating plain with open *Callitris preissii* and *Eucalyptus trivalva* over *Triodia desertorum*. Subsequent surveys of proposed infrastructure and targeted rare flora searches have considerably expanded the number of locations such that the total number of plants now recorded within the TGP is in excess of 780.



***Acacia eremophila* var. *variabilis* (Priority 3)**

Acacia eremophila var. *variabilis* is an upright, rounded shrub up to 2 m high and 2 m wide. The phyllodes are erect, semi-rigid with the branchlets, pulvinus and peduncles (flower stalk) conspicuously white tomentulose. The flower heads are golden yellow and cylindrical (Plate 5-9).

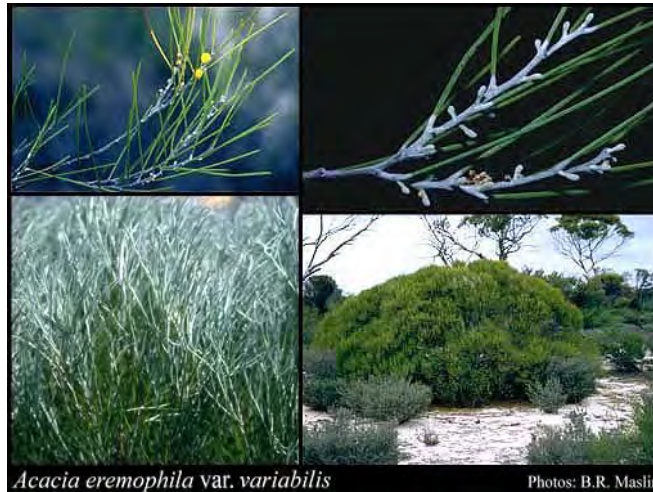


Plate 5-9 *Acacia eremophila* var. *variabilis*

This taxon is broadly distributed in WA, collected from six locations including Lake Moore near Kalannie, approximately 700 km west of the Tropicana project area; Ardath, approximately 670 km to the south west; Comet Vale, approximately 315 km to the west; Balladonia, approximately 330 km to the south; Menzies, approximately 325 km to the west; and Zanthus, approximately 190 km to the south west. The collections during this survey therefore represent an eastern range extension of approximately 65 km.

To date this taxon has been recorded during the current survey at three locations within 3 km of each other on undulating plains in the central portion of the survey area. Coverage estimates ranged from open to sparse and it is estimated that the total number of plants at these locations is between 50 and 100.

***Dicrasyllis cundeeleensis* (P2)**

Dicrasyllis cundeeleensis is an upright shrub growing up to 0.5 m in height, with grey-white woolly haired stems and leaves. The new growth and young leaves usually have a yellowish tinge to them. The flowers are white and grow in a pyramid shaped inflorescence at the end of side stems (Plate 5-10). It has been recorded to flower primarily between October and December but probably flowers in response to good rainfall events at other times. It occurs on yellow sand dunes and the associated swales

Although specimens have been lodged from nine locations since 1975, recognition of the collections as a separate taxon has occurred much more recently, with the formal description published in 2007. Currently lodged records range from within QVSNR, approximately 120 km south of the TGP, to approximately 100 km to the east of the TGP, with records to the immediate east within and at the boundary of Plumridge Lakes Nature Reserve. The collections within the TGP do not represent a significant range extension, although at the north western edge of the known range.



During the current survey this taxon was recorded from 5 locations within the survey area, however the number of records has been substantially expanded during targeted rare flora searches), with the total number of plants now estimated to be at least 6,000.



Plate 5-10 *Dicrastylis cundeeleensis*

***Microcorys macredieana* (P3)**

Microcorys macredieana is a wispy, broom-like, low shrub growing to between 0.2 and 1.5 m in height (Plate 4.7). It has narrow, aromatic, slightly hooked leaves that grow in groups of three from the stem. The flowers are white. It is conspicuous in unburnt vegetation at Tropicana due to the lush, light green colour of its leaves and stems, which can be clearly distinguished amongst the mostly dark or dull coloured plants in the area. The plants grow in yellow sand on dunes and plains, often in small clusters.

This relatively broadly distributed taxon has previously been recorded in both the Queen Victoria Spring Nature Reserve and Plumridge Lakes Nature Reserve; approximately 200 km to the north along the road to Warburton; 450 km to the north east near Warburton; and 550 km to the north west in the Carnarvon Range, Little Sandy Desert. The collection from Tropicana is therefore within the known range of this taxon.

Within the survey area, it was from eleven locations, most of which were in the dunes in the south west. Subsequent targeted rare flora and proposed infrastructure surveys have considerably expanded the distribution such that the more than 1300 plants have been recorded within the survey area



Plate 5-11 *Microcorys macredieana*



***Micromyrtus stenocalyx* (Wispy Desert Myrtaceae) (P3)**

Micromyrtus stenocalyx is a slender shrub from 0.3 to 1.5 m tall with tiny, creamy-yellow flowers (Plate 5-12) from April to December. The flowers are short tubes with petals that are about 1 mm wide. The leaves are small, narrow and lie close to the stem. It usually occurs on sand dunes and undulating sandplains of yellow or rarely red soils (Paczkowska and Chapman, 2000).

Previously this taxon has been recorded within the Plumridge Lakes Nature Reserve and extensively within the Queen Victoria Spring Nature Reserve; near Cundeelee, approximately 150 km to the south west of the Tropicana project area; on the PNC track 80 km to the south west of the southern boundary; and on the Coolgardie road, 340 km to the south west. The records within the Tropicana project area therefore represent a slight north eastern extension of the known range of this taxon.

During the survey, it was recorded at nine locations, distributed broadly throughout the sand dunes. Subsequent targeted searches have significantly expanded the distribution within the area and the total number of plants present within the lease is estimated to exceed 3,300.



Plate 5-12 ***Micromyrtus stenocalyx***

***Daviesia purpurascens* (P 4) Purple-leaved Daviesia),**

Daviesia purpurascens is a prickly erect shrub under 1 m in height that produces yellow-brown-red pea flowers during October. The stems and leaf-like parts of this species are a blue-green to grey colour, round in cross section, and very spiny (Plate 5-13). Plants occur on sandy or loamy soils over laterite on flats and ridges.



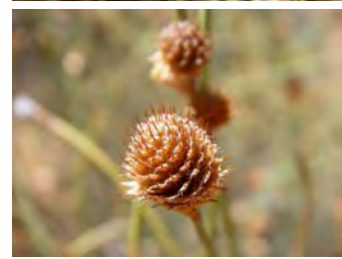
Plate 5-13 *Daviesia purpurascens*

D. purpurascens has a very broad distribution ranging from Denham, over 1000 km to the west to Tropicana, to Kalbarin, approximately 650 km to the south west. It has been recorded from Queen Victoria Spring Nature Reserve, Boorababbin Nature Reserve, North Kalbarin Nature Reserve and Dragon Rocks Reserve. The population at Tropicana represents a small eastern extension to the existing known range.

It was recorded at two locations during the current survey in the south west of the survey area. Subsequent targeted rare flora searches have expanded the number of locations) and the total number of plants within the TBP is estimated to be at least 550.

***Lepidobolus deserti* (Desert Twine Rush) (P4)**

Lepidobolus deserti is a rhizomatous, caespitose perennial herb between 0.15 and 0.45 m in height (Paczkowska and Chapman, 2000). This sedge-like herb grows in tufts and has wiry leafless stems that twist and curl back and forth. The short stems have with a number of dark to mid-brown patches at regular spacing. The above-ground stems grow to about 40 cm (but often about 25 cm) in height from an underground horizontal stem. The underground stem is covered with dense, light brown hairs. It often grows in clumps that are 20 to 40 cm wide (Plate 5-14). It typically occurs on yellow or orange sand dunes (Paczkowska and Chapman, 2000).



5-14 *Lepidobolus deserti*

Plate



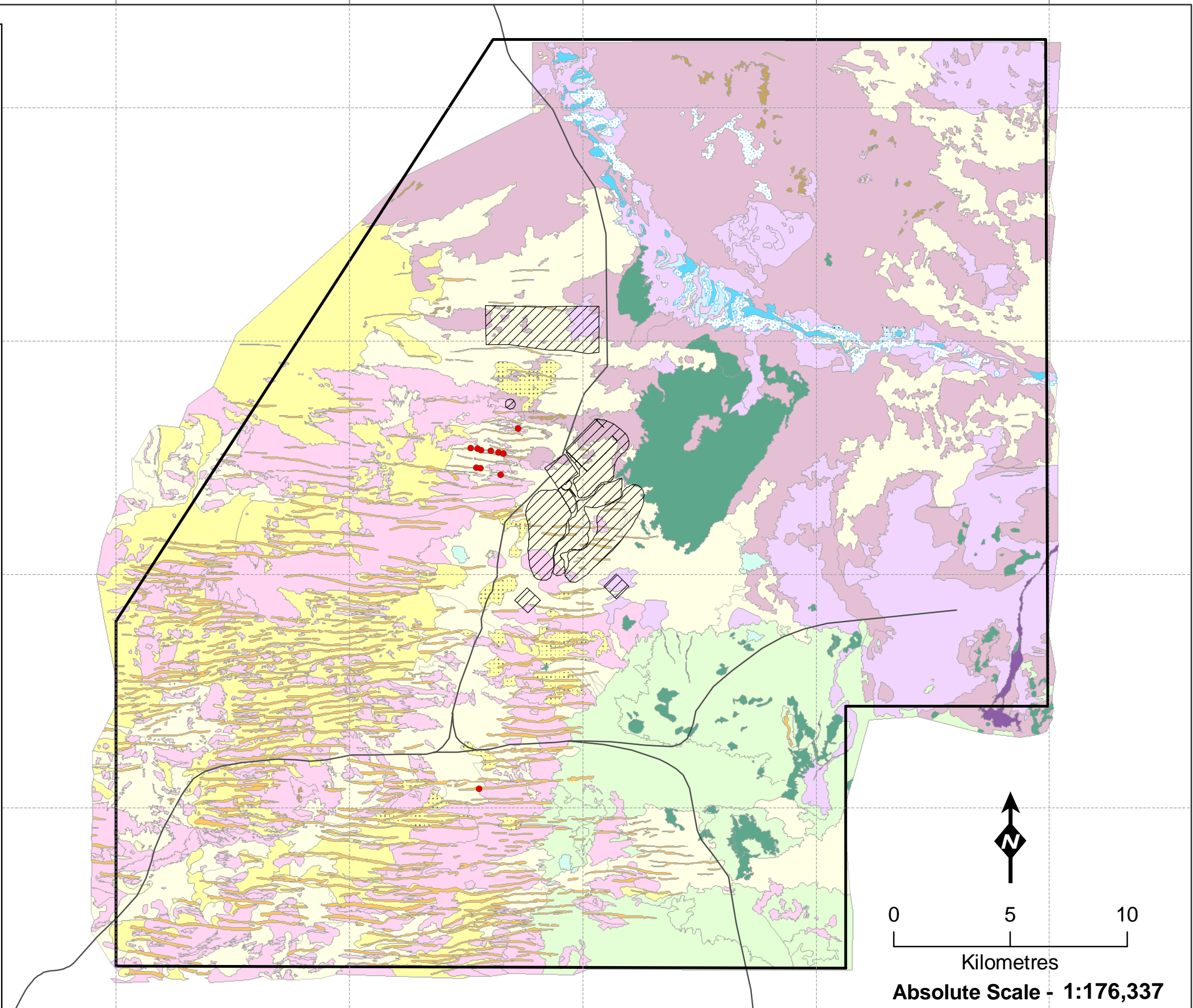
Previously this taxon has been recorded as far west as Perrinvale Station, 400 km to the west of Tropicana and Goongarrie Station, 320 km to the south west. It has also been recorded at Plumridge Lakes Nature Reserve and Queen Victoria Spring Nature Reserve. The locations recorded within the survey area lie at the north eastern boundary of the known range.

Nineteen locations were recorded during the current survey, predominantly in the south western dunes, with numerous additional locations recorded during the subsequent targeted searches. The number of plants within the lease is now estimated to exceed 5,500.

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Legend

- *Conospermum toddii*
- EIA Survey Area
- Conceptual Site Layout Dec 08
- Access Road
- ex.Lt2H
Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H
Eucalyptus gonglyocarpa over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/*Eremophila platythamnus* subsp. *platythamnus* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H
Eucalyptus gonglyocarpa/*E. youngiana*/*E. concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H
Scattered *E. gonglyocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H
Undulating plains: Open mallee *Eucalyptus concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS
Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G
Clay Pan: Scattered *Acacia nyssophylla*/*Grevillea sarissa* over open herbs and grasses.
- kxZ.GF
White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G
Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/*Atriplex vesicaria* over sparse cover of *Eragrostis pergracilis*/*Aristida contorta*.
- m7S.kxZ.G
Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G
Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/*Senna artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH
Acacia aneura woodlands over grasses+/- *Triodia basedowii*.
- a1L.a1a9S.t2H
Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/*Acacia ramulosa* var. *ramulosa* over *Eremophila forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G
Rocky breadaways and associated slopes: Open *Acacia quadrimarginata*/*Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G
Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G
Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.



Distribution of *Conospermum toddii* (DRF) within the survey area

Figure: 5.2
Project ID: 717

Drawn: SG
Date: 13/03/09

Coordinate System
Name: GDA 1994 MGA Zone 51
Projection: Transverse Mercator
Datum: GDA 1994



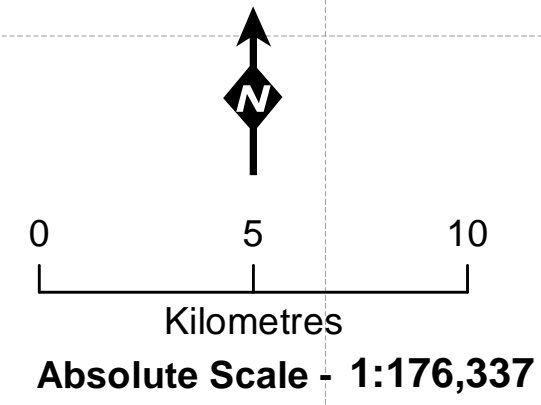
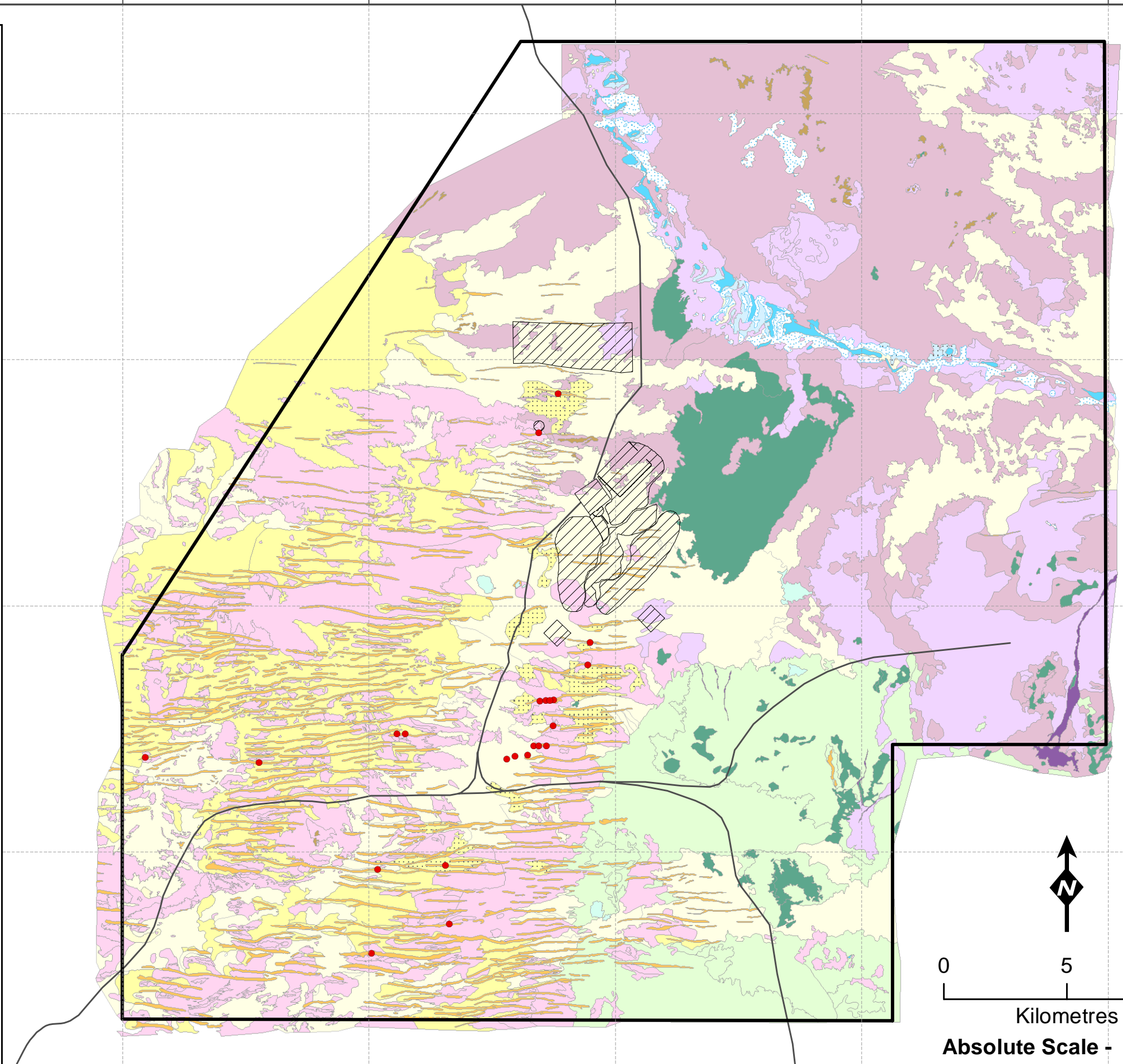
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Legend

- *Dampiera eriantha*
- ex.Lt2H
Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H
Eucalyptus gongylocarpa over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/ *Eremophila platythamnus* subsp. *platythamnus* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H
Eucalyptus gongylocarpa/ *E. youngiana*/ *E. concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H
Scattered *E. gongylocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H
Undulating plains: Open mallee *Eucalyptus concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS
Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G
Clay Pan: Scattered *Acacia nyssophylla*/ *Grevillea sarissa* over open herbs and grasses.
- kxZ.GF
White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G
Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/ *Atriplex vesicaria* over sparse cover of *Eragrostis pergracilis*/ *Aristida contorta*.
- m7S.kxZ.G
Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G
Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/ *Senna artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH
Acacia aneura woodlands over grasses+/- *Triodia basedowii*.
- a1L.al1a9S.t2H
Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/ *Acacia ramulosa* var. *ramulosa* over *Eremophila forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G
Rocky breadaways and associated slopes : Open *Acacia quadrimarginata*/ *Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G
Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G
Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.
- Access Road
- Conceptual Site Layout Dec 08
- EIA Survey Area



Distribution of *Dampiera eriantha* (P1) within the survey area

Figure: 5.3
Project ID: 717

Drawn: SG
Date: 10/03/09

Coordinate System
Name: GDA 1994 MGA Zone 51
Projection: Transverse Mercator
Datum: GDA 1994



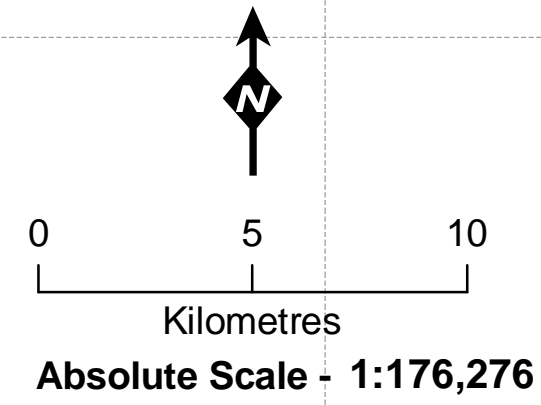
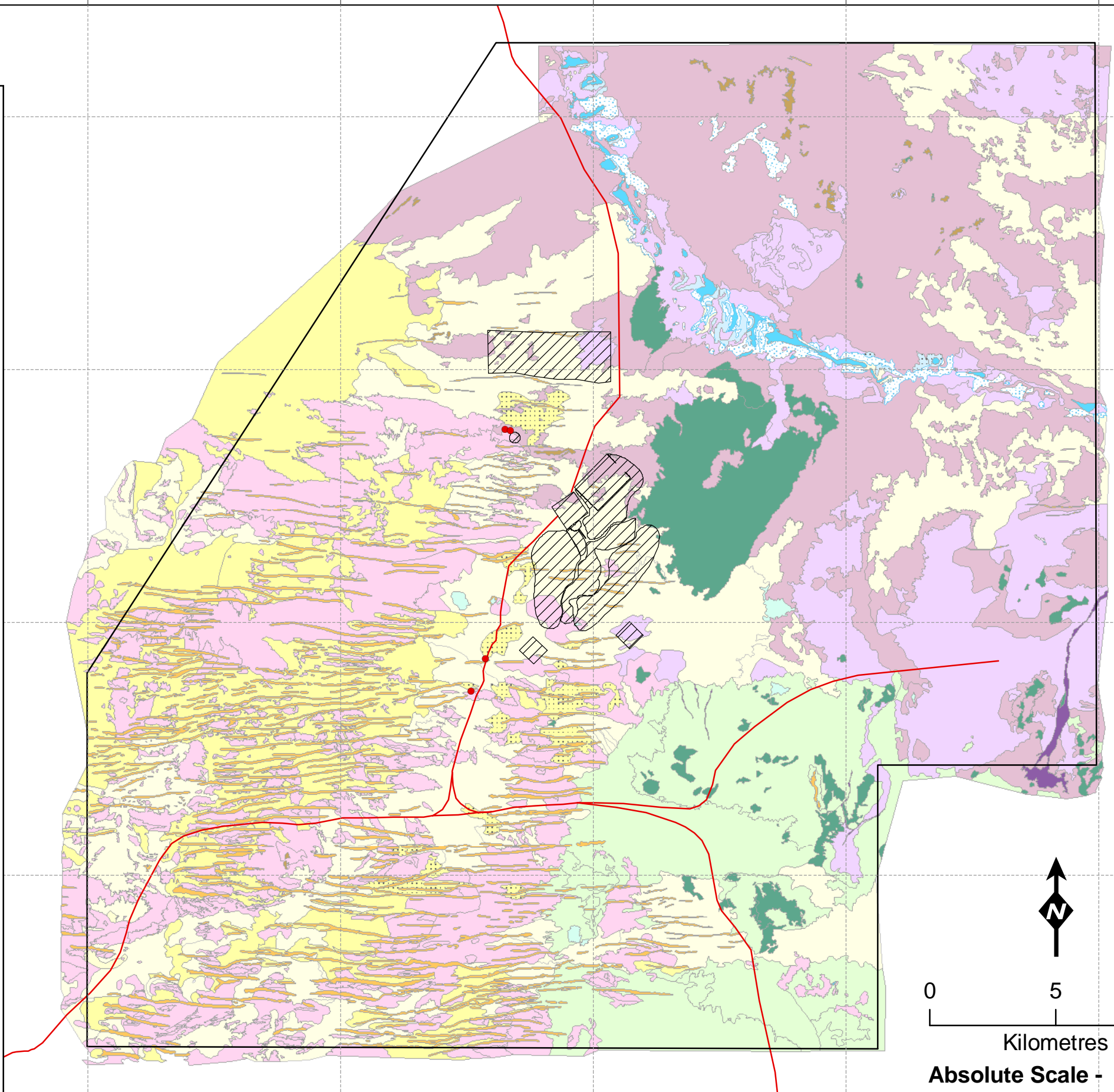
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- *Baeckea sp. Sandstone*
- ex.Lt2H Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H *Eucalyptus gonglyocarpa* over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/*Eremophila platythamnus* subsp. *platythamnus* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H *Eucalyptus gonglyocarpa*/*E. youngiana*/*E. concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H Scattered *E. gonglyocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H Undulating plains: Open mallee *Eucalyptus concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G Clay Pan: Scattered *Acacia nyssophylla*/*Grevillea sarissa* over open herbs and grasses.
- kxZ.GF White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/*Atriplex vesicaria* over sparse cover of *Eragrostis pergracilis*/*Aristida contorta*.
- m7S.kxZ.G Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/*Senna artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH *Acacia aneura* woodlands over grasses+/*Triodia basedowii*.
- a1L.al1a9S.t2H Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/*Acacia ramulosa* var. *ramulose* over *Eremophila forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G Rocky breadaways and associated slopes : Open *Acacia quadrimarginata*/*Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.



Distribution of *Baeckea sp. Sandstone* (P1) within the survey area

Figure: 5.4
Project ID: 717

Drawn: SG
Date: 10/03/09

Coordinate System
Name: GDA 1994 MGA Zone 51
Projection: Transverse Mercator
Datum: GDA 1994



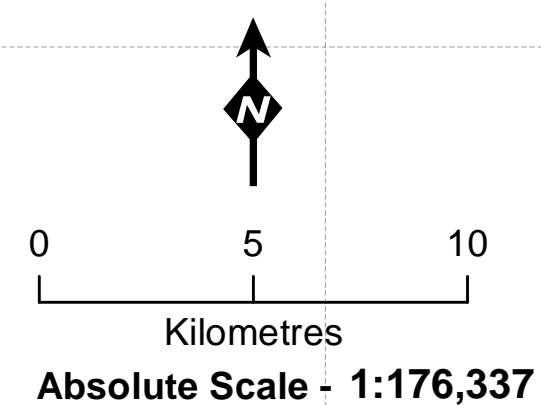
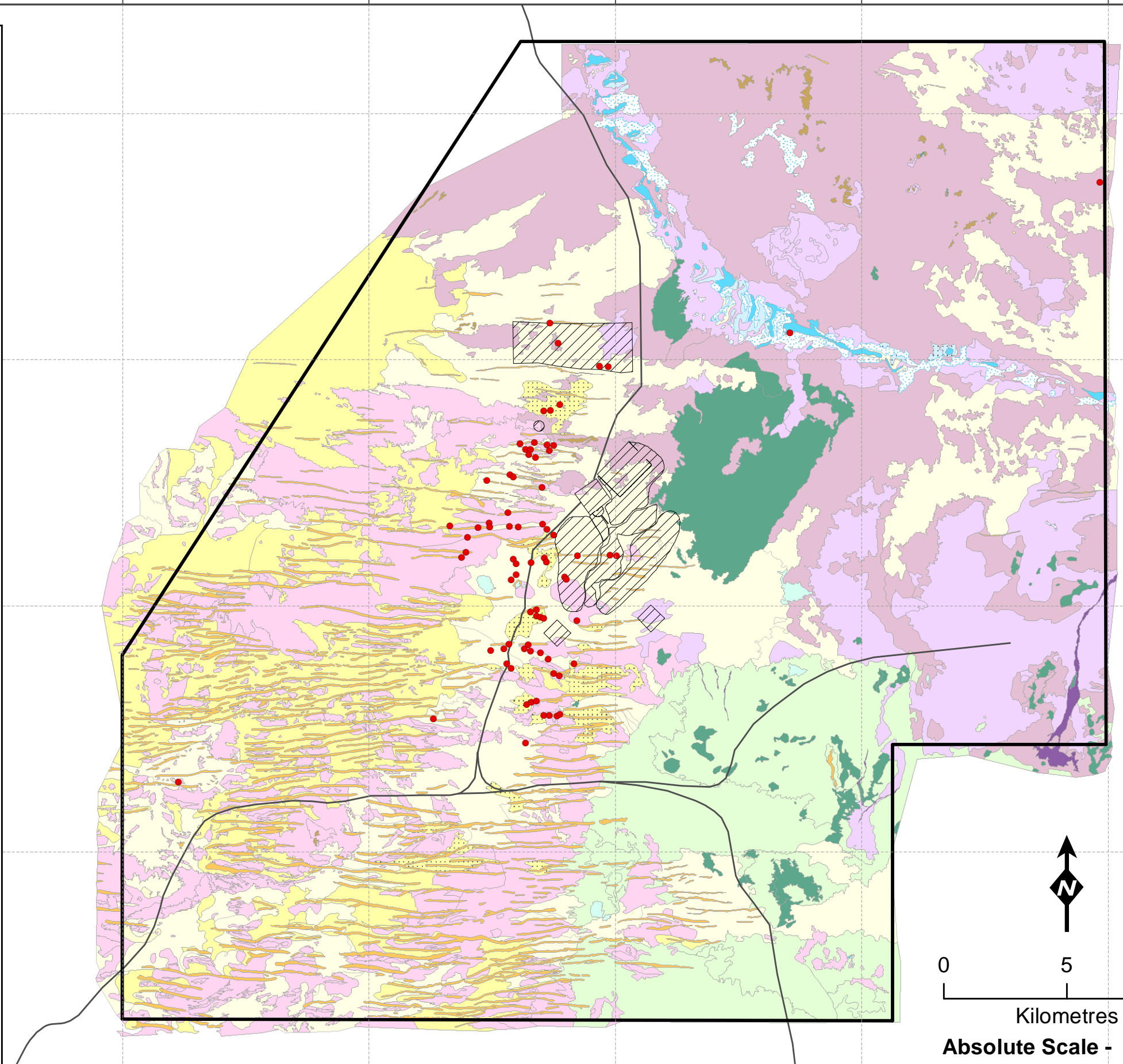
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- *Baeckea sp. Gt. Victoria Desert (A.S. Weston 14813)*
- ex.Lt2H Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H *Eucalyptus gonglyocarpa* over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/Eremophila *platythamnus* subsp. *platythamnus* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H *Eucalyptus gonglyocarpa*/E. *youngiana*/E. *concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H Scattered *E. gonglyocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H Undulating plains: Open mallee *Eucalyptus concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G Clay Pan: Scattered *Acacia nyssophylla*/Grevillea *sarissa* over open herbs and grasses.
- kxZ.GF White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/Atriplex *vesicaria* over sparse cover of *Eragrostis pergracilis*/Aristida *contorta*.
- m7S.kxZ.G Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/Senna *artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH *Acacia aneura* woodlands over grasses+/- *Triodia basedowii*.
- a1L.al1a9S.t2H Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/ *Acacia ramulosa* var. *ramulosa* over *Eremophila forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G Rocky breadaways and associated slopes : Open *Acacia quadrimarginata*/*Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.
- Access Road
- ▨ Conceptual Site Layout Dec 08
- ▭ EIA Survey Area



Distribution of *Baeckea sp. Gt. Victoria Desert (A.S. Weston 14813) (P2)* within the survey area

Figure: 5.5
Project ID: 717
Coordinate System
Name: GDA 1994 MGA Zone 51
Projection: Transverse Mercator
Datum: GDA 1994

Drawn: SG
Date: 10/03/09



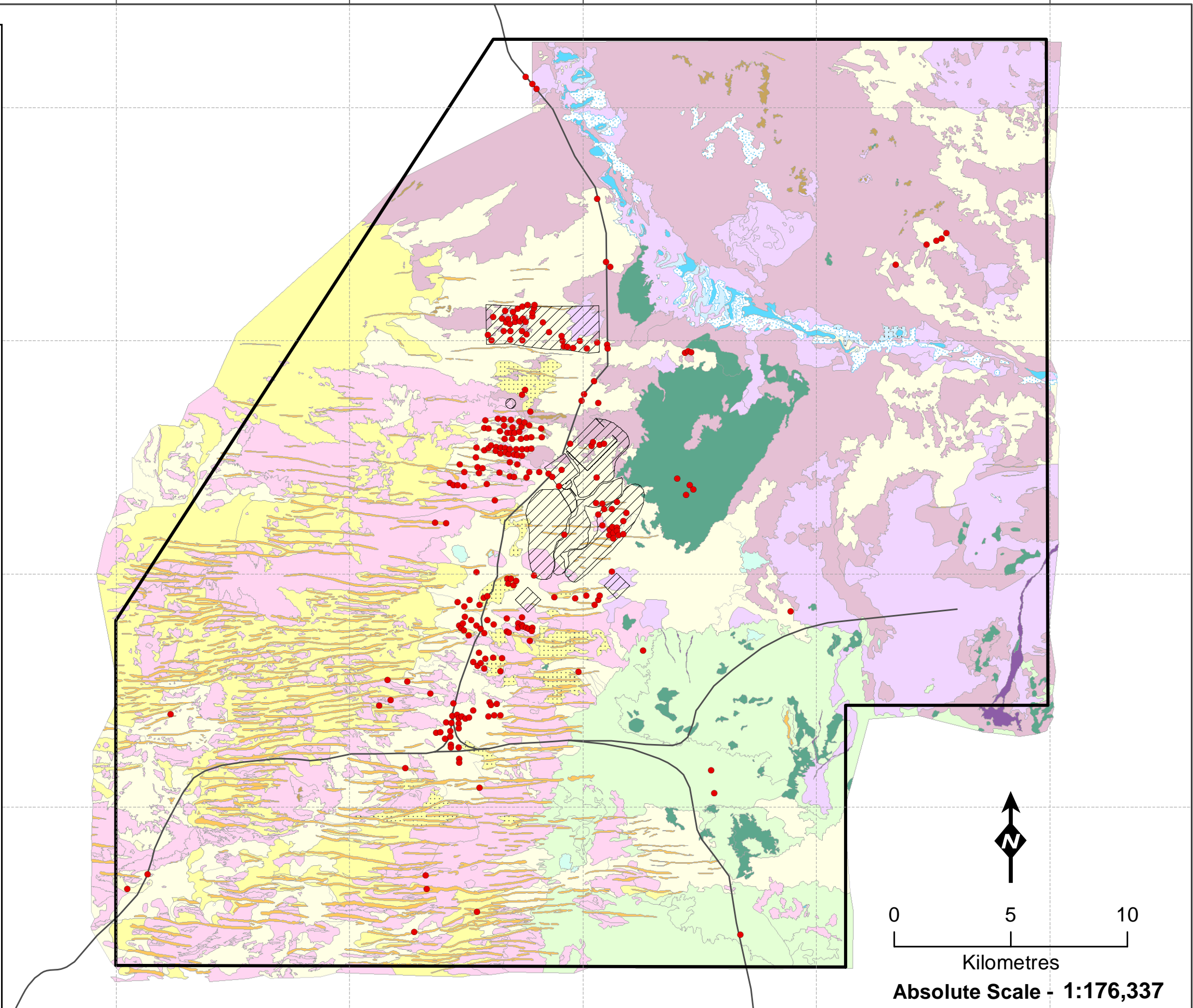
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Legend

- *Dicrastylis nicholasii*
- ex.Lt2H Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H *Eucalyptus gonglyocarpa* over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/Eremophila *platythamnus* subsp. *platythamnus* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H *Eucalyptus gonglyocarpa*/E. *youngiana*/E. *concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H Scattered *E. gonglyocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H Undulating plains: Open mallee *Eucalyptus concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G Clay Pan: Scattered *Acacia nyssophylla*/Grevillea *sarissa* over open herbs and grasses.
- kxZ.GF White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/Atriplex *vesicaria* over sparse cover of *Eragrostis pergracilis*/Aristida *contorta*.
- m7S.kxZ.G Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/Senna *artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH *Acacia aneura* woodlands over grasses+/- *Triodia basedowii*.
- a1L.al1a9S.t2H Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/ *Acacia ramulosa* var. *ramulosa* over *Eremophila forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G Rocky breadaways and associated slopes: Open *Acacia quadrimarginata*/*Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.
- Access Road
- ▨ Conceptual Site Layout Dec 08
- ▭ EIA Survey Area



Distribution of *Dicrastylis nicholasii* (P2) within the survey area

Figure: 5.6
Project ID: 717

Drawn: SG
Date: 10/03/09

Coordinate System
Name: GDA 1994 MGA Zone 51
Projection: Transverse Mercator
Datum: GDA 1994



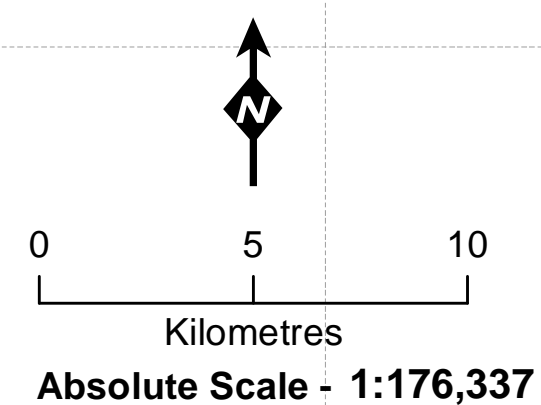
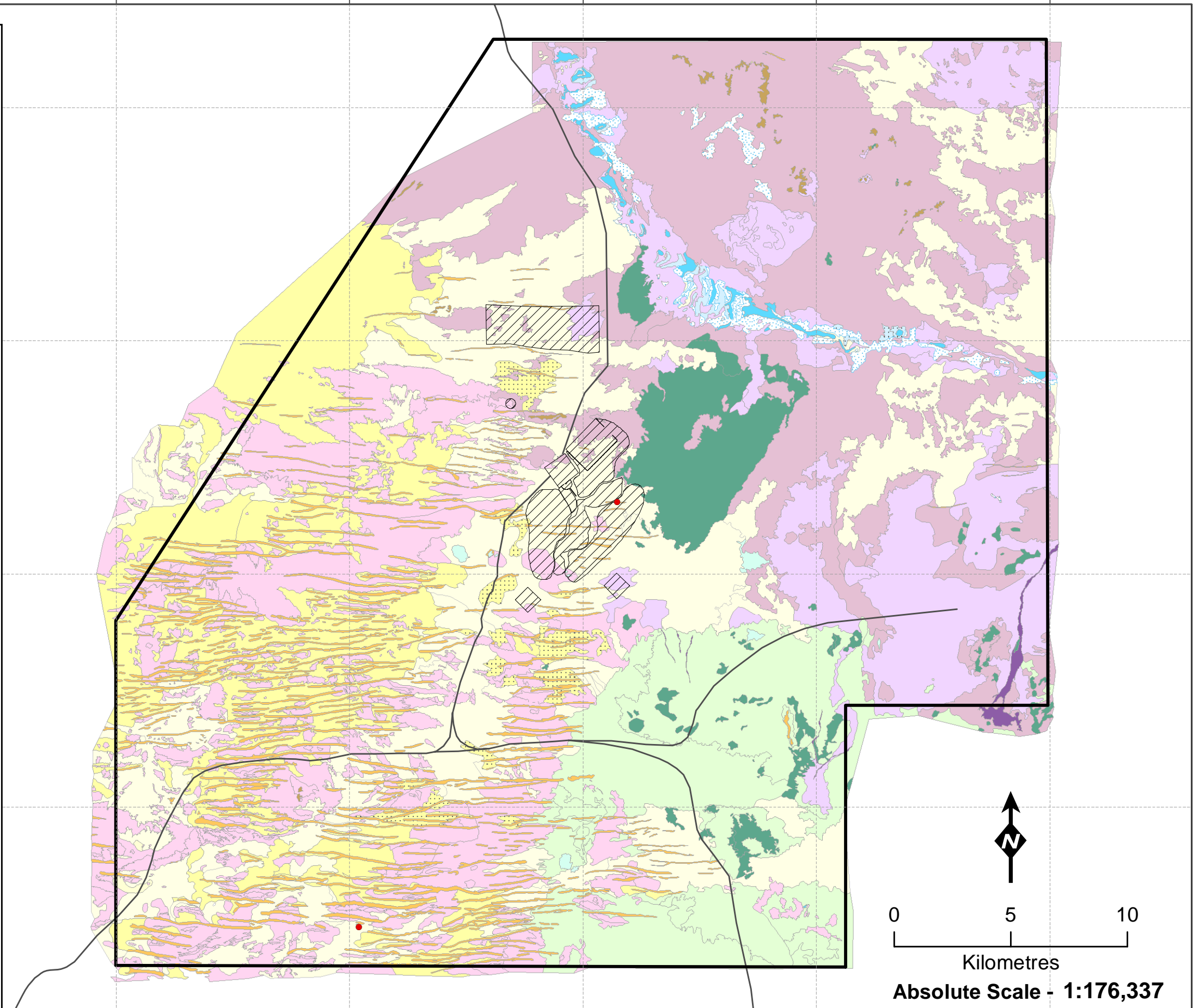
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Legend

- *Grevillea secunda*
- ex.Lt2H
Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H
Eucalyptus gonglyocarpa over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/*Eremophila platythamnos* subsp. *platythamnos* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H
Eucalyptus gonglyocarpa/*E. youngiana*/*E. concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H
Scattered *E. gonglyocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H
Undulating plains: Open mallee *Eucalyptus. concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS
Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G
Clay Pan: Scattered *Acacia nyssophylla*/*Grevillea sarissa* over open herbs and grasses.
- kxZ.GF
White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G
Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/*Atriplex vesicaria* over sparse cover of *Eragrostis pergracilis*/*Aristida contorta*.
- m7S.kxZ.G
Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G
Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/*Senna artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH
Acacia aneura woodlands over grasses+/*Triodia basedowii*.
- a1L.al1a9S.t2H
Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/*Acacia ramulosa* var. *ramulosa* over *Eremophila forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G
Rocky breadaways and associated slopes : Open *Acacia quadrimarginata*/*Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G
Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G
Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.
- Access Road
- Conceptual Site Layout Dec 08
- EIA Survey Area



Distribution of *Grevillea secunda* (P2) within the survey area

Figure: 5.7
Project ID: 717
Coordinate System
Name: GDA 1994 MGA Zone 51
Projection: Transverse Mercator
Datum: GDA 1994

Drawn: SG
Date: 10/03/09



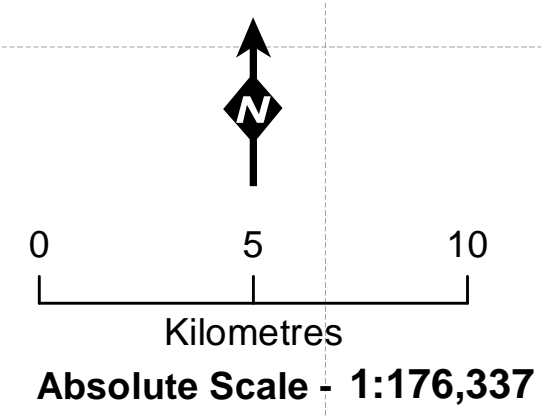
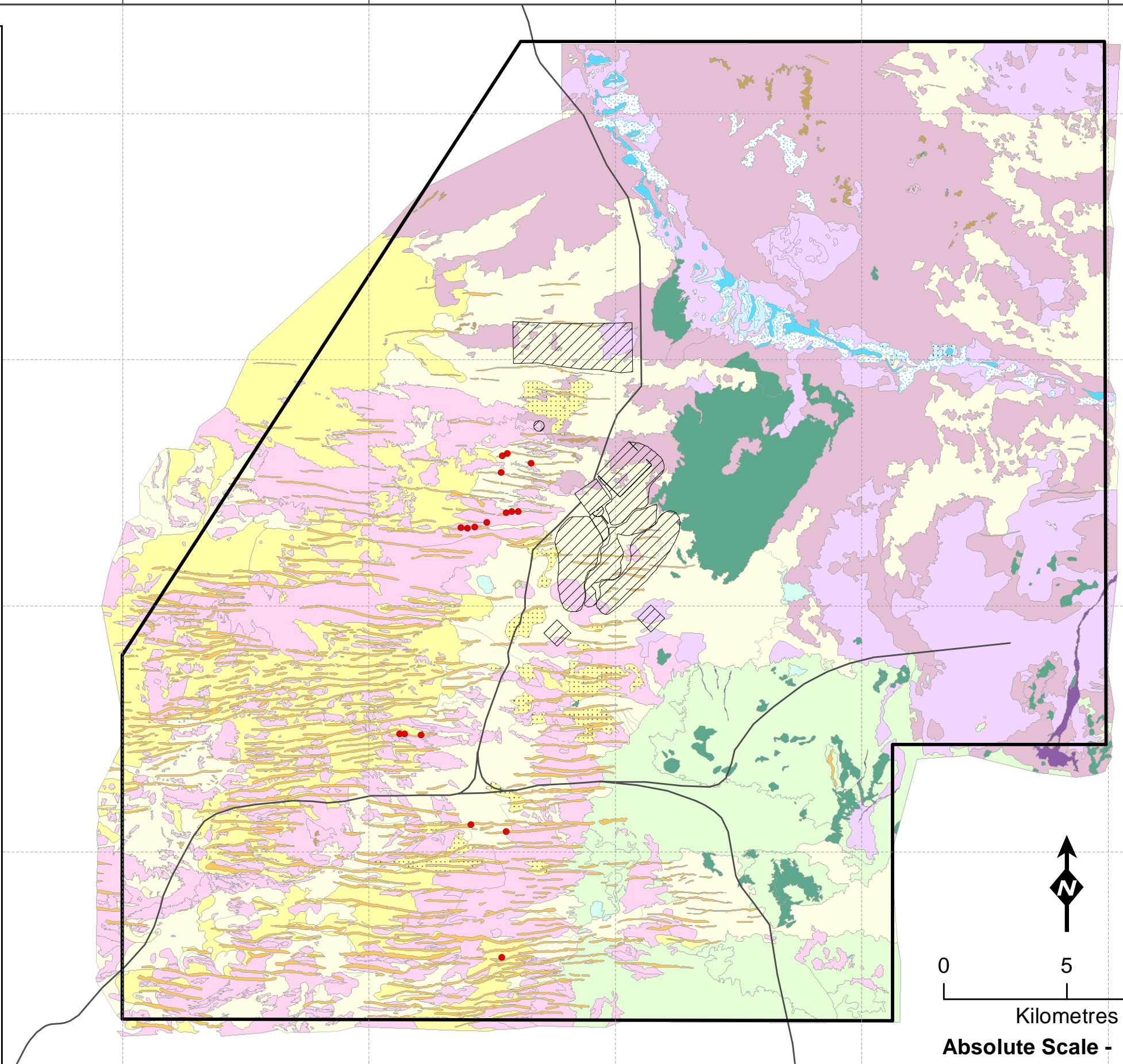
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Legend

- *Malleostemon* sp. Officer Basin (D. Pearson 350)
- ex.Lt2H Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H *Eucalyptus gonglyocarpa* over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/Eremophila *platythamnos* subsp. *platythamnos* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H *Eucalyptus gonglyocarpa*/E. *youngiana*/E. *concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H Scattered *E. gonglyocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H Undulating plains: Open mallee *Eucalyptus concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G Clay Pan: Scattered *Acacia nyssophylla*/Grevillea *sarissa* over open herbs and grasses.
- kxZ.GF White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/Atriplex *vesicaria* over sparse cover of *Eragrostis pergracilis*/Aristida *contorta*.
- m7S.kxZ.G Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/Senna *artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH *Acacia aneura* woodlands over grasses+/- *Triodia basedowii*.
- a1L.al1a9S.t2H Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/ *Acacia ramulosa* var. *ramulosa* over Eremophila *forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G Rocky breadaways and associated slopes : Open *Acacia quadrimarginata*/*Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.
- Access Road
- ▨ Conceptual Site Layout Dec 08
- ▭ EIA Survey Area



**Distribution of
Malleostemon sp. Officer Basin
(D. Pearson 350) (P2)
within the survey area**

Figure: 5.8
Project ID: 717
Coordinate System
Name: GDA 1994 MGA Zone 51
Projection: Transverse Mercator
Datum: GDA 1994

Drawn: SG
Date: 10/03/09



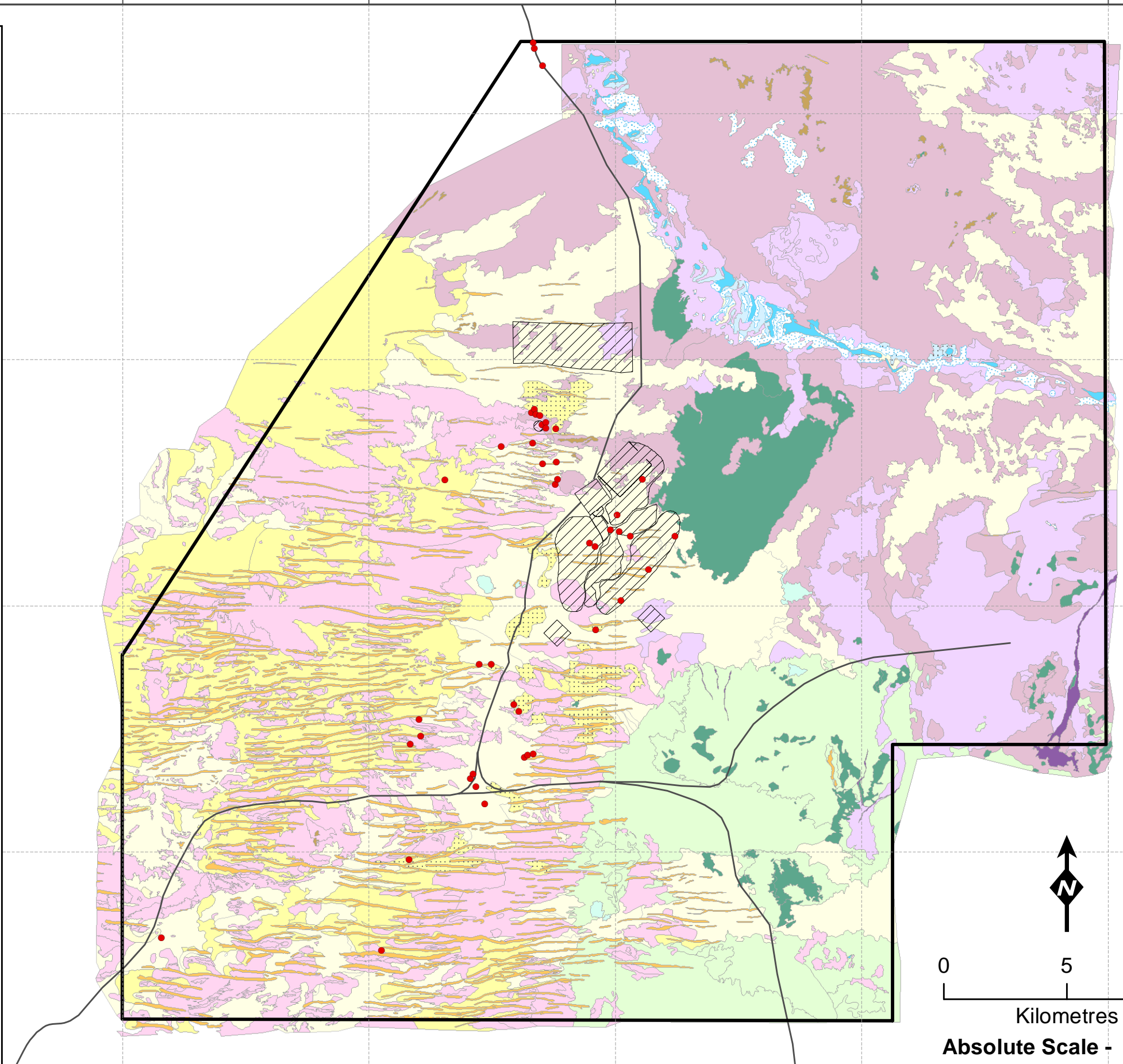
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Legend

- *Olearia arida*
- ex.Lt2H
Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H
Eucalyptus gonglyocarpa over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/*Eremophila platythamnos* subsp. *platythamnos* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H
Eucalyptus gonglyocarpa/*E. youngiana*/*E. concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H
Scattered *E. gonglyocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H
Undulating plains: Open mallee *Eucalyptus concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS
Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G
Clay Pan: Scattered *Acacia nyssophylla*/*Grevillea sarissa* over open herbs and grasses.
- kxZ.GF
White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G
Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/*Atriplex vesicaria* over sparse cover of *Eragrostis pergracilis*/*Aristida contorta*.
- m7S.kxZ.G
Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G
Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/*Senna artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH
Acacia aneura woodlands over grasses+/*Triodia basedowii*.
- a1L.al1a9S.t2H
Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/*Acacia ramulosa* var. *ramulosa* over *Eremophila forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G
Rocky breadaways and associated slopes: Open *Acacia quadrimarginata*/*Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G
Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G
Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.
- Access Road
- Conceptual Site Layout Dec 08
- EIA Survey Area



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 Kilometres
Absolute Scale - 1:176,337



Distribution of *Olearia arida* (P2) within the survey area

Figure: 5.9
Project ID: 717

Coordinate System
Name: GDA 1994 MGA Zone 51
Projection: Transverse Mercator
Datum: GDA 1994

Drawn: SG
Date: 10/03/09



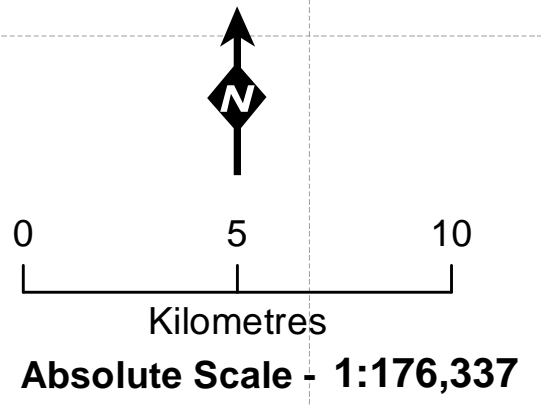
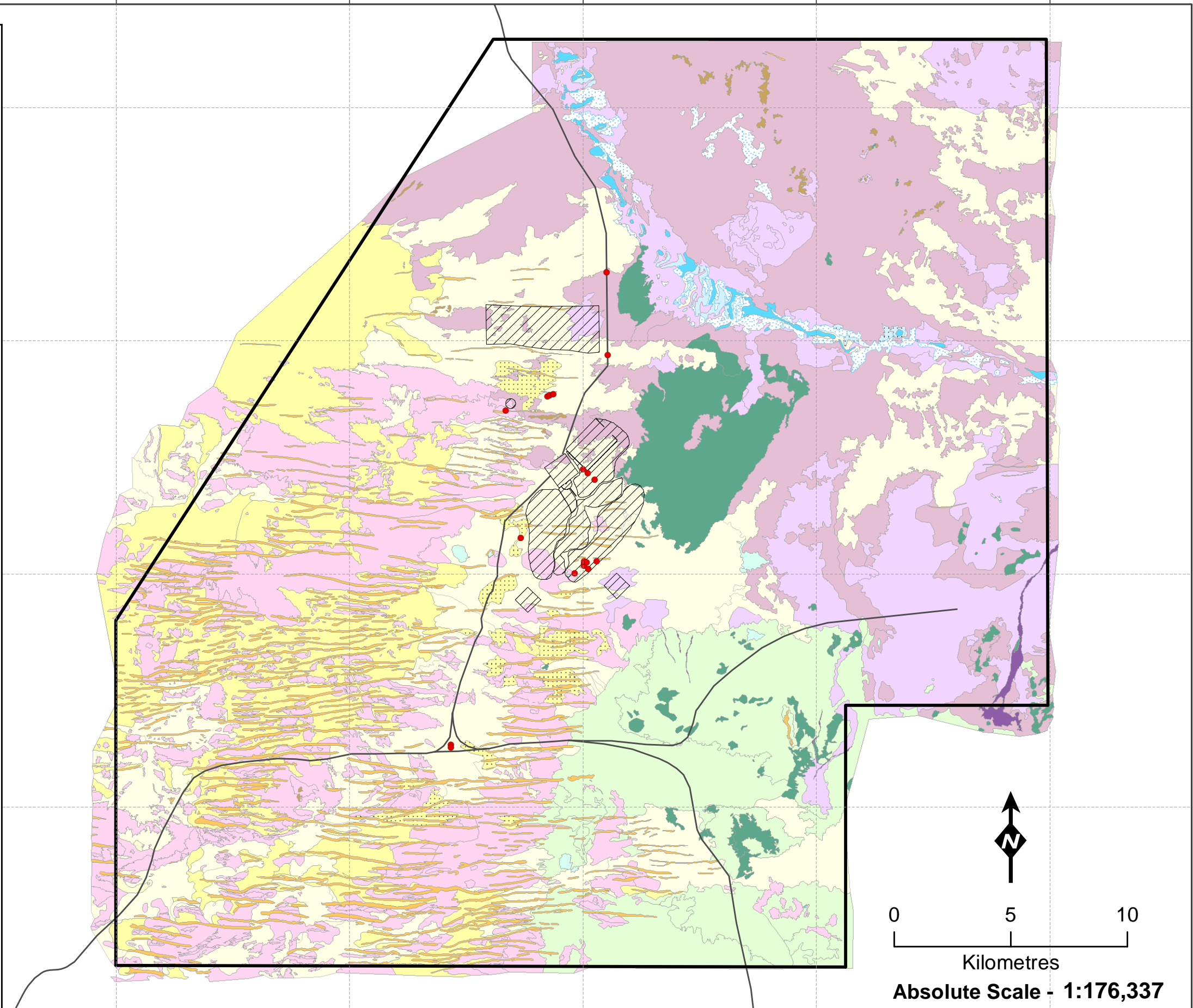
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Legend

- <ITA>Acacia eremophila<ITA> numerous-nerved variant
- ex.Lt2H Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H *Eucalyptus gonglyocarpa* over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/*Eremophila platythamnos* subsp. *platythamnos* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H *Eucalyptus gonglyocarpa*/*E. youngiana*/*E. concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H Scattered *E. gonglyocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H Undulating plains: Open mallee *Eucalyptus concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G Clay Pan: Scattered *Acacia nyssophylla*/*Grevillea sarissa* over open herbs and grasses.
- kxZ.GF White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/*Atriplex vesicaria* over sparse cover of *Eragrostis pergracilis*/*Aristida contorta*.
- m7S.kxZ.G Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/*Senna artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH *Acacia aneura* woodlands over grasses+/- *Triodia basedowii*.
- a1L.al1a9S.t2H Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/*Acacia ramulosa* var. *ramulosa* over *Eremophila forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G Rocky breadaways and associated slopes : Open *Acacia quadrimarginata*/*Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.
- Access Road
- ▨ Conceptual Site Layout Dec 08
- ▭ EIA Survey Area



Distribution of *Acacia eremophila* numerous-nerved variant (P3) within the survey area

Figure: 5.10
Project ID: 717
Coordinate System
Name: GDA 1994 MGA Zone 51
Projection: Transverse Mercator
Datum: GDA 1994

Drawn: SG
Date: 10/03/09



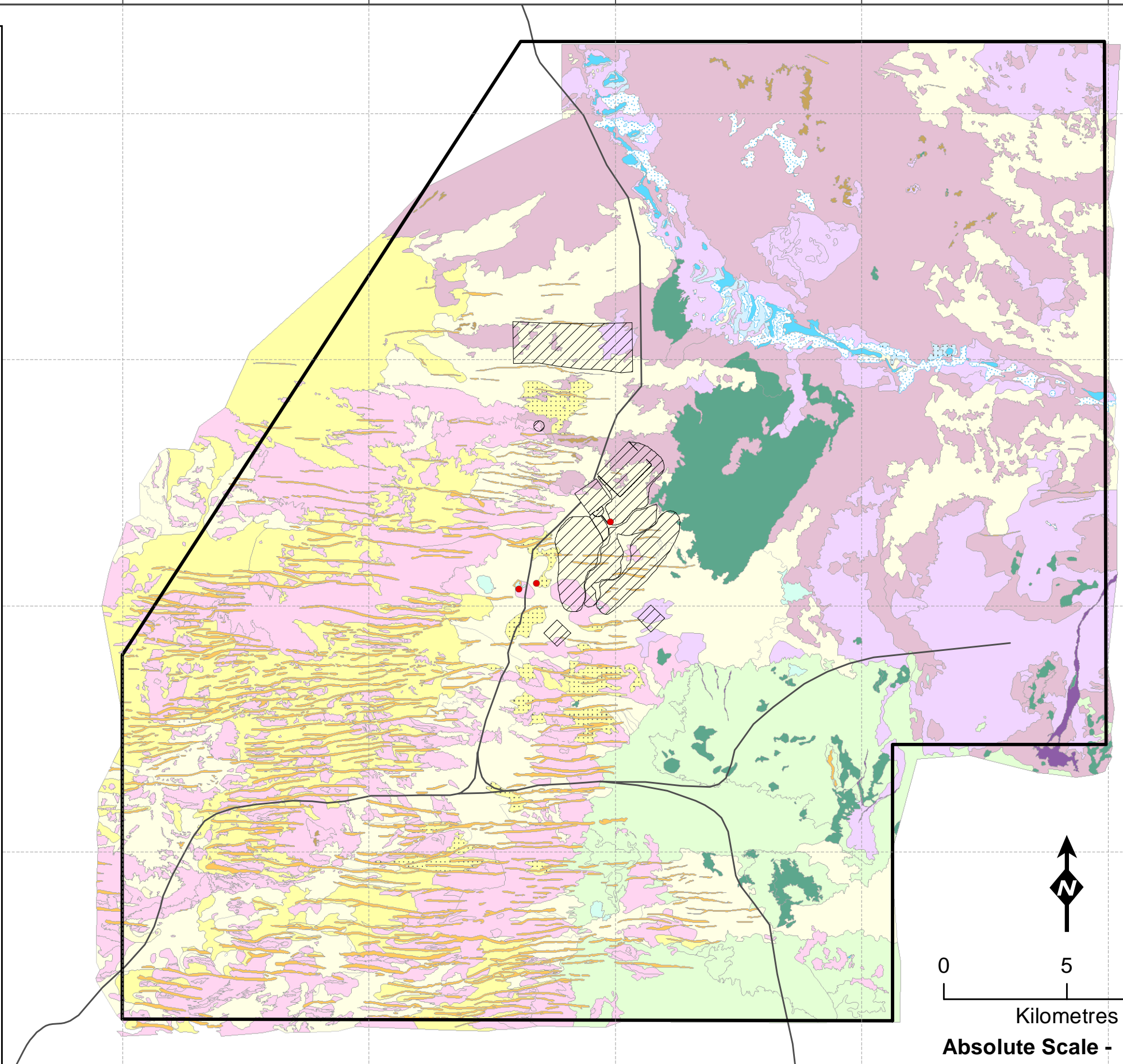
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Legend

- *Acacia eremophila* var. *variabilis*
- ex.Lt2H Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H *Eucalyptus gongylocarpa* over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/*Eremophila platythamnos* subsp. *platythamnos* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H *Eucalyptus gongylocarpa*/*E. youngiana*/*E. concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H Scattered *E. gongylocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H Undulating plains: Open mallee *Eucalyptus concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G Clay Pan: Scattered *Acacia nyssophylla*/*Grevillea sarissa* over open herbs and grasses.
- kxZ.GF White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/*Atriplex vesicaria* over sparse cover of *Eragrostis pergracilis*/*Aristida contorta*.
- m7S.kxZ.G Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/*Senna artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH *Acacia aneura* woodlands over grasses+/*Triodia basedowii*.
- a1L.al1a9S.t2H Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/*Acacia ramulosa* var. *ramulosa* over *Eremophila forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G Rocky breadaways and associated slopes: Open *Acacia quadrimarginata*/*Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.
- Access Road
- ▨ Conceptual Site Layout Dec 08
- ▭ EIA Survey Area




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 Kilometres
Absolute Scale - 1:176,337



Distribution of *Acacia eremophila* var. *variabilis* (P3) within the survey area

Figure: 5.11
Project ID: 717
Coordinate System
Name: GDA 1994 MGA Zone 51
Projection: Transverse Mercator
Datum: GDA 1994

Drawn: SG
Date: 10/03/09



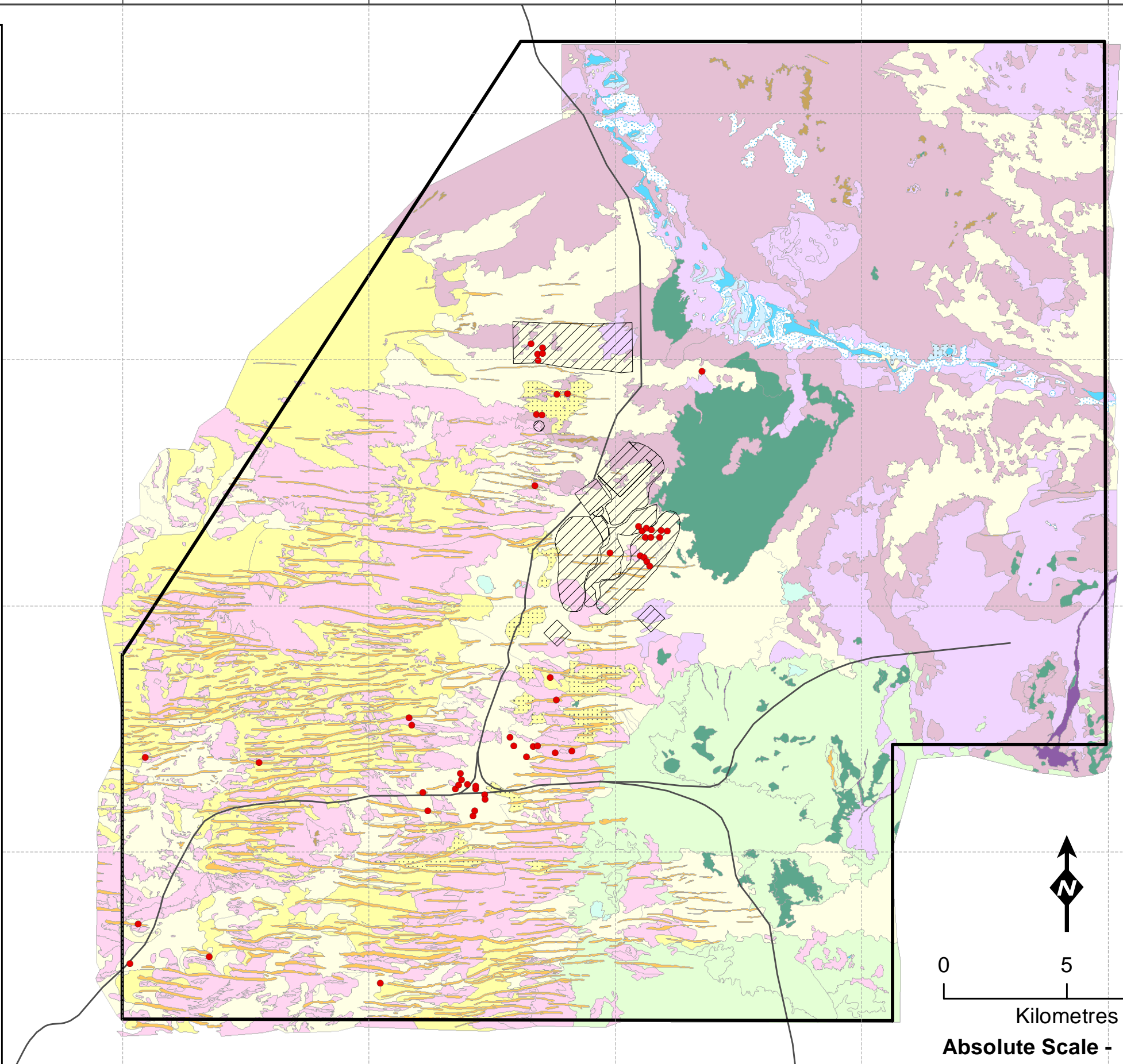
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Legend

- *Dicrasyllis cundeeleensis*
- ex.Lt2H
Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H
Eucalyptus gonglyocarpa over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/*Eremophila platythamnos* subsp. *platythamnos* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H
Eucalyptus gonglyocarpa/*E. youngiana*/*E. concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H
Scattered *E. gonglyocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H
Undulating plains: Open mallee *Eucalyptus concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS
Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G
Clay Pan: Scattered *Acacia nyssophylla*/*Grevillea sarissa* over open herbs and grasses.
- kxZ.GF
White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G
Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/*Atriplex vesicaria* over sparse cover of *Eragrostis pergracilis*/*Aristida contorta*.
- m7S.kxZ.G
Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G
Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/*Senna artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH
Acacia aneura woodlands over grasses+/- *Triodia basedowii*.
- a1L.al1a9S.t2H
Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/*Acacia ramulosa* var. *ramulosa* over *Eremophila forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G
Rocky breadaways and associated slopes: Open *Acacia quadrimarginata*/*Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G
Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G
Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.
- Access Road
- Conceptual Site Layout Dec 08
- EIA Survey Area



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 Kilometres
Absolute Scale - 1:176,337



Distribution of *Dicrasyllis cundeeleensis* (P3) within the survey area

Figure: 5.12
Project ID: 717
Coordinate System
Name: GDA 1994 MGA Zone 51
Projection: Transverse Mercator
Datum: GDA 1994

Drawn: SG
Date: 10/03/09



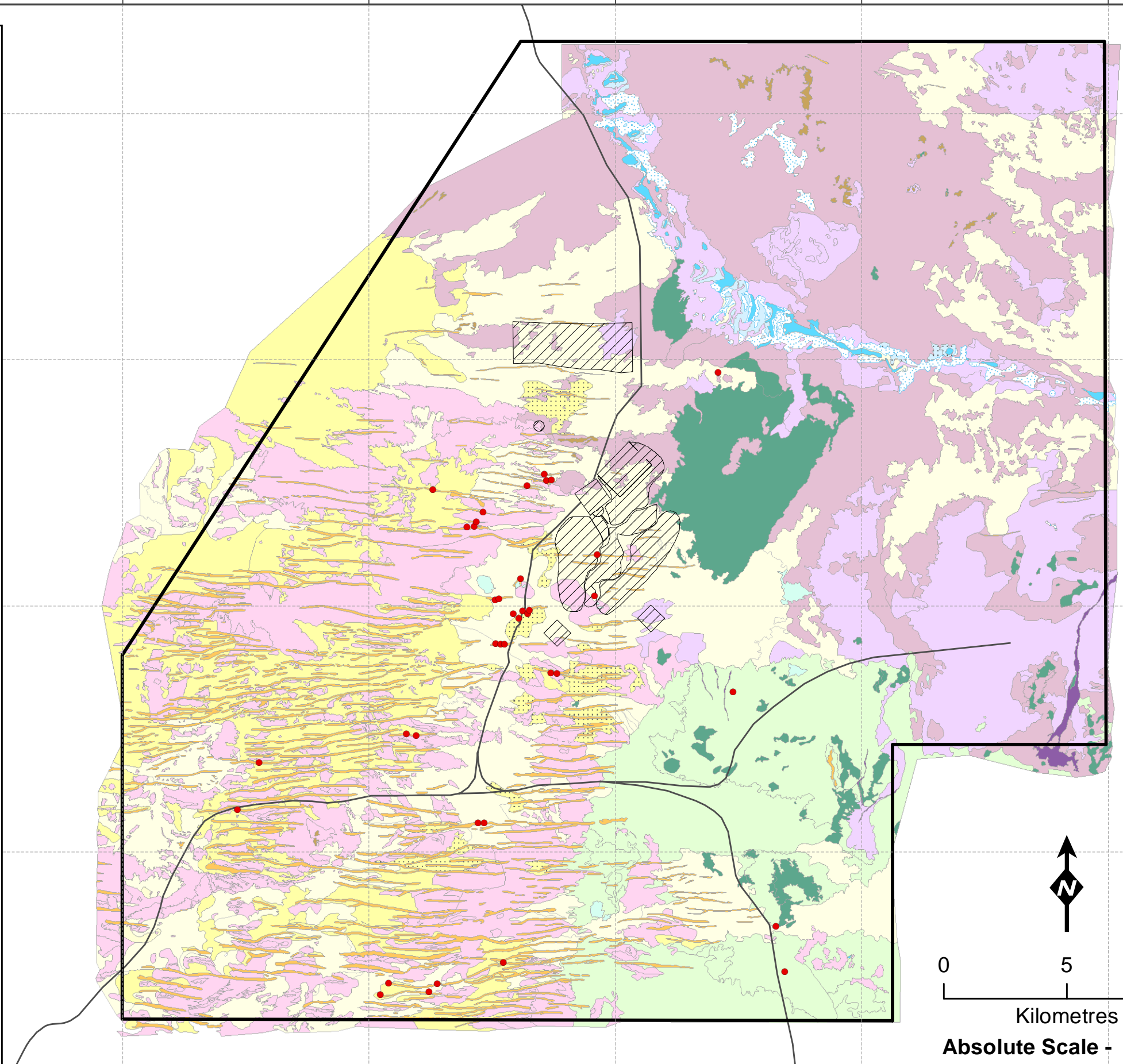
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Legend

- *Microcorys macredieana*
- ex.Lt2H Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H *Eucalyptus gonglyocarpa* over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/*Eremophila platythamnos* subsp. *platythamnos* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H *Eucalyptus gonglyocarpa*/*E. youngiana*/*E. concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H Scattered *E. gonglyocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H Undulating plains: Open mallee *Eucalyptus. concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G Clay Pan: Scattered *Acacia nyssophylla*/*Grevillea sarissa* over open herbs and grasses.
- kxZ.GF White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/*Atriplex vesicaria* over sparse cover of *Eragrostis pergracilis*/*Aristida contorta*.
- m7S.kxZ.G Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/*Senna artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH *Acacia aneura* woodlands over grasses+/*Triodia basedowii*.
- a1L.al1a9S.t2H Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/*Acacia ramulosa* var. *ramulosa* over *Eremophila forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G Rocky breadaways and associated slopes : Open *Acacia quadrimarginata*/*Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.
- Access Road
- ▨ Conceptual Site Layout Dec 08
- ▭ EIA Survey Area




 0 5 10
 Kilometres
Absolute Scale - 1:176,337



Distribution of *Microcorys macredieana* (P3) within the survey area

Figure: 5.13
Project ID: 717
Coordinate System
Name: GDA 1994 MGA Zone 51
Projection: Transverse Mercator
Datum: GDA 1994

Drawn: SG
Date: 10/03/09



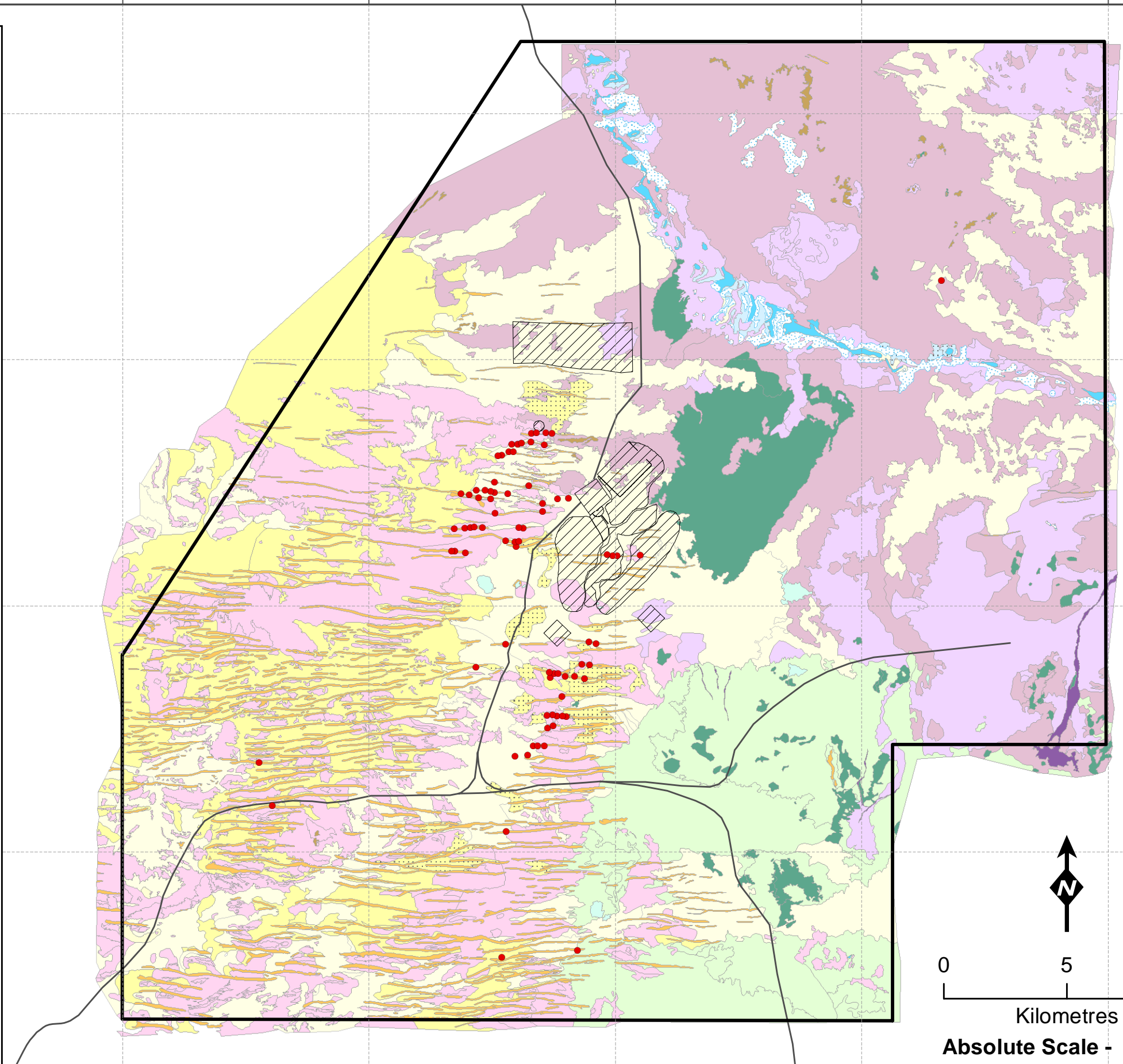
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Legend

- *Micromyrtus stenocalyx*
- ex.Lt2H
Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H
Eucalyptus gonglyocarpa over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/*Eremophila platythamnos* subsp. *platythamnos* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H
Eucalyptus gonglyocarpa/*E. youngiana*/*E. concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H
Scattered *E. gonglyocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H
Undulating plains: Open mallee *Eucalyptus concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS
Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G
Clay Pan: Scattered *Acacia nyssophylla*/*Grevillea sarissa* over open herbs and grasses.
- kxZ.GF
White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G
Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/*Atriplex vesicaria* over sparse cover of *Eragrostis pergracilis*/*Aristida contorta*.
- m7S.kxZ.G
Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G
Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/*Senna artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH
Acacia aneura woodlands over grasses+/*Triodia basedowii*.
- a1L.al1a9S.t2H
Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/*Acacia ramulosa* var. *ramulosa* over *Eremophila forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G
Rocky breadaways and associated slopes: Open *Acacia quadrimarginata*/*Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G
Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G
Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.
- Access Road
- Conceptual Site Layout Dec 08
- EIA Survey Area



0 5 10
 Kilometres
Absolute Scale - 1:176,337



Distribution of *Micromyrtus stenocalyx* (P3) within the survey area

Figure: 5.14
Project ID: 717
Coordinate System
Name: GDA 1994 MGA Zone 51
Projection: Transverse Mercator
Datum: GDA 1994

Drawn: SG
Date: 10/03/09



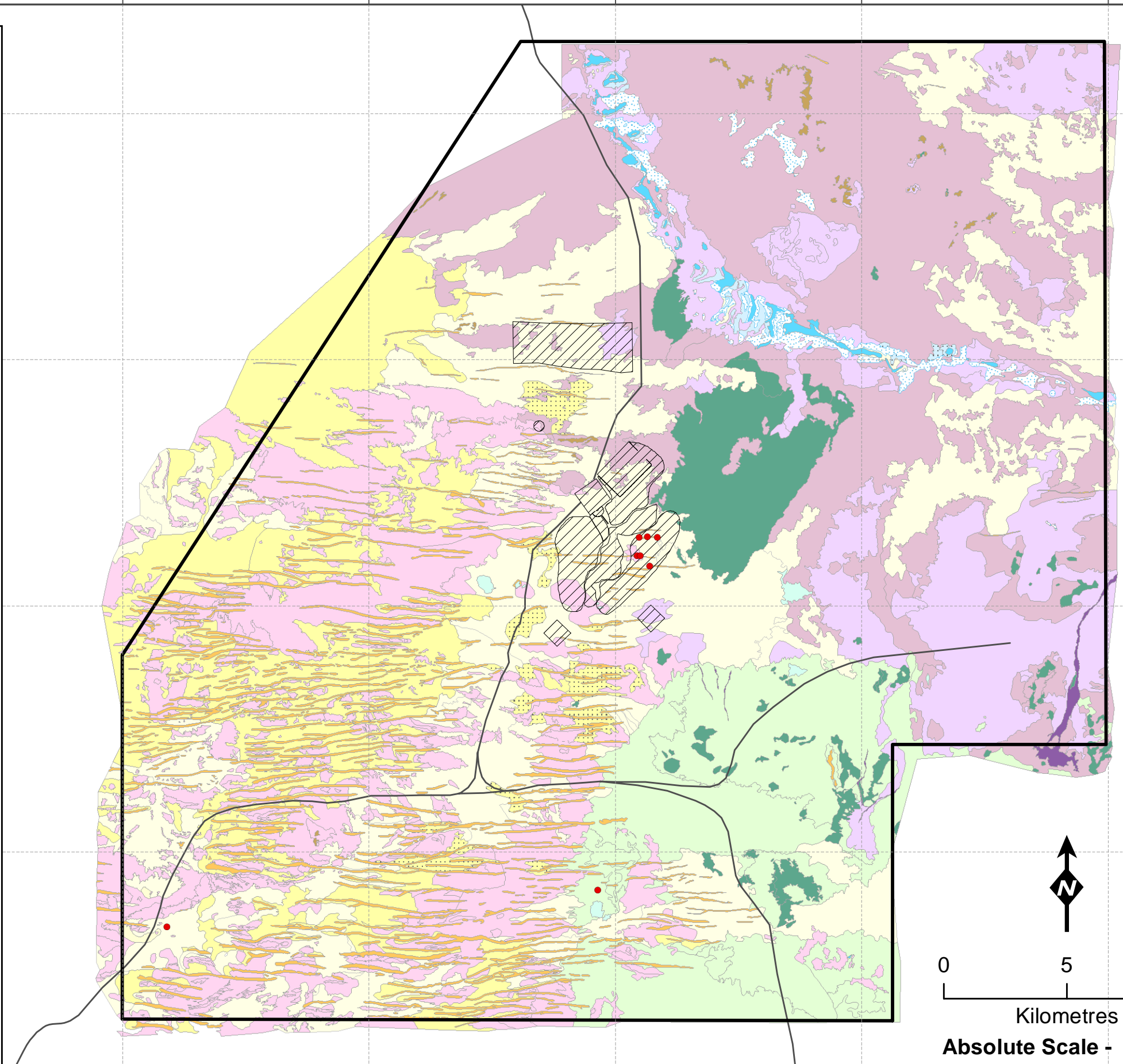
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Legend

- *Daviesia purpurascens*
- ex.Lt2H Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H *Eucalyptus gonglyocarpa* over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/Eremophila *platythamnus* subsp. *platythamnus* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H *Eucalyptus gonglyocarpa*/E. *youngiana*/E. *concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H Scattered *E. gonglyocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H Undulating plains: Open mallee *Eucalyptus concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G Clay Pan: Scattered *Acacia nyssophylla*/Grevillea *sarissa* over open herbs and grasses.
- kxZ.GF White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/Atriplex *vesicaria* over sparse cover of *Eragrostis pergracilis*/Aristida *contorta*.
- m7S.kxZ.G Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/Senna *artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH *Acacia aneura* woodlands over grasses+/- *Triodia basedowii*.
- a1L.al1a9S.t2H Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/ *Acacia ramulosa* var. *ramulosa* over Eremophila *forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G Rocky breadaways and associated slopes : Open *Acacia quadrimarginata*/*Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.
- Access Road
- ▨ Conceptual Site Layout Dec 08
- EIA Survey Area



0 5 10
Kilometres
Absolute Scale - 1:176,337



Distribution of *Daviesia purpurascens* (P4) within the survey area

Figure: 5.15
Project ID: 717
Coordinate System
Name: GDA 1994 MGA Zone 51
Projection: Transverse Mercator
Datum: GDA 1994

Drawn: SG
Date: 10/03/09



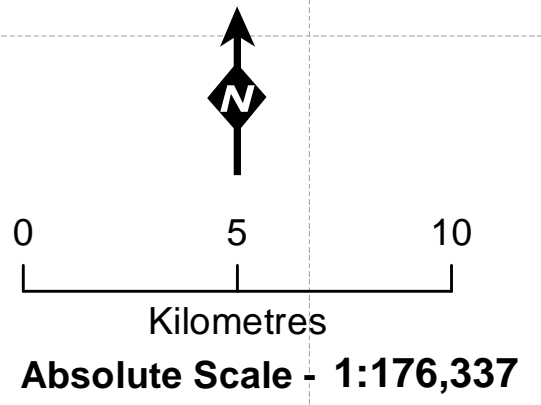
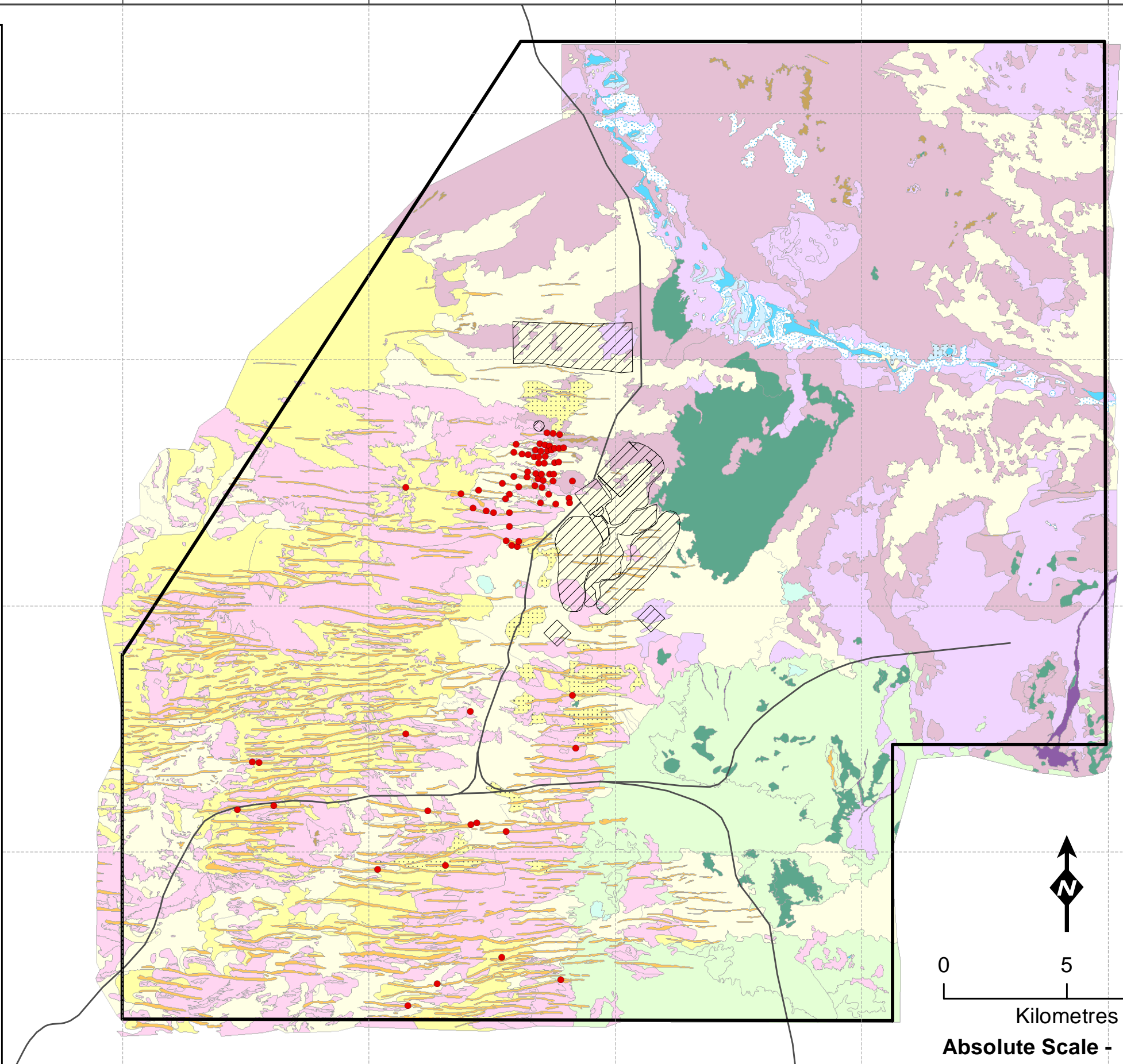
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Legend

- *Lepidobolus deserti*
- ex.Lt2H Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H *Eucalyptus gonglyocarpa* over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/*Eremophila platythamnos* subsp. *platythamnos* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H *Eucalyptus gonglyocarpa*/*E. youngiana*/*E. concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H Scattered *E. gonglyocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H Undulating plains: Open mallee *Eucalyptus. concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G Clay Pan: Scattered *Acacia nyssophylla*/*Grevillea sarissa* over open herbs and grasses.
- kxZ.GF White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/*Atriplex vesicaria* over sparse cover of *Eragrostis pergracilis*/*Aristida contorta*.
- m7S.kxZ.G Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/*Senna artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH *Acacia aneura* woodlands over grasses+/- *Triodia basedowii*.
- a1L.al1a9S.t2H Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/*Acacia ramulosa* var. *ramulose* over *Eremophila forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G Rocky breadaways and associated slopes : Open *Acacia quadrimarginata*/*Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.
- Access Road
- ▨ Conceptual Site Layout Dec 08
- EIA Survey Area



Distribution of *Lepidobolus deserti* (P4) within the survey area

Figure: 5.16
Project ID: 717
Coordinate System
Name: GDA 1994 MGA Zone 51
Projection: Transverse Mercator
Datum: GDA 1994

Drawn: SG
Date: 10/03/09



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5.2.6 Flora potentially of conservation significance

Caesia talingka ms (C Tauss)

This taxon is significant from a conservation perspective although its formal conservation status is still to be determined. It was initially recorded in 2005 from one collection within the wider Tropicana JV tenements (51J 648270/ 6756360 (WGS84) on a sand dune with *Eucalyptus* species over low mixed shrubs but was subsequently observed to occur on a large number of sand dunes surveyed in the southern section of the project area, with more than 1000 plants recorded.

The initial specimen was determined as *Caesia rigidifolia* (P1) on the advice of Greg Keighery, DEC Principal Research Scientist. *Caesia rigidifolia* is of high conservation significance, as this species is only known from one type collection., made by the Earnest Giles expedition in 1875 (Queen Victoria Spring, north of Zanthus, Oct. 1875, J.Z. Young), and was previously believed to be extinct (G. Keighery, DEC, pers. comm.). However after examination by *ecologia* of the original 1875 type specimen of *Caesia rigidifolia* (on loan from the Melbourne Herbarium) in May 2007, the initial identification of the specimen collected by *ecologia* in 2005 was revised and given the manuscript name *Caesia talingka*. *C. rigidifolia* is distinguished from *Caesia talingka* ms by non-viscid leaves; thickened, pale leaf margins and fibrous roots

Caesia talingka C Tauss ms appears most closely related to *C. viscida* (known from Cape Arid) but is distinguished by its more robust habit, leaf venation, subulate bracts, ascending inflorescence, and adaxially-appendaged, apiculate sepals, smooth testa, inland distribution and xeric habitat (C Tauss, 2009). In April 2007, while conducting further research, several additional collections were made of another *Caesia* species from the Great Victoria Desert. Although complete inflorescences were not present on these specimens, they were otherwise a close match for the type specimen of *C. rigidifolia* as published by colonial botanist F. Mueller in 1877. A detailed study of the relevant taxa within *Caesia* (including the taxa above known from the Great Victoria Desert) has been initiated to fully describe the species of the Great Victoria Desert to provide a meaningful basis for the determination of the conservation significance of these taxa. *C. talingka* ms is now been registered by the Western Australian Herbarium within the Census of Western Australian Plants. A draft paper describing this species has been prepared and, subject to editorial review, will be published within *Nuytsia* at a future date.



Plate 5-15 *Caesia talingka* ms



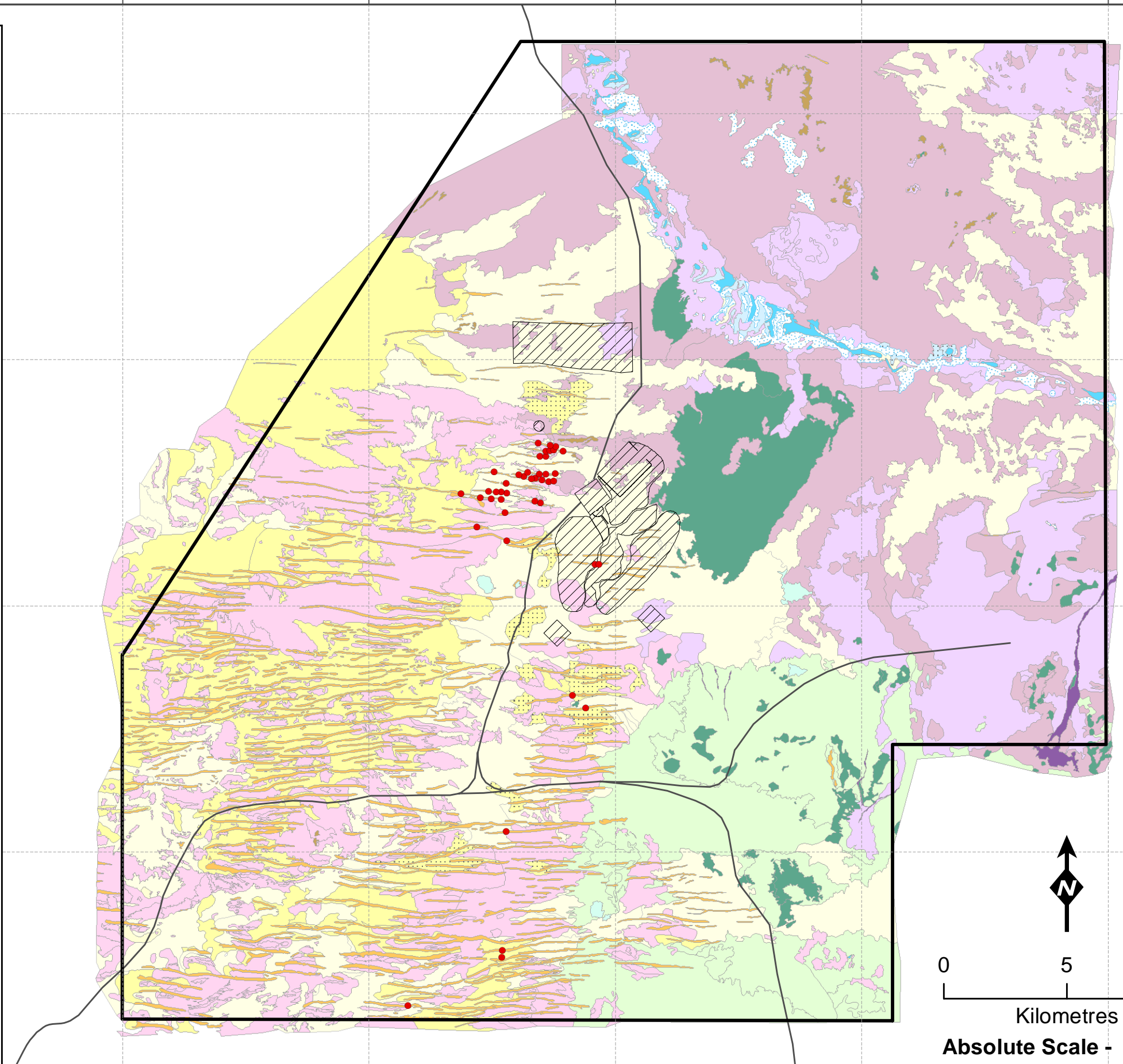
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Legend

- *Caesia talingka* C. Tauss ms
- ex.Lt2H Mixed Eucalypt woodlands over mixed open shrubs over *Triodia basedowii*.
- e19L.t2t7H *Eucalyptus gonglyocarpa* over open shrubland over open *Dodonaea viscosa* subsp. *angustissima*/*Eremophila platythamnos* subsp. *platythamnos* shrubland over *Triodia desertorum* or *T. basedowii*.
- e19exL.xS.t7H *Eucalyptus gonglyocarpa*/*E. youngiana*/*E. concinna* over open mixed shrubland over *Triodia desertorum*.
- xS.t2t7H Scattered *E. gonglyocarpa* over mixed shrubs and *Triodia desertorum* or *T. basedowii*.
- e71LxZ.t8H Undulating plains: Open mallee *Eucalyptus concinna* over sparse to open low shrubs over open *Triodia scariosa*.
- c2ex.xS Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*.
- a33g3S.G Clay Pan: Scattered *Acacia nyssophylla*/*Grevillea sarissa* over open herbs and grasses.
- kxZ.GF White to grey-brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses.
- k3k1Z.G Pale orange to orange clay pans: Low open to sparse scrub dominated by *Frankenia cinerea*/*Atriplex vesicaria* over sparse cover of *Eragrostis pergracilis*/*Aristida contorta*.
- m7S.kxZ.G Shallow depressions and areas fringing some claypans: Moderately dense *Melaleuca interioris* shrubland over sparse chenopods and soft grasses.
- exc2.kxZ.G Mallee Eucalypts ± *Casuarina pauper* over *Dodonaea viscosa* subsp. *angustissima*/*Senna artemisioides* subsp. *petiolaris* over Chenopod species and soft grasses.
- a1L.GH *Acacia aneura* woodlands over grasses+/*Triodia basedowii*.
- a1L.al1a9S.t2H Open to moderately dense *Acacia aneura* over *Aluta maisonneuvei* subsp. *auriculata*/*Acacia ramulosa* var. *ramulosa* over *Eremophila forrestii* subsp. *forrestii* over *Triodia basedowii*.
- a14d4S.G Rocky breadaways and associated slopes: Open *Acacia quadrimarginata*/*Dodonaea rigida* over sparse mixed shrubs over mixed soft grasses.
- xZ.G Isolated to sparse *Acacia* spp. trees or shrubs over mixed low shrubs over moderately dense to closed grassland.
- a1L.k1k2Z.G Narrow drainage channel: Sparse *Acacia aneura* over sparse to open shrubs and scattered to moderately dense tussock grasses.
- Access Road
- ▨ Conceptual Site Layout Dec 08
- ▭ EIA Survey Area




 0 5 10
 Kilometres
Absolute Scale - 1:176,337



**Distribution of
Caesia talingka
 C. Tauss ms (SOI)
 within the survey area**

Figure: 5.17
Project ID: 717
 Coordinate System
 Name: GDA 1994 MGA Zone 51
 Projection: Transverse Mercator
 Datum: GDA 1994

Drawn: SG
Date: 10/03/09



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5.2.7 Species of taxonomic interest

Acacia aff. sorophylla

This taxon was referred to a specialist taxonomist, Dr. Bruce Maslin who suggested it may be a new taxon, most closely related to *Acacia sorophylla*, which occurs on the Esperance sandplains, and less closely to *Acacia camptoclada*, which is relatively common in the Tropicana area. It is likely that the status of this taxon will remain unresolved for some time until further taxonomic research can be conducted. The distribution of this species locally is likely to be more widespread than records to date suggest, as in previous surveys and at the time of the current survey, the species was thought to be *Acacia camptoclada* relatively abundant and widespread species in the survey area.

Within the survey it was recorded at a number of locations primarily in the south west but also in the north on dune vegetation and the Eucalypt woodlands surrounding them.

5.2.8 Range extensions

Species at their range limits may exhibit clinal variations which are manifestations of the evolution of the taxon's genetic complement. Areas in which a large proportion of the flora are at the edges of their distribution may therefore be areas in which speciation is more pronounced and therefore be of greater importance in the evolution of the flora.

However since ranges are defined by the collections lodged at the WA Herbarium, apparent range extensions may also be an artefact of a small number of lodgements and/or a lack of surveys in an area i.e. a lack of knowledge rather than the genuine limit of distribution. This is a common problem within the Eremaean Province of Western Australia, where surveys are often of limited extent and there are large areas in which little or no systematic collection has occurred. Furthermore, since specimen lodgement is commonly confined to species listed as DRF or Priority status, knowledge of the distribution of many species which are not listed remains incomplete.

Table 5-4 below details the species recorded during the current survey that appear to be beyond or at the limits of their known range, based on distributions published in FloraBase. Approximately 8% of the taxa were apparent range extensions. . The TGP lies within the southern portion of the Great Victoria Desert IBRA Region, bordered to the west by the Murchison, and to the south by the Coolgardie and Nullarbor Regions. The relative proximity of the TGP to the boundaries of these regions means that its flora is likely to contain elements of them, some of which are at the edges of their distribution.



Table 5-4 Species within the survey area recording range extensions

Genus species	Range Extension
<i>Abutilon oxycarpum</i> subsp. <i>prostratum</i>	south eastern extension
<i>Acacia</i> aff. <i>sorophylla</i>	<i>Acacia sorophylla</i> occurs near Esperance. As discussed in Section 5.2.6 this taxon is morphologically distinct and requires more research.
<i>Acacia aneura</i> var. <i>intermedia</i>	minor south eastern extension
<i>Acacia coolgardiensis</i> subsp. <i>coolgardiensis</i>	minor north eastern range extension
<i>Acacia eremophila</i> numerous-nerved variant (A.S. George 11924)	At the northern limit of range
<i>Acacia eremophila</i> var. <i>variabilis</i>	North eastern extension
<i>Acacia sibilans</i>	south eastern extension
<i>Allocasuarina corniculata</i>	north eastern extension
<i>Austrostipa elegantissima</i>	eastern extension probably due to limited collection and lodgement of grasses in this area
<i>Calandrinia balonensis</i>	minor southern extension
<i>Chenopodium melanocarpum</i> forma <i>melanocarpum</i>	north eastern extension
<i>Chenopodium nitrariaceum</i>	south eastern extension
<i>Daviesia</i> aff. <i>gracilis</i>	South western species from near Esperance, identity of this collection requires further resolution
<i>Dicrastylis cordifolia</i>	Large southern extension. This taxon does occur in Great Sandy Desert, further verification of identity required
<i>Eremophila fraseri</i>	south eastern extension
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>	slight south eastern ext
<i>Eriochloa</i> ? <i>pseudoacrotricha</i> .	There are no <i>Eriochloa</i> species currently recorded in GVD. Originally identified as <i>Eriochloa</i> sp., <i>E. pseudoacrotricha</i> is the most likely based on distribution but is nevertheless a south eastern range extension. Further verification of identity is required
<i>Erodium carolinianum</i>	western extension
<i>Eucalyptus eremicola</i> subsp. <i>eremicola</i>	only two other collections so range difficult to establish
<i>Eucalyptus gamophylla</i>	slight southern extension
<i>Goodenia scaevolina</i>	One other record from the QVSNR, however all other records from the Kimberley and Pilbara. At the southern limits of range
<i>Hakea rhombales</i>	southern extension
<i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i>	eastern extension
<i>Lepidium platypetalum</i>	minor eastern extension
<i>Maireana brevifolia</i>	eastern extension



Genus species	Range Extension
<i>Psyrax attenuata</i>	minor southern extension
<i>Senna</i> sp. Billabong (J.D. Alonzo 721)	eastern extension
<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	minor south eastern extension
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)	minor eastern extension
<i>Swainsona phacoides</i>	southern extension
<i>Tecticornia</i> ?aff. <i>undulata</i>	slight eastern extension but probably just poorly lodged
<i>Urochloa</i> ? <i>piligera</i>	southern extension
<i>Wilsonia</i> sp.	north eastern extension as all <i>Wilsonia</i> species occur south or west of Kalgoorlie, however an incomplete specimen so determination incomplete



5.3 Naturalised Alien Taxa

Introduced flora species which are, or have the potential to become, weeds to agriculture can be formally declared under the *Agriculture and Related Resources Protection Act 1976* (ARRP Act). Declared Weeds listed under the ARRP Act are categorised by a coded definition of the requirements for control. There are five categories and more than one category may be placed on a Declared Weed. These categories are explained in Appendix D.

Three weed species have been recorded in the within survey area; **Sonchus oleraceus*, **Spergularia rubra* and **Erodium aureum*. This compares favorably with Queen Victoria Spring Nature Reserve, within which eleven weed species have been recorded. The low incidence and abundance of weed species is probably the result of several factors;

- the absence of pastoral activities, which are a major cause of introduction and dispersion of weeds
- The low level of non-Aboriginal human activity until relatively recently. Prior to the instigation of mining exploration, movements within the area have been severely restricted by the paucity of tracks, inhibiting the introduction and spread of weeds.
- The relatively dry environment. The absence of fresh water at ground level is not conducive to many introduced species

****Spergularia rubra* Sand Spurry**

**Spergularia rubra* is a low spreading to ascending herb to 20 cm high with fleshy leaves and pink to purple flowers. It grows on sand and sandy clay, especially around salt lakes, claypans, river flats and granite outcrops. Flowers appear from July to December and are pink to purple. It has a sporadic distribution from Shark Bay to Esperance in estuarine and saline areas. It is interesting to note that this taxon was collected from the Queen Victoria Spring area as early as 1891.



Figure: Sand Spurry (Spergularia rubra*)**

Copyright: The Weeds Society of WA Inc.
http://members.iinet.net.au/~weeds/western_weeds/caryophylla2.htm

To date this taxon has been recorded from only one location at (UTM, WGS84, Zone 51 J) 663517 mE, 6770396 mN.



****Sonchus oleraceus* (Sowthistle)**

Sonchus oleraceus is an erect, annual herb up to 1.5 m tall with flaccid leaves and yellow daisy flowers. It is widespread throughout Western Australia.



This taxon was recorded at one location within the survey area at (UTM, WGS84, Zone 51J) 663519 m E 6770334m N in low abundance.

****Erodium aureum***

Erodium aureum is a spreading, short lived annual to 20 cm with deeply lobed leaves, pink flowers and a fruit “beak” 5-7 cm long. It is a common weed of loam soils in arid zones and is widespread throughout Western Australia south of Shark Bay.

Within the survey area this taxon was recorded at one location at (UTM, WGS84, Zone 51J) 663519 m E 6770334m N in low abundance.





6.0 CONSERVATION SIGNIFICANCE

6.1 CONSERVATION SIGNIFICANCE OF FLORA AND VEGETATION ASSEMBLAGES

6.1.1 Biodiversity

The survey area supports a high number of taxa as compared to other semi arid areas, as illustrated by Table 6-1. Whilst the number of species present per unit area at each location listed below would be influenced to some degree by different intensities of survey effort, it is apparent that the Tropicana survey area has relatively high species richness per unit area, even compared to Queen Victoria Spring Nature Reserve approximately 70 km to the south. The larger area covered by relatively species-depauperate vegetation assemblages from the Eucla (Nullarbor Plain) in the QVSNR may contribute to its lower species richness per unit area.

Pearson (1994) noted that the “moderately high” species richness of the QVNR compared to many other semi-arid locations was at least in part due to its location. Straddling the three phytogeographic regions, the Austin, Helms and Coolgardie (now referred to as the Murchison, Great Victoria Desert and Coolgardie IBRA regions respectively), the floristic composition of the reserve contains elements from each region. The Tropicana Gold Project Area lies approximately 70 km further north east and hence wholly within the Great Victoria Desert Region. Nevertheless it still supports elements from both the Murchison and Coolgardie Regions. As in the QVSNR, the presence of a saline drainage system also contributes to a greater degree of heterogeneity. These saline areas are typically species poor, but support some taxa unlikely to be present elsewhere. The saline drainage areas within the wider Tropicana JV tenement package do not extend across a large proportion of the area but contribute a suite of species which would otherwise not be recorded.

Table 6-1 Comparison of species per unit area in semi arid (adapted from Pearson, 1994)

Location	No Species	Area (km ²)	Species /1000 km ²	Source
Tropicana EIA Survey	448	1,356	328	This survey
Queen Victoria Spring Nature Reserve	540	2,726	198	Pearson (1994)
Yellabinna region, S.A.	686	44,200	15.5	Ronson and Canty, 1992
Uluru National Park, N.T.	533	1,325	402.3	Griffin and Nelson, 1983
Karinjini National Park	481	5,000	96.2	Trudgen, cited in Keighery and Gibson, 1993



Location	No Species	Area (km ²)	Species /1000 km ²	Source
Purnululu National Park	616	3,193	192	Menkhorst and Cowie, 1992
Barrow Island	213	233	914	Buckley, 1983
Pyramid Lake-Mt. Beaumont, Esperance W.A.	1,351	12,000	112.5	Burgman and Newbey, 1990
Cape Range Peninsula	630	2,185	288	Keighery and Gibson, 1993
Kalgoorlie-Kurnalpi	491	6,600	74.4	Keighery <i>et al</i> , cited in Keighery and Gibson, 1993
Widgemooltha-Zanthus	560	c 6,600	84.8	Newbey and Hnatiuk, in Keighery and Gibson, 1984

6.1.2 National or state significance of the vegetation assemblages of the survey area

At a National level, Threatened Ecological Communities are protected under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act 1999). This lists species and communities that are considered Critically Endangered, Endangered, Vulnerable, Conservation Dependent, Extinct or Extinct in the Wild

The Western Australian Department of Environment and Conservation (DEC) also maintains a list of Threatened Ecological Communities that are considered to be Critically Endangered, Endangered or Vulnerable (using the same criteria as TECs in the EPBC Act 1999).

No federally or state-listed Threatened Ecological Communities have been recorded within the project area.

Possible threatened ecological communities that do not meet survey criteria or that are not adequately defined are added to the Department's Priority Ecological Community Lists under Priorities 1, 2 and 3. These three categories are ranked in order of priority for survey and/or definition of the community, and evaluation of conservation status, so that consideration can be given to their declaration as threatened ecological communities. Ecological Communities that are adequately known, and are rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list, are placed in Priority 4. These ecological communities require regular monitoring. Conservation Dependent ecological communities are placed in Priority 5. The criteria used to rank Priorities are detailed in Appendix E.



A Priority 3 ecological community, Yellow sandplain communities of the Great Victoria Desert, has been identified as occurring to the south of the survey area. This PEC was originally listed on the basis of the survey of the Queen Victoria Springs Nature Reserve due to:

“the high degree of small vertebrate diversity (more species of small terrestrial reptile and mammal species per hectare than anywhere in WA), unusual combinations of species (mixture of SW and arid), high numbers of threatened vertebrate species and a hot spot for mallee eucalypt species as well as other rare/poorly known plant species.” The listing as a Priority 3 ecosystem at risk is on the basis of a perceived risk from mining (J Pryde, DEC, comm. 2009)

No further information regarding the defining vegetation characteristics is available at present. Although the southern boundary of this community type has been determined, the northern boundary has not been confirmed thus at present it is unclear if any portion of the current survey area lies within the PEC.

6.1.3 Regional significance of the vegetation assemblages of the survey area

To evaluate the conservation significance of the vegetation units present in a regional context, it is necessary to estimate the degree to which these assemblages are present elsewhere in the region. In this context the scale at which assemblages are defined is highly relevant since, at the finest scale of classification, all vegetation will be unique, whilst at a broad scale most complexes will be represented elsewhere in the regions.

The lack of regional vegetation mapping at an appropriate scale is a significant obstacle. Mapping over the entire region was conducted by Beard in 1974 at a scale of 1:1,000,000, hampered by the restricted access, which necessitated extrapolation of vegetation complexes solely on the basis of imagery across large areas. With improved access, some errors, for example in the distribution of *Triodia basedowii* (Pearson, 1994) have become apparent.

Beard (1975) described five vegetation units within the survey area. The proportion of all vegetation within the GVD and the proportion of the survey area covered by each of these units is summarised in Table 6-2. Two units have restricted distribution within the GVD and on this basis can be considered to have higher regional conservation significance:

(i) Unit $a_1c_2Lr t_2Hi$; Tree steppe *Acacia aneura* (mulga) / *Casuarina pauper* (sheoak) [syn. *C. cristata*] woodland on sandplain,

This unit occupies only 0.44% of the total area of the GVD but occupies 38% of the area of the survey area. On the basis of this data the area within the survey area is a significant proportion of a poorly represented unit. However this estimate of 38% of the total area is not supported by the finer scale mapping conducted during the current survey. Beard's unit corresponds relatively closely to unit $C_2e_xL.xS$; Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*, which has been mapped at a scale of 1:20,000 across only 3.7% of the survey area. As observed by Pearson in his survey of the QVSNR, this unit interdigitates closely with the *Acacia aneura* woodlands, making it difficult to accurately map, and it is likely that Beard has over estimated its representation in the survey area, particularly in the northern distribution of the unit.

(ii) Unit k_1,k_2Ci ; Lightly wooded succulent steppe: *Acacia aneura* (mulga) with *Atriplex* (Saltbush) or *Kochia* (now *Maireana*)



This is the most poorly represented unit, occupying only 4.5% the survey area. It is also very poorly represented within the GVD as a whole, with only 0.17% of all vegetation mapped as this unit. Although poorly represented on a regional basis, the unit is widespread, occurring as a series of narrow bands fringing saline lakes of the region, and as a larger area at the boundary of the Nyanga Plain in the Nullarbor Region. Mapping at 1:20,000 during the current survey confirmed that this unit is poorly represented, with all saline clay units covering a cumulative total of 1.4% of the total survey area.

The other three units present within the survey area are moderately or well represented both in the GVD as a whole and the survey area.

Table 6-2 Area of Beard vegetation units in the Tropicana survey compared to total area

Veg Unit		Area within Tropicana Survey Area (ha)	Total Area Within GVD (ha)	% Unit Within Survey Area	% Unit Total Veg. of GVD
k ₁ ,k ₂ Ci	Lightly wooded succulent steppe: <i>Acacia aneura</i> (mulga) with <i>Atriplex</i> (Saltbush) or <i>Kochia</i> (now <i>Maireana</i>)	5,841	38,716	4.54	0.17%
a ₁ c ₂ Lr t ₂ Hi	Tree steppe <i>Acacia aneura</i> (mulga) / <i>Casuarina pauper</i> (sheoak) [syn. <i>C. cristata</i>] woodland on sandplain	49,122	97,697	38.15	0.44%
e ₁₉ Mr e ₂₀ Sr t ₂ Hi	Hummock grasslands, open low tree and mallee steppe; <i>Eucalyptus gongylocarpa</i> and <i>E. youngiana</i> over <i>Triodia basedowii</i> on sandplain	16,598	2,231,736	12.89	10.07%
e ₁₉ Lr e ₂₀ Sr t ₂ Hi	Hummock grasslands, open low tree and mallee steppe; <i>Eucalyptus gongylocarpa</i> and <i>E. youngiana</i> over <i>Triodia basedowii</i> between sandhills	12,803	8,308,006	9.94	37.49%
a ₁ Li	<i>Acacia aneura</i> (mulga) low woodland between sand ridges	44,413	4,897,333	34.49	22.10%
Total		128,777	*22,161,435	100.00	70.27

*This is the area of all units within the GVD, including units not present within the survey area

At the finer scale of 1:20,000 at which the vegetation within the survey area was mapped, there is no mapping across the broader area of the GVD to enable an assessment of the rarity or otherwise of these units at a regional level. Pearson's 1994 mapping at 1:50,000 of the Great Victoria Spring Reserve approximately 70 km to the south provides some insight into the extent to which some of the vegetation types at Tropicana occur more broadly and also their representation within the conservation estate. The following units mapped by Pearson appear to overlap with the units within the survey area:

- Dunal vegetation: Although only four dunal sites were sampled in the QVSNR study, there appears to be a moderate degree of similarity to Type 3 dunal vegetation at Tropicana, particularly to Type 3(ii), "Occasional *Eucalyptus gongylocarpa* over *Callitris columellaris*/*Grevillea juncifolia* over *Acacia ligulata*/*Thryptomene seriata*/*Anthotroche pannosa* over *Triodia desertorum* or *T. basedowii*". However the spinifex *Triodia desertorum* (then *Plectrachne desertorum*) was the only hummock grass recorded at QVSNR.



- “*Eucalyptus gongylocarpa* tree steppe” as mapped in the QVSNR correlates to Type 2, *Eucalyptus gongylocarpa* over *Triodia desertorum* or *T. basedowii*. As for the dunal vegetation, whilst there are common elements in the upper stratum, the composition of the shrub stratum appears to have only a moderate degree of overlap.
- “Sandplain assemblage Mallee Shrublands correlates to Type 1 “Mixed Eucalypt woodlands”. As at Tropicana, Pearson observed a pattern of “large areas of mallee shrublands interdigitating with *Eucalyptus gongylocarpa* tree steppe” with a highly variable mix of *Eucalyptus* spp with “...no apparent alteration in edaphic conditions.” There is considerable overlap in the shrub stratum and some overlap in the *Eucalyptus* species present between these assemblages. In contrast, the dominant hummock grasses at QVSNR are *Triodia scariosa* or *T. desertorum*, whereas at Tropicana the dominant species is *T. basedowii*, although there are relatively large areas of *Triodia scariosa* woodlands near the southern boundary.
- “*Casuarina pauper* low woodland” within the QVSNR correlates to Type 9 “Open to moderately dense *Casuarina pauper* woodland over open mixed shrubs and scattered soft grasses and/or *Triodia scariosa*” within the current survey and to Beard’s unit a₁c₂Lr t₂Hi; “Tree steppe *Acacia aneura* (mulga) / *Casuarina pauper*(sheoak) [syn. *C. cristata*] woodland on sandplain”. These community types appear to correlate relatively closely. As at Tropicana, Pearson observed the tendency of these woodlands to interdigitate with *Acacia aneura* and other *Acacia* mallee Eucalypt shrublands, making their delineation on aerial photography difficult.

In summary there is a subset of the vegetation types delineated at Tropicana which correlate to those identified at QVSNR in terms of dominants and vegetation structure, but with considerable variation in the composition of the shrub stratum.

6.1.4 Local significance of the vegetation assemblages of the Survey Area

At a local scale, the abundance of each unit within the survey area is summarised in Table 6-3. The most abundant community types are the Type 1 Eucalypt woodlands over *Triodia basedowii* and Type 7 *Acacia aneura* woodlands, followed by the Type 2 *Eucalyptus gongylocarpa* woodlands over *Triodia desertorum* or *T. basedowii* and Open mallee *E. concinna* over sparse to open low shrubs over open *T. scariosa*.

Casuarina pauper woodlands, noted above as uncommon at a regional level, are also relatively restricted locally, comprising only 4% of the total area. However the most restricted assemblages are; those within the saline clay pan complex, accounting for less than 2% of the total area; shrublands associated with rocky breakaways (0.2%); and narrow drainage channel (0.2%). The saline complex in particular supports species which are not present elsewhere in the survey area. Each of these restricted communities is likely to provide specialised fauna habitats and is of local significance.



Table 6-3 Relative abundance of vegetation units in the Tropicana survey area

Primary classification	Subtypes	Vegetation code as mapped	Area within project (ha)	% of total area
1. Mixed Eucalypt woodlands over mixed open shrubs and <i>Triodia basedowii</i>	(i) Open to sparse <i>Eucalyptus youngiana</i> , <i>E. trivalva</i> or <i>E. leptopoda</i> over an open tall shrub stratum of <i>Acacia murrayana</i> over open to moderately dense <i>Triodia basedowii</i>	e _x L.t ₂ H	30,892	22.8
	(ii) Open <i>Eucalyptus youngiana</i> and sparse <i>Callitris preissii</i> over mixed shrubs over open to moderately dense <i>Triodia basedowii</i>			
	(iii) <i>Eucalyptus trivalva</i> over <i>Acacia</i> and <i>Eremophila</i> dominated shrubland over sparse to open <i>Triodia basedowii</i>			
2. <i>Eucalyptus gongylocarpa</i> (marble gum) over <i>Triodia desertorum</i> or <i>T. basedowii</i>	(i) <i>Eucalyptus gongylocarpa</i> over open shrubland over open <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> / <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> shrubland over <i>Triodia desertorum</i> or <i>T. basedowii</i>	e ₁₉ L.d ₃ e _{r1} S.t ₂ t ₇ H	15,427	11.2
	(ii) <i>Eucalyptus gongylocarpa</i> / <i>E. youngiana</i> / <i>E. concinna</i> over open mixed shrubland over <i>Triodia desertorum</i>	e ₁₉ e _x L.xS.t ₇ H	1,424	1.1
3. Dunes: Scattered <i>E. gongylocarpa</i> over mixed shrubs and <i>Triodia desertorum</i> or <i>T. basedowii</i> .	(i) Occasional <i>Eucalyptus gongylocarpa</i> over mixed upper stratum over <i>Daviesia grahamii</i> / <i>Pityrodia loricata</i> / <i>Chrysocephalum puteale</i> low shrubland over sparse to open <i>Triodia desertorum</i> or <i>T. basedowii</i> and <i>Lomandra leucocephala</i> subsp. <i>robusta</i> .	xS.t ₂ t ₇ H	6,009	4.4
	(ii) Occasional <i>Eucalyptus gongylocarpa</i> over <i>Callitris columellaris</i> / <i>Grevillea juncifolia</i> over <i>Acacia ligulata</i> / <i>Thryptomene seriata</i> / <i>Anthotroche pannosa</i> over <i>Triodia desertorum</i> or <i>T. basedowii</i>			
4. Undulating plains: Open mallee <i>Eucalyptus. concinna</i> over sparse to open low shrubs over open <i>Triodia scariosa</i>		e ₇₁ L.sZ.t ₈ H	13,518	10.0



Primary classification	Subtypes	Vegetation code as mapped	Area within project (ha)	% of total area
5. Major saline clay pan complex	(i) White clay pans and marginal vegetation: <i>Callitris preissii</i> over isolated shrubs and sparse herbs	k _x Z.GF	265	0.2
	(ii) Grey to brown clay pans: Dwarf scrub dominated by <i>Tecticornia</i> spp over <i>Eragrostis pergracilis</i>			
	(iii) Broad, shallow, pale brown, sandy-clay pans. Open <i>Chenopodium nitrariaceum</i> / <i>Muehlenbeckia florulenta</i> shrubland over moderately dense grasses and sedges			
	(iv) Pale orange to orange clay pans: Low open to sparse scrub dominated by <i>Frankenia cinerea</i> / <i>Atriplex vesicaria</i> over sparse cover of <i>Eragrostis pergracilis</i> / <i>Aristida contorta</i>	k ₃ k ₁ Z.G	426	0.3
	(v) Shallow depressions and areas fringing some claypans: Moderately dense <i>Melaleuca interioris</i> shrubland over sparse chenopods and soft grasses	M ₇ S.k _x Z.G	65.8	0.05
	(vi) Plains and gentle hillslopes at margins of saline complex: Sparse to open <i>Casuarina pauper</i> ± mallee Eucalypts over <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> / <i>Senna artemisioides</i> subsp. <i>petiolaris</i> over Chenopod species and soft grasses	e _x c ₂ L.k _x Z.G	1,281	0.9
6. Minor Clay Pan: Scattered <i>Acacia nyssophylla</i> / <i>Grevillea sarissa</i> over open herbs and grasses		a ₃₃ g ₃ S.xG	174	0.1
7. Clay loam Plains: <i>Acacia aneura</i> woodlands over soft grasses and <i>Triodia basedowii</i>	(i) Open <i>Acacia aneura</i> / <i>Eucalyptus</i> spp. woodland/shrubland over sparse mixed shrubs over soft grasses ☐ <i>Triodia basedowii</i>	a ₁ L.GH	28,088	20.7
	(ii) Moderately dense to dense <i>Acacia aneura</i> woodland over isolated shrubs over scattered to open <i>Triodia basedowii</i> and soft grasses			
	(iii) Open to moderately dense <i>Acacia aneura</i> over <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> / <i>Acacia ramulosa</i> var. <i>ramulosa</i> over <i>Eremophila forrestii</i> subsp. <i>forrestii</i> over <i>Triodia basedowii</i>	a ₁ L.a ₁ a ₉ S.t ₂ H	19,661	14.5
8. Open to moderately dense <i>Casuarina pauper</i> woodland over open mixed shrubs and scattered soft grasses and/or <i>Triodia scariosa</i>		C ₂ e _x L.xS	4991	3.7



Primary classification	Subtypes	Vegetation code as mapped	Area within project (ha)	% of total area
9. Isolated <i>Acacia</i> spp. over open low shrubs and moderately dense tussock grasslands	(i) Isolated <i>Acacia</i> spp over <i>Ptilotus obovatus</i> / <i>Maireana</i> spp./ <i>Solanum</i> spp. over moderately dense tussock grasses	xZ.G	12,678	9.4
	(ii) Isolated to sparse <i>Acacia</i> spp. over mixed low shrubs over moderately dense tussock grasses			
10. Rocky breakaways and associated slopes : Open <i>Acacia quadrimarginea</i> / <i>Dodonaea rigida</i> over sparse mixed shrubs over mixed soft grasses		a ₁₄ d ₄ S.G	221	0.2
11. Narrow drainage channel: Sparse <i>Acacia aneura</i> over sparse to open shrubs and moderately dense tussock grasses		a ₁ L.k ₁ k ₂ Z.G	243	0.2



6.2 CONSERVATION SIGNIFICANCE OF FLORA SPECIES

One Declared Rare Flora and fourteen Priority Flora taxa were collected during the survey.

The relatively large number of Priority species recorded within the area is considered to be a consequence of two factors;

- The sporadic and isolated history of collection and lodgement of specimens from the Bioregion, resulting in incomplete knowledge of the distribution of many taxa and consequently a high proportion of the total taxa recorded being listed; and/or
- The genuine rarity of some taxa due to the particular habitat specificities combined with a rarity of those habitats or environmental factors which has promoted speciation.

Table 6-4 summarises the collection of these taxa, both regionally and within the lease, to provide some insight into the relative impact on each taxon the proposed mining operation would have.

The most significant taxon present within the survey area in the context of statutory requirements is *Conospermum toddii* (DRF). Impact to this taxon must not occur without ministerial approval in each instance. The listing of the taxon under the EPBC Act may necessitate an EPBC referral if the proposed mine is considered to pose a significant threat to the survival of the species.

Factors which influence the conservation significance of a taxon are the extent and abundance of previous collections, presence of absence within the conservation estate, abundance at each location and any known threats such as mining, pastoral or pathogens. All but three of the taxa; *Baeckea* sp. Sandstone, *Acacia eremophila* numerous-nerved variant and *Acacia eremophila* var. *variabilis*, are known from the either QVSNR or PLNR or both. Only *Baeckea* sp. Sandstone is a significant range extension, with all previously lodged collections at least 200km further west or north west. However this may be the result of the lack of published description and its similarity to *Baeckea* sp. Great Victoria Desert, resulting in limited lodgements to date. Prior to the recent surveys *Dampiera eriantha* was the least broadly distributed, known from only two locations in close proximity to each other within PLNR. Similarly *Malleostemon* sp. Officer Basin was previously recorded from only three collections, albeit more dispersed, one of which is within QVSNR.



Table 6-4 Flora of significance recorded to date within the survey area

Taxon	Code	Abundance within Tropicana survey area	^α Range extension	Records lodged at WA Herbarium and recent records from other surveys outside Tropicana Survey Area	Populations present within Conservation Estate
<i>Conospermum toddii</i>	DRF	Known from at least 20 locations ^α , total number of plants estimated to exceed 1300	No	WAHERB: 25 records, 14 of which are within QVSNR, distributed to the north east (210 km), west (200 km) and south east (150 km) of Tropicana Other recent: 1 location approximately 40 km to the south west, 9 locations ^α within QVSNR	Multiple locations within QVSNR, one within PLNR
<i>Dampiera eriantha</i>	P1	Known from at least 49 locations ^α , total number of plants estimated to exceed 450	Small north western extension	WAHERB: Two records approx. 3 km apart 24 and 27 km north west in PLNR. Other recent: four locations ^α approx. 50 km south	PLNR
<i>Baeckea</i> sp. Sandstone	P1	Known from at least 5 locations ^α , total number of plants estimated to exceed 700	Significant eastern extension	WAHERB: Five records approx 200 km north west near Leinster; 400 km north west near Agnew, 530 km WNW near Sandstone; 500 and 550 km north west between Sandstone and Wiluna, Other recent: Nil	No
<i>Baeckea</i> sp. Great Victoria Desert	P2	Broadly distributed and abundant Known from at least 117 locations ^α , total number of plants estimated to exceed 3,300	Slight eastern extension	WAHERB: Six locations, distributed to the west (500 km) south west (70 km), south west (100 km) and south west (15-35 km) Other recent: 15 locations ^α 15 to 100 km south to south west	QVSNR
<i>Dicrastylis nicholasii</i>	P2	Very broadly distributed and abundant Known from at least 440 locations ^α , total number of plants estimated to exceed 18,000	Slight north western extension	WAHERB: Six within PLNR, one 130 km to south. Other recent: 34 locations ^α 18 to 133 km to the south and southwest	PLNR
<i>Malleostemon</i> sp. Officer Basin	P2	Known from at least 26 locations ^α , total number of plants estimated to exceed 440	Very minor northern extension	WAHERB: Three other locations, all south (25 km), south west (13 km) and south west (75) km Other recent: 2 locations ^α 51 to 56 km south east	QVSNR



Taxon	Code	Abundance within Tropicana survey area	^α Range extension	Records lodged at WA Herbarium and recent records from other surveys outside Tropicana Survey Area	Populations present within Conservation Estate
<i>Olearia arida</i>	P2	Known from at least 77 locations ^α , total number of plants estimated to exceed 1350	No	WAHERB: Five records; immediately north of PLNR, 80 km south west, 10 and 35 ESE, and 110 north east of survey area Other recent: 26 locations ^α 5 to 130 km south east to south west	No WAHERB records, one recent record in PLNR
<i>Grevillea secunda</i>	P2	Two locations ^α , total number of plants less than 20	Slight northern western	WAHERB: 16 collections, seven within QVSNR; eight between QVSNR and the southern boundary of the survey area, 25 to 60 km south east; Adelong Station, 380 km to the west. Other recent: 18 locations ^α 5 to 125 km south to south west	PLNR and QVSNR
<i>Acacia eremophila</i> numerous-nerved variant	P3	47 locations ^α , total number of plants estimated to be approximately 800	No	WAHERB: Seven collections: 95, 98 and 105 km to the north east, east and south east respectively; Perseverance Well, . 200 km to the west; Balladonia 350 km to the south west; and 40 km to the south east. Other recent: One location approximately 100 km north east near Neale Junction	No
<i>Acacia eremophila</i> var. <i>variabilis</i>	P3	Three locations ^α within 3 km of each other, total numbers estimated at between 50 and 100	North eastern	WAHERB: Six locations: Lake Moore 700 km west; Ardath, 670 km to the south west; Comet Vale, 315 km to the west; Balladonia, 330 km to the south; Menzies, 325 km to the west; and Zanthus, 190 km to the south west Other recent: Nil	No
<i>Dicrastylis cundeeleensis</i>	P3	Known from at least 64 locations ^α , total number of plants estimated to exceed 3,300	At the northern boundary	WAHERB: Nine locations 75 km south west at Officer Basin Airstrip; 34 km east approx 15km north of PLNR; 134 km south west approx 15km SE of QVS; 109 km south west approx 24 km NNE of QVS; 114 km south west near Argus Corner; 23 km south east near Salt Creek airstrip; 105 km east ; south eastern corner of survey area Other recent: 13 locations ^α 10 to 130 km south of survey area	QVSNR, one recent record within PLNR



Taxon	Code	Abundance within Tropicana survey area	^α Range extension	Records lodged at WA Herbarium and recent records from other surveys outside Tropicana Survey Area	Populations present within Conservation Estate
<i>Microcorys macredieana</i>	P3	Known from at least 67 locations ^Ω , total number of plants estimated to exceed 1300	No	WAHERB:QVSBR, PLNR; 200 km to the north along the road to Warburton; 450 km to the north east near Warburton; 550 km to the north west in the Carnarvon Range, Little Sandy Desert Recent other: 24 locations ^Ω 4 to 75 km south to south west	PLNR and QVSNR
<i>Micromyrtus stenocalyx</i>	P3	Known from at least 155 locations ^Ω , total number of plants estimated to exceed 3300	Slight north eastern	WAHERB:PLNR; extensively within QVSNR; near Cundelee, 150 km to the south west; on the PNC track 80 km to the south west; on the Coolgardie road, 340 km to the south west. Recent other:12 locations ^Ω , 40 to 80 km south west	PLNR and QVSNR
<i>Daviesia purpurascens</i>	P4	Known from at least 13 locations ^Ω , total number of plants estimated to exceed 550	Slight eastern	WAHERB: Very broad distribution ranging from Denham, over 1000 km to the west, to Kalgarin, 650 km to the south west. Recent other: 16 locations ^Ω 20 to 60 km south to south west	QVSNR, North Kalgarin NR, Boorababbin NR, and Dragon Rocks Reserve
<i>Lepidobolus deserti</i>	P4	Very abundant on dunes, Known from at least 135 locations ^Ω , total number of plants estimated to exceed 5,750	No	WAHERB: Perrinvale Station, 400 km to the west; Goongarrie Station, 320 km to the south west. P PLNR and QVSNR. Recent other: 44 other locations ^Ω ,10 to 60 km south to south west	PLNR and QVSNR

QVSNR = Queen Victoria Spring Nature Reserve

QVS = Queen Victoria Spring

PLNR = Plumridge Lake Nature Reserve

^Ω Locations are defined as occurrences separated by at least 50 metres.

^α Range extensions are based on the distribution of WAHERB records only



7.0 IMPACT ASSESSMENT

7.1 PRINCIPLES OF ASSESSMENT

Federal and State legislation applicable to the conservation of native flora and fauna include, but are not limited to, the *Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)*, the *Wildlife Conservation Act 1950(WC Act)*, and the *Environmental Protection Act 1986 (EP Act)*.

The EP Act 1986 is “an Act to provide for an Environmental Protection Authority, for the prevention, control and abatement of environmental pollution, for the conservation, preservation, protection, enhancement and management of the environment and for matters incidental to or connected with the foregoing.” Section 4a of the Act requires that developments take into account the following principles applicable to native flora and fauna:

The Precautionary Principle: Where there are threats of serious or irreversible damage, lack of full scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation.

The Principles of Intergenerational Equity: The present generation should ensure that the health, diversity and productivity of the environment is maintained or enhanced for the benefit of future generations.

The Principle of the Conservation of Biological Diversity and Ecological Integrity: Conservation of biological diversity and ecological integrity should be a fundamental consideration.

7.2 THREATENING PROCESSES

Threatening processes potentially arising from the development of the Tropicana Mining Project are discussed below:

7.2.1 Clearing of vegetation

Clearing of significant areas of vegetation is an unavoidable impact of the development of an open cut mine and associated infrastructure. Impact can be minimised by considering the distribution of vegetation and flora species of conservation significance during the design and relocation infrastructure to avoid areas of higher significance wherever feasible.

Table 7-1 details the impact to the vegetation units mapped of proposed clearing. It can be seen that only 4 units will be impacted by more than 1% of their total area within the survey area, with the most affected unit, Mixed Eucalypt woodlands over mixed open shrubs and *Triodia basedowii* still impacted by only 7.56% of its total area. This unit is the most broadly distributed unit within the survey area, occupying 22.8% of the total area, and is also broadly distributed within the QVSNR as mapped by Pearson as “Sandplain assemblage Mallee Shrublands/Woodlands”, as discussed in Section 6.1.3.

Less than 1% of the area mapped as *Casuarina pauper* woodland, and none of the area mapped as saline vegetation units, identified as of limited regional distribution, will be impacted. None of the units identified as locally restricted will be impacted at all.

Thus it is concluded that the impact of the proposed development to the vegetation is of minimal significance.



Table 7-1 Impact to vegetation units of proposed infrastructure

Vegetation Unit	Total Area (Ha)	Area Impacted (Ha)	% Impact
Mixed Eucalypt woodlands over mixed open shrubs and <i>Triodia basedowii</i>	30,823	2331	7.56
Isolated Acacia spp. over open low shrubs and moderately dense tussock grasslands	12,678	194	1.53
Minor Clay Pan: Scattered <i>Acacia nyssophylla</i> / <i>Grevillea sarissa</i> over open herbs and grasses	174	2.51	1.44
Dunes: Scattered <i>E. gongylocarpa</i> over mixed shrubs and <i>Triodia desertorum</i> or <i>T. basedowii</i>	6,009	72	1.19
<i>Acacia aneura</i> woodlands over grasses ± <i>Triodia basedowii</i>	28,089	274	0.98
Open to moderately dense <i>Acacia aneura</i> over <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> / <i>Acacia ramulosa</i> var. <i>ramulosa</i> over <i>Eremophila forrestii</i> subsp. <i>forrestii</i> over <i>Triodia basedowii</i>	19,661	185	0.94
<i>Eucalyptus gongylocarpa</i> / <i>E. youngiana</i> / <i>E. concinna</i> over open mixed shrubland over <i>Triodia desertorum</i>	1,425	2.74	0.19
Open to moderately dense <i>Casuarina pauper</i> woodland over open mixed shrubs and scattered soft grasses and/or <i>Triodia scariosa</i>	4,992	4.28	0.09
Narrow drainage channel: Sparse <i>Acacia aneura</i> over sparse to open shrubs and moderately dense tussock grasses	243	0	Nil
Rocky breakaways and associated slopes : Open <i>Acacia quadrimarginea</i> / <i>Dodonaea rigida</i> over sparse mixed shrubs over mixed soft grasses	221	0	Nil
<i>Eucalyptus gongylocarpa</i> over open shrubland over open <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> / <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> shrubland over <i>Triodia desertorum</i> or <i>T. basedowii</i>	15,428	0	Nil
White to grey brown clay pans: Dwarf halophytic shrublands of variable composition over sparse to dense herbs and grasses	265	0	Nil
Pale orange to orange clay pans: Low open to sparse scrub dominated by <i>Frankenia cinerea</i> / <i>Atriplex vesicaria</i> over sparse cover of <i>Eragrostis pergracilis</i> / <i>Aristida contorta</i>	427	0	Nil
Shallow depressions and areas fringing some claypans: Moderately dense <i>Melaleuca interioris</i> shrubland over sparse chenopods and soft grasses	66	0	Nil
Plains and gentle hillslopes at margins of saline complex: Sparse to open <i>Casuarina pauper</i> ± mallee Eucalypts over <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> / <i>Senna artemisioides</i> subsp. <i>petiolaris</i> over Chenopod species and soft grasses	1,281	0	Nil
Open mallee <i>Eucalyptus. concinna</i> over sparse to open low shrubs over open <i>Triodia scariosa</i>	13,519	0	Nil
	135,367.50	3,065.81	



7.2.2 Clearing of taxa deemed of higher conservation significance

Table 7-2 details the impact to each species of conservation significance recorded within the survey area, based on the proposed clearing footprint. It can be seen that whilst the impact to the majority of taxa is relatively minor, the localised impact to the taxa *Dicrastylis cundeeleensis* (92%), *Daviesia purpurascens* (94%) and *Acacia eremophila* var. *variabilis* (55%) is highly significant. *Grevillea secunda* can also be considered to be significantly impacted with 38% impact, given at present only a small number of plants have been located.

It is worth noting that these numbers may over represent the proportion of plants within the impact area relative to the area outside the impact footprint in some instances, as a more intense survey effort has been directed at these areas than some more remote portions of the survey area. Within the impact footprint and some adjacent areas, closely spaced traverses were conducted in which all Priority and DRF taxa were individually counted, or in the case of large populations estimated. In contrast some records in more remote locations were derived from quadrates. In these instances only cover estimates were made, and the full extent of the population was not determined. The numbers estimated from these locations were conservative, ranging from 2 to 30 plants. It is likely if the areas surrounding these more remote records were also intensely searched, additional numbers of plants outside the impact footprint would be located.

Table 7-2 Impact of proposed clearing on taxa of conservation significance

Taxon	Status	Estimated Number Within Survey Area	Estimated Number Within Impact Footprint	% Localised impact
<i>Conospermum toddii</i>	DRF	1,334	0	0%
<i>Dampiera eriantha</i>	P1	457	0	0%
<i>Baeckea</i> sp. Sandstone	P1	70	0	0%
<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	3,314	343	10%
<i>Dicrastylis nicholasii</i>	P2	17,726	5,940	34%
<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	441	0	0%
<i>Olearia arida</i>	P2	990	202	20%
<i>Grevillea secunda</i>	P2	13	5	38%
<i>Acacia eremophila</i> numerous-nerved variant	P3	796	440	55%
<i>Acacia eremophila</i> var. <i>variabilis</i>	P3	45	10	22%
<i>Dicrastylis cundeeleensis</i>	P3	6,366	5,845	92%
<i>Microcorys macredieana</i>	P3	1,204	61	5%
<i>Micromyrtus stenocalyx</i>	P3	3,280	87	3%
<i>Daviesia purpurascens</i>	P4	556	521	94%
<i>Lepidobolus deserti</i>	P4	5,740	0	0%

Table 7-2 provides information as to the localised impact to these taxa, but does not take into account population located beyond the boundaries of the survey area. In many instances information as to the number of plants present is not available, particularly for older WA Herbarium records. An assessment on the significance of the localised impact based on the broader distribution, presence or absence within the conservation estate and, where known, abundance is presented in Table 7-3.



7.2.3 Damage to vegetation due to dust

Excessive dust can clog the stomata of plants and lead to localised deaths. This is particularly prevalent at track edges. Correct dust suppression techniques can minimise this impact.

7.2.4 Leakage of saline water used in construction and operation

As the ground water proposed to be extracted to serve the Operational Area is saline, its use must be tightly managed to ensure damage to vegetation does not occur. The need for dust suppression must be counterbalanced with the risk of saline scalds if non-saline water is not available in sufficient quantities.

7.2.5 Erosion and compaction due to off-road driving

Many of the landforms within the Tropicana project area are susceptible to damage from off-road driving. The vegetation of the extensive sand dunes is particularly vulnerable due to the looseness of the soil. However the Tropicana project area and surrounds also contains relatively extensive areas of saline clay pans and open grasslands which are flat and relatively sparsely vegetated and hence lend themselves to off-road driving. Compaction of the soil can make it difficult for plants to re establish. The risk of damage to the vegetation can be avoided by implementing and maintaining a strict no off-road driving policy.

7.2.6 Introduction of weed species

At present the Tropicana Project Area and its surrounds have remarkably low levels of weed invasion, with only three taxa recorded, all of which were recorded at extremely low frequency. However increased vehicular traffic, combined with increased ground disturbance and disposal of water from drilling and domestic operations, provide an opportunity for additional species to become established unless weed hygiene procedures are implemented.

7.2.7 Introduction of feral animals

Feral animals such as rabbits, cats, foxes, dogs, goats, camels, horses and donkeys are already established in the region, and policies prohibiting the introduction of domestic animals to mining leases are mandatory. However the unintentional introduction of additional species, such as alien insects in food or on personnel remains a remote possibility, particularly where personnel are on a fly in/fly out basis and hence arriving from remote locations where these species are already present.



Table 7-3 Assessment of impact of development based on WAHERB and population data outside survey area

Taxon	% Localised Impact	Distribution	Assessment of impact to taxon's viability
<i>Conospermum toddii</i>	0	WAHERB: 25 records, 14 of which are within QVSNR, distributed to the north east (210 km), west (200 km) and south east (150 km) of Tropicana Other recent: 1 location approximately 40 km to the south west, 9 locations within QVSNR	Nil
<i>Dampiera eriantha</i>	0	WAHERB: Two records approx. 3 km apart 24 and 27 km north west in PLNR. Other recent: four locations ^Q approx. 50 km south	Nil
<i>Baeckea</i> sp. Sandstone	0	WAHERB: Five records approx 200 km north west near Leinster; 400 km north west near Agnew, 530 km WNW near Sandstone; 500 and 550 km north west between Sandstone and Wiluna, Other recent: Nil	Nil
<i>Baeckea</i> sp. Gt. Victoria	10	WAHERB: Six locations, distributed to the west (500 km) south west (70 km), south west (100 km) and south west (15-35 km) Other recent: 15 locations ^Q 15 to 100 km south to south west	Negligible. Taxon is broadly distributed with large population outside area and one population within the QVSNR
<i>Dicrastylis nicholasii</i>	34	WAHERB: Six within PLNR, one 130 km to south. Other recent: 34 locations ^Q 18 to 133 km to the south and southwest	Negligible. Very abundant locally and outside the survey (at least 2,600 more plants recorded), with multiple populations within the PLNR
<i>Malleostemon</i> sp. Officer Basin	0	WAHERB: Three other locations, all south (25 km), south west (13 km) and south west (75) km Other recent: 2 locations ^Q 51 to 56 km south east	Nil
<i>Olearia arida</i>	20	WAHERB: Five records; immediately north of PLNR, 80 km south west, 10 and 35 ESE, and 110 north east of survey area Other recent: 26 locations ^Q 5 to 130 km south east to south west in which at least 300 plants were recorded	Minor. Abundant at some other populations and recorded within the PLNR
<i>Grevillea secunda</i>	38	WAHERB: 16 collections, seven within QVSNR; eight between QVSNR and the southern boundary of the survey area, 25 to 60 km south east; Adelong Station, 380 km to the west. Other recent: 18 locations ^Q 5 to 125 km south to south west	Minor. Although apparently uncommon within the survey record it is known from a large number of other locations, 15 of which are within the conservation estate.



Taxon	% Localised Impact	Distribution	Assessment of impact to taxon's viability
<i>Acacia eremophila</i> numerous-nerved variant	55	WAHERB: Seven collections: 95, 98 and 105 km to the north east, east and south east respectively; Perseverance Well, 200 km to the west; Balladonia 350 km to the south west; and 40 km to the south east. Other recent: One location approximately 100 km north east near Neale Junction	Minor. Appears to be abundant at some other locations and is reasonably widely distributed, but to date has not been recorded within the conservation estate.
<i>Acacia eremophila</i> var. <i>variabilis</i>	22	WAHERB: Six locations: Lake Moore 700 km west; Ardath, 670 km to the south west; Comet Vale, 315 km to the west; Balladonia, 330 km to the south; Menzies, 325 km to the west; and Zanthus, 190 km to the south west	Minor. Does not appear to be abundant at other locations where noted. Very broadly distributed but not recorded within the conservation estate to date.
<i>Dicrasyllis cundeeleensis</i>	92	WAHERB: Nine locations 75 km south west at Officer Basin Airstrip; 34 km east approx 15km north of PLNR; 134 km south west approx 15km SE of QVS; 109 km south west approx 24 km NNE of QVS; 114 km south west near Argus Corner; 23 km south east near Salt Creek airstrip; 105 km east ; south eastern corner of survey area Other recent: 13 locations ^Q 10 to 130 km south of survey area	Minor. Known from multiple other locations at frequencies range from low to abundant. The abundance within the survey area is likely to be greater than current records suggest, as some older data may not have recognised collections as this taxon.
<i>Microcorys macredieana</i>	5	WAHERB: QVSNR, PLNR; 200 km to the north along the road to Warburton; 450 km to the north east near Warburton; 550 km to the north west in the Carnarvon Range, Little Sandy Desert Recent other: 24 locations ^Q 4 to 75 km south to south west	Negligible: Known from more than 40 other locations at frequencies ranging from low to common. Recorded from both QVSNR and PLNR.
<i>Micromyrtus stenocalyx</i>	3	WAHERB: PLNR; extensively within QVSNR; near Cundeelee, 150 km to the south west; on the PNC track 80 km to the south west; on the Coolgardie road, 340 km to the south west. Recent other: 12 locations ^Q , 40 to 80 km south west	Negligible: Broadly distributed at variable frequencies. Recorded from both QVSNR and PLNR
<i>Daviesia purpurascens</i>	94	WAHERB: Very broad distribution ranging from Denham, over 1000 km to the west, to Kalgarin, 650 km to the south west. Recent other: 16 locations ^Q 20 to 60 km south to south west	Negligible despite high level of localised impact due to very broad distribution and high abundance of many other populations. Recorded within QVSNR and Dragon Rocks NR.
<i>Lepidobolus deserti</i>	0	WAHERB: Perrinvale Station, 400 km to the west; Goongarrie Station, 320 km to the south west. P PLNR and QVSNR. Recent other: 44 other locations ^Q , 10 to 60 km south to south west	Nil



7.2.8 Accidental bushfires

Fires are a frequent occurrence in hummock grasslands in the arid zones of Australia. Prior to European occupation, fires occurred as a result of intentional burning by Aboriginals of the area to encourage the development of fresh growth for game. Due to the early demise of the local Aboriginal groups' traditional life style in the area, this regime of burning is likely to have rapidly diminished from the 1890's. Early photographs of the area surrounding Queen Victoria Spring suggest that the surrounding vegetation was far more open than it is today, probably as a result of burning practices. Early accounts by explorers in the surrounding region also suggest that burns were more frequent and that they were extensive in areas more distant from water resources (Pearson, 1994). Ground truthing and examination of the aerial photography of the Tropicana area reveals that the area has been affected by extensive fires, many of which are within the last five years. The source of these fires is unknown, but is likely to be a combination of lightning strikes and unintentional fires caused by human activity. Controlled burning has been undertaken by the DEC since 1991 in the nature reserves, but probably has not extended to the area within the Tropicana Project Area.

Although the native flora is adapted and in many instances dependent upon fire for activation of seed germination, too frequent or too hot bushfires can result in detrimental changes to the composition and diversity of the vegetation, causing local extinctions of vulnerable species.

The risk of fire directly as a result of mining activity can be minimised by implementing fire protocols such as appropriate isolation of flammable compounds such as hydrocarbons and explosives, localised clearing around working plant, and enforcement of appropriate smoking practices (e.g. no uncontrolled discarding of cigarette butts). Additional tracks in the area as a result of mining may act as a fire break and so may serve to reduce the extent of small fires once started

7.2.9 Introduction and spread of plant pathogens

Due to the aridity of the environment, infection by *Phytophthora* (dieback) species is not considered a risk in the Tropicana survey area, despite the presence of many taxa from families known to be vulnerable such as Proteaceae and Xanthorrhoeaceae. However the introduction of vehicles and plant from other locations brings with it the possibility of introduction of other plant pathogens. Thorough vehicle hygiene procedures at the time a vehicle is introduced to site, if it has been used elsewhere, can minimise this risk.

7.2 Assessment of potential impacts

A risk assessment was undertaken to determine potential impacts arising from the development on the flora and vegetation and the residual impacts following the implementation of management strategies identified in this document. Significance of the risks is classified as either "High" (site/issue specific management programmes required, advice/approval from regulators required), "Medium" (specific management and procedures must be specified) or "Low" (managed by routine procedures). The results of this assessment are detailed in Table 7-4.



Table 7-4 Risk assessment of potential impacts of proposed development to the Tropicana flora and vegetation

Process/Activity	Event	Impact	Inherent Risk				Controls	Residual Risk			
			Likelihood	Consequence	Risk Level	Significance		Likelihood	Consequence	Risk Level	Significance
Vegetation Clearing	Removal or impact to <i>Conospermum toddii</i> without ministerial approval	Reduction or loss of viability of populations of DRF taxa. Breach of EPBC Act, and Wildlife Conservation Act 1950	3	4		High	Ensure population of <i>Conospermum toddii</i> are delineated and physically isolated with barriers. No earthworks to occur without reference to the locations. Ensure Application to Take Scheduled Flora is completed and ministerial approval obtained prior to any impact to DRF locations	1	4	4	Low
Vegetation Clearing	Removal of significant proportion of poorly represented community types	Loss of biodiversity	3	3	9	Med	Clearing of the community types identified as of limited distribution locally (Table 6-3) or regionally (Table 6-2) should be avoided by location of infrastructure in areas of lower significance	2	3	6	Med
Vegetation Clearing	Removal of Priority Flora	Reduction or loss of viability of populations of Priority taxa leading to possible extinction	2	3	6	Med	Additional searching of areas surrounding populations to delineate extent of population. Quantitate proportion of all other Priority flora likely to be impacted and ensure impact is kept within approved limits. Consult with relevant personnel within DEC with respect to acceptable impacts.	1	3	3	Low
Driving by mine personnel	Off-road use of vehicles	Damage to vegetation	3	2	6	Med	Off-road driving prohibited or where necessary subject to authorisation procedure. Avoid clearing habitat known to support threatened species	1	2	2	Low
Use of flammable materials, smoking, use of hot plant	Uncontrolled bushfires	Possible loss of vulnerable species or loss of diversity in some community types	1	5	5	Med	Ensure flammable material is suitably contained Ensure vehicles and moving plant do not park on <i>Triodia</i> . Maintain correct procedures for smoking e.g. no discarding of cigarette butts in bush Prohibition of campfires within lease	1	1	1	Low
Clearing combined with poor vehicle hygiene, disposal of waste water	Introduction or dispersal of weeds/flora deaths due to saline waste water	Reduction in floristic diversity and integrity	3	2	6	Med	Implement vehicle and plant weed hygiene measures. Ensure any release of water as a result of drilling or human usage is contained	2	2	4	Low



Process/Activity	Event	Impact	Inherent Risk				Controls	Residual Risk			
			Likelihood	Consequence	Risk Level	Significance		Likelihood	Consequence	Risk Level	Significance
Use of saline water during operations	Leakage of saline water	Localised plant death	3	2	6	Med	Avoid release of excessively saline water into environment. Ensure salinity of water used for dust suppression is not excessively saline. Monitor effects on vegetation of usage to ensure progressive salination of road edges is not occurring.	1	2	2	Low
Increased human and vehicle movement	Introduction of plant pathogens	Loss of vulnerable species	1	2	2	Low	Correct vehicle hygiene when using vehicles previously used where pathogens may be present.	1	1	1	Low
Increased human and vehicle movement	Introduction of feral animals, particularly insects	Loss of vulnerable species	1	2	2	Low	Ensure correct quarantining of material from potentially infected equipment or goods (particularly material from overseas) has occurred prior to use.	1	1	1	Low
Vehicular movements and ground disturbance	Deposition of dust on surrounding vegetation	Localised plant death, possibly resulting in loss of diversity or species	2	1	2	Low	Dust suppression methods, (water trucks etc).	2	1	2	Low



7.3 STUDY TEAM

The Tropicana Biological Assessment described in this document was planned, coordinated and executed by:



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The Tropicana Flora and Vegetation Assessment Survey was conducted under the authorization of the following licence issued by Department of Environment and Conservation to:

C. Macpherson, *ecologia* Environment
“Licence to take flora for scientific purposes”
Licence Number SL007231, valid to 17th October, 2007

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8.0 REFERENCES

- Atkins, K.J. (2008). Declared Rare and Priority Flora List for Western Australia. Department of Environment and Conservation, Perth.
- Barton, B. and Cowan, M. (2001). Great Victoria Desert 1 (GVD1 – Great Victoria Desert Shield subregion) *IN* A Biodiversity Audit of Western Australia's 53 Biogeographic Subregions in 2002.
- Beard, J.S. (1974). *Vegetation Survey of Western Australia: Great Victoria Desert*. University of Western Australia Press, Perth.
- Beard, J.S. (1975). *Vegetation Survey of Western Australia: Nullarbor*. University of Western Australia Press, Perth.
- Burbidge, A.A., McKenzie, N.L., Chapman, A. and Lambert, P.M. (1976). The wildlife of some existing and proposed reserves in the Great Victoria and Gibson Deserts, Western Australia. Department of Fisheries and Wildlife, Perth: Wildlife Research Bulletin No.5.
- Bureau of Meteorology (2007). Australian climate information available at <http://www.bom.gov.au/>
- Chao, A. 2004. Species richness estimation . *In* N. Balakrishnan, C.B. Read, and B. Vidakovic, editors. *Encyclopaedia of Statistical Sciences*. Wiley, New York
- Colwell, R. K. (2005). *EstimateS: Statistical estimation of species richness and shared species from samples*. User's Guide and Application, Version 8.0.0., published at: <http://viceroy.eeb.uconn.edu/estimates>
- ecologia* Environment (2005a). Plumridge Lakes Exploration: Rare Flora and Fauna Survey. Unpublished Report for Western Areas NL.
- ecologia* Environment (2005b). Tropicana Gold Exploration Rare and Priority Flora Survey. Unpublished Report for AngloGold Ashanti.
- ecologia* Environment (2006a). Tropicana Gold Exploration Road Clearance Flora Survey – Tropicana Exploration Area to PNC camp. Unpublished Report for AngloGold Ashanti.
- ecologia* Environment (2009a). Tropicana Transline Infrastructure Corridor Flora Survey – Tropicana Exploration Camp to Cable Haul Road. Unpublished Report for AngloGold Ashanti.
- ecologia* Environment (2009b). Tropicana South Rare Flora Assessment. Unpublished Report for AngloGold Ashanti.
- Environmental Protection Authority (2002). Position Statement 3: Terrestrial Biological Surveys as an Element of Biodiversity Protection. Environmental Protection Authority, Perth.
- Environmental Protection Authority (2004) Guidance Statement 51: Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment in Western Australia. Environmental Protection Authority, Perth.
- FloraBase (2008). Information about the Western Australian Flora. The Western Australian Herbarium, Department of Environment and Conservation. <http://florabase.wa.gov.au>
- Farjon, A. (2005). *A monograph of Cupressaceae and Sciadopitys*. Royal Botanical Gardens, Kew, United Kingdom.
- Hnatiuk, R.J. (1990). Census of Australian Vascular Plants. Australian Flora and Fauna Series Number 11. Bureau of Flora and Fauna, Canberra. Aust. Govt. Publishing Service, Canberra.



- Hussey, B. M. J., Keighery, G. J., Cousens, R. D., Dodd, J. and Lloyd, S. G. (1997). *Western Weeds. The Plant Protection Society of Western Australia and Agriculture Western Australia.* Kensington, W.A.
- IBRA (2000). *Revision of the Interim Biogeographical Regionalisation for Australia (IBRA) and development of Version 5.1.* Environment Australia
- Martinick, W.G. and Associates (1986). *Mulga Rock Flora, Fauna and Radioecology Survey.* Report prepared for PNC Exploration (Australia) Pty Ltd.
- Mattiske (2000) *Endangered Flora Survey for Plumridge Lakes Nature Reserve (34605).* Unpublished Report for Western Areas NL.
- McKenzie, N.L. and Burbidge, A.A. (Eds). (1979). *The wildlife of some existing and proposed nature reserves in the Gibson, Little Sandy and Great Victoria Deserts, Western Australia.* Department of Fisheries and Wildlife, Perth: Wildlife Research Bulletin No. 8.
- McKenzie, N.L., May, J.E. and McKenna, S. (2002). *Bioregional Summary of the 2002 Biodiversity Audit for Western Australia.* Department of Conservation and Land Management.
- Muir, B.G. (1977). *Biological Survey of the Western Australian Wheatbelt. Part 2. Records of the Western Australian Museum, Supplement 3.*
- Newbey, K.R., Dell, J., How, R. and Hnatiuk, R.J. (1984). *Widgiemooltha – Zanthus Study Area. Part 2 of the Biological Survey of the Eastern Goldfields of Western Australia. Rec. W. Aust. Museum., Suppl. No. 18.*
- Pearson, D.J. (1994) *The Vegetation and Flora of Queen Victoria Spring Nature Reserve, Western Australia.* Dissertation submitted in fulfilment of the Degree of Master of Science, Dept. Botany University of Western Australia
- Tille, P. (2006) *Soil-landscapes of Western Australia's Rangelands and Arid Interior - Resource Management Technical Report 313,* Department of Agriculture and Food, Government of Western Australia.
- Thackway, R. and Cresswell, I. D. (1995). *An Interim Biogeographic Regionalisation for Australia: a Framework for Establishing the National System of Reserves. Version 4.0.* Australian Nature Conservation Agency, Canberra
- van de Graaff, W.J.E. , Bunting, J.A. 1977 *Plumridge, Western Australia, 1:250 000 geological series explanatory notes. Sheet SH/51-08.* Bureau of Mineral Resources, Australia & Geological Survey of WA
- Western Australian Herbarium (2007). *Information about the Western Australian Flora: FloraBase website available: <http://florabase.calm.wa.gov.au/>*



Appendix A Vegetation Structural and Height Classifications



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Appendix A1: Vegetation Structural Classification System

Growth form	Height ranges (m)	Structural Formation Classes					
		70-100	30-70	10-30	<10	0-5	approximately 0
Tree	<10, 10-30, >30	closed forest	open forest	woodland	open woodland	isolated clumps of trees	isolated trees
Tree, mallee	<3, <10, 10-30	closed mallee forest	open mallee forest	mallee woodland	open mallee woodland	isolated clumps of mallee trees	isolated trees
Shrub	<1, 1-2, >2	closed shrubland	shrubland	open shrubland	sparse shrubland	isolated clumps of shrubs	isolated shrubs
Heath shrub	<1, 1-2, >2	closed heathland	heathland	open heathland	sparse heathland	isolated clumps of heath shrubs	isolated heath shrubs
Chenopod shrub	<1, 1-2, >2	closed samphire shrubland	chenopod shrubland	open chenopod shrubland	sparse chenopod shrubland	isolated clumps of chenopod shrubs	isolated chenopod shrubs
Samphire shrub	<1, 1-2, >2	closed samphire shrubland	samphire shrubland	open samphire shrubland	sparse samphire shrubland	isolated clumps of samphire shrubs	isolated samphire shrubs
Hummock Grass	<2, >2	closed hummock grassland	hummock grassland	open hummock grassland	sparse hummock grassland	isolated clumps of hummock grasses	isolated hummock grasses
Tussock Grass	<0.5, >0.5	closed tussock grassland	tussock grassland	open tussock grassland	sparse tussock grassland	isolated clumps of tussock grasses	isolated tussock grasses
Other Grass	<0.5, >0.5	closed grassland	grassland	open grassland	sparse grassland	isolated clumps of grasses	isolated grasses
Sedge	<0.5, >0.5	closed sedgeland	sedgeland	open sedgeland	sparse sedgeland	isolated clumps of sedges	isolated sedges
Herbs	<0.5, >0.5	closed herbland	herbland	open herbland	sparse herbland	isolated clumps of herbs	isolated herbs
Vine	<10, 10-30, >30	closed vineland	vineland	open vineland	sparse vineland	isolated clumps of vines	isolated vines

Citation: Executive Steering Committee for Australian Vegetation Information (ESCAVI) (2003) Australian Vegetation Attribute Manual: National Vegetation Information System, Version 6.0, Dept. of the Environment and Heritage, Canberra



Appendix A2: Vegetation Height Classification System

Height		Growth Form				
Height class	Height range (m)	tree, vine (M & U)	Shrub, heath shrub, chenopod shrub, ferns, samphire shrub, cycad, tree-fern, grass-tree, palm (multi-stemmed)	tree mallee, mallee shrub	tussock grass, hummock grass, other grass, sedge, rush, herbs, vine (G)	bryophyte, lichen, seagrass, aquatic
8	>30	tall	N/A	N/A	N/A	N/A
7	10-30	mid	N/A	tall	N/A	N/A
6	<10	low	N/A	mid	N/A	N/A
5	<3	N/A	N/A	low	N/A	N/A
4	>2	N/A	tall	N/A	tall	N/A
3	1-2	N/A	mid	N/A	tall	N/A
2	0.5-1	N/A	low	N/A	mid	tall
1	<0.5	N/A	low	N/A	low	low

Height classes defined by NVIS (2003) Source: (Based on Walker and Hopkins 1990).

Citation: Executive Steering Committee for Australian Vegetation Information (ESCAVI) (2003) Australian Vegetation Attribute Manual: National Vegetation Information System, Version 6.0, Dept. of the Environment and Heritage, Canberra



Appendix B Flora Species Recorded During Phases 1 and 2 of the Tropicana Survey

Classification and nomenclature according to the Western Australian Herbarium and R.J. Hnatiuk. (1990). *Census of Australian Vascular Plants*. Australian Government Publishing Service.

Key: § = Declared Rare Flora
 ⌘ = Priority Flora
 * = Introduced Species
 ⊕ = Flora of Significance
 indet. – indeterminate due to a lack of reproductive material.



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Appendix B: Taxa recorded during Phase 1 and Phase 2

FAMILY	GENUS
ADIANTACEAE	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>
AMARANTHACEAE	<i>Ptilotus drummondii</i>
	<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>
	<i>Ptilotus exaltatus</i> var. <i>villosus</i>
	<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
	<i>Ptilotus polystachyus</i>
	<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>
	<i>Ptilotus sessilifolius</i>
	<i>Ptilotus</i> sp. 1 indet.
	<i>Ptilotus</i> sp. 2 indet.
ANTHERICACEAE	<i>Caesia</i> sp. <i>talingka</i> ms (C. Tauss)
	<i>Murchisonia volubilis</i>
	<i>Thysanotus manglesianus</i>
APOCYNACEAE	<i>Alyxia buxifolia</i>
ASCLEPIADACEAE	<i>Marsdenia australis</i>
	<i>Rhyncharrhena linearis</i>
ASTERACEAE	? <i>Chrysocephalum eremaeum</i>
	<i>Asteridea chaetopoda</i>
	<i>Brachyscome oncocarpa</i>
	<i>Brachyscome</i> sp. indet.
	<i>Calotis hispidula</i>
	<i>Calotis multicaulis</i>
	<i>Centipeda pleiocephala</i>
	<i>Centipeda thespidioides</i>
	<i>Cephalipterum drummondii</i>
	<i>Chrysocephalum apiculatum</i>
	<i>Chrysocephalum pterochaetum</i>
	<i>Chrysocephalum puteale</i>
	<i>Cratystylis subspinescens</i>
	<i>Leiocarpa semicalva</i> subsp. <i>semicalva</i>
	<i>Minuria multisetata</i>
	<i>Brachyscome ciliaris</i>
	<i>Olearia arida</i>
	<i>Olearia decurrens</i>
	<i>Olearia exiguifolia</i>
	<i>Olearia muelleri</i>
	<i>Olearia stuartii</i>
	<i>Olearia subspicata</i>
	<i>Podolepis capillaris</i>
	<i>Rhodanthe chlorocephala</i> subsp. <i>rosea</i>



Appendix B: Taxa recorded during Phase 1 and Phase 2

FAMILY	GENUS
	<i>Rhodanthe floribunda</i>
	<i>Rhodanthe maryonii</i>
	<i>Senecio pinnatifolius</i>
	<i>Sonchus oleraceus</i>
	<i>Vittadinia eremaea</i>
	<i>Vittadinia</i> sp. indet.
	<i>Vittadinia sulcata</i>
BORAGINACEAE	<i>Halgania cyanea</i> var. Allambi Stn (B.W. Strong 676)
	<i>Halgania erecta</i>
BRASSICACEAE	<i>Lepidium</i> sp. indet.
	<i>Lepidium phlebopetalum</i>
	<i>Lepidium platypetalum</i>
CAESALPINIACEAE	<i>Petalostylis cassioides</i>
	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
	<i>Senna artemisioides</i> subsp. <i>petiolaris</i>
	<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>
	<i>Senna glaucifolia</i>
	<i>Senna pleurocarpa</i>
	<i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>
	<i>Senna</i> sp. Billabong (J.D. Alonzo 721)
CARYOPHYLLACEAE	<i>Spergularia rubra</i>
CASUARINACEAE	<i>Allocasuarina acutivalvis</i>
	<i>Allocasuarina corniculata</i>
	<i>Allocasuarina helmsii</i>
	<i>Casuarina pauper</i>
CENTROLEPIDACEAE	<i>Centrolepis eremica</i>
CHENOPODIACEAE	<i>Atriplex nummularia</i>
	<i>Atriplex</i> sp. indet.
	<i>Atriplex vesicaria</i>
	<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>
	<i>Chenopodium desertorum</i> subsp. <i>rectum</i>
	<i>Chenopodium gaudichaudianum</i>
	<i>Chenopodium melanocarpum</i> forma <i>melanocarpum</i>
	<i>Chenopodium nitrariaceum</i>
	<i>Chenopodium</i> sp. indet.
	<i>Dissocarpus paradoxus</i>
	<i>Dysphania kalpari</i>
	<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>
	<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>
	<i>Maireana brevifolia</i>



Appendix B: Taxa recorded during Phase 1 and Phase 2

FAMILY	GENUS
	<i>Maireana georgei</i>
	<i>Maireana glomerifolia</i>
	<i>Maireana integra</i>
	<i>Maireana pentatropis</i>
	<i>Maireana pyramidata</i>
	<i>Maireana sedifolia</i>
	<i>Maireana sp.1 indet.</i>
	<i>Maireana sp.2 indet.</i>
	<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>
	<i>Maireana trichoptera</i>
	<i>Maireana triptera</i>
	<i>Maireana turbinata</i>
	<i>Maireana villosa</i>
	<i>Rhagodia eremaea</i>
	<i>Rhagodia sp. indet.</i>
	<i>Salsola australis</i>
	<i>Sclerolaena convexula</i>
	<i>Sclerolaena densiflora</i>
	<i>Sclerolaena deserticola</i>
	<i>Sclerolaena diacantha</i>
	<i>Sclerolaena eriacantha</i>
	<i>Sclerolaena eurotioides</i>
	<i>Sclerolaena fimbriolata</i>
	<i>Sclerolaena obliquicuspis</i>
	<i>Sclerolaena parviflora</i>
	<i>Sclerolaena patenticuspis</i>
	<i>Sclerolaena symoniana</i>
	<i>Tecticornia ?aff. undulata</i>
	<i>Tecticornia halocnemoides</i>
	<i>Tecticornia indica</i> subsp. <i>bidens</i>
	<i>Tecticornia pruinosa</i>
CONVOLVULACEAE	? <i>Convolvulus remotus</i>
	<i>Bonamia rosea</i>
	<i>Wilsonia sp. indet.</i>
CUPRESSACEAE	<i>Callitris columellaris</i>
	<i>Callitris preissii</i>
	<i>Callitris sp. indet.</i>
CYPERACEAE	<i>Bulbostylis barbata</i>
	<i>Caustis dioica</i>
	<i>Chrysitrix distigmatosa</i>
	<i>Cyperus bulbosus</i>
	<i>Eleocharis pallens</i>
	<i>Fimbristylis dichotoma</i>
	<i>Fimbristylis sp. indet.</i>



Appendix B: Taxa recorded during Phase 1 and Phase 2

FAMILY	GENUS
DASYPOGONACEAE	<i>Lomandra leucocephala</i> subsp. <i>robusta</i>
	<i>Lomandra</i> sp. indet.
EUPHORBIACEAE	<i>Adriana urticoides</i> var. <i>hookeri</i>
	<i>Bertya dimerostigma</i>
	<i>Euphorbia drummondii</i>
	<i>Euphorbia</i> sp.
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>
	<i>Monotaxis luteiflora</i>
FRANKENIACEAE	<i>Frankenia cinerea</i>
	<i>Frankenia fecunda</i>
GENTIANACEAE	<i>Centaurium spicatum</i>
GERANIACEAE	<i>Erodium aureum</i>
	<i>Erodium carolinianum</i>
	<i>Erodium cygnorum</i>
	<i>Erodium</i> sp. indet.
GOODENIACEAE	<i>Brunonia australis</i>
	<i>Dampiera dentata</i>
	<i>Dampiera eriantha</i>
	<i>Dampiera ramosa</i>
	<i>Dampiera roycei</i>
	<i>Dampiera stenophylla</i>
	<i>Dampiera tomentosa</i>
	<i>Goodenia elderi</i>
	<i>Goodenia glandulosa</i>
	<i>Goodenia occidentalis</i>
	<i>Goodenia quasilibera</i>
	<i>Goodenia ramelii</i>
	<i>Goodenia scaevolina</i>
	<i>Goodenia</i> sp. indet.
	<i>Goodenia triodiophila</i>
	<i>Goodenia xanthosperma</i>
	<i>Lechenaultia striata</i>
	<i>Scaevola basedowii</i>
	<i>Scaevola parvibarbata</i>
	<i>Scaevola parvifolia</i>
	<i>Scaevola spinescens</i>
	<i>Velleia glabrata</i>
	<i>Velleia hispida</i>
GYROSTEMONACEAE	<i>Codonocarpus cotinifolius</i>
	<i>Gyrostemon ramulosus</i>



Appendix B: Taxa recorded during Phase 1 and Phase 2

FAMILY	GENUS
	<i>Gyrostemon</i> sp. indet.
HALORAGACEAE	<i>Glischrocaryon aureum</i>
	<i>Glischrocaryon aureum</i> var. <i>aureum</i>
	<i>Glischrocaryon</i> sp. indet.
	<i>Haloragis gossei</i>
	<i>Haloragis trigonocarpa</i>
LAMIACEAE	<i>Dicrastylis brunnea</i>
	<i>Dicrastylis cordifolia</i>
	<i>Dicrastylis nicholasii</i>
	<i>Dicrastylis</i> sp. indet.
	<i>Dicrastylis brunnea</i>
	<i>Dicrastylis</i> sp. Cundeelee (D.J. Pearson 101)
	<i>Microcorys macredieana</i>
	<i>Newcastelia hexarrhena</i>
	<i>Pityrodia loricata</i>
	<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>
	<i>Prostanthera sericea</i>
	<i>Spartothamnella teucriflora</i>
	<i>Westringia cephalantha</i>
	<i>Westringia rigida</i>
LOBELIACEAE	<i>Isotoma petraea</i>
LOGANIACEAE	<i>Logania nuda</i>
LORANTHACEAE	<i>Amyema fitzgeraldii</i>
	<i>Amyema miquelii</i>
	<i>Lysiana murrayi</i>
MALVACEAE	? <i>Lawrencia</i> sp. indet.
	<i>Abutilon ?oxycarpum</i>
	<i>Abutilon leucopetalum</i>
	<i>Abutilon otocarpum</i>
	<i>Abutilon oxycarpum</i> subsp. <i>prostratum</i>
	<i>Abutilon</i> sp. indet.
	<i>Alyogyne pinoniana</i>
	<i>Lawrencia ?glomerata</i>
	<i>Sida arenicola</i>
	<i>Sida calyxhymenia</i>
	<i>Sida fibulifera</i>
	<i>Sida phaeotricha</i>
	<i>Sida</i> sp. indet.
	<i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)
	<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)
	<i>Sida spodochroma</i>



Appendix B: Taxa recorded during Phase 1 and Phase 2

FAMILY	GENUS
MARSILEACEAE	<i>Marsilea hirsuta</i>
MIMOSACEAE	<i>Acacia acanthoclada</i> subsp. <i>acanthoclada</i>
	<i>Acacia</i> aff. <i>gracillima</i>
	<i>Acacia</i> aff. <i>sorophylla</i>
	<i>Acacia aneura</i>
	<i>Acacia aneura</i> var. ? <i>conifera</i>
	<i>Acacia aneura</i> var. ? <i>microcarpa</i>
	<i>Acacia aneura</i> var. <i>aneura</i>
	<i>Acacia aneura</i> var. <i>argentea</i>
	<i>Acacia aneura</i> var. <i>intermedia</i>
	<i>Acacia aneura</i> var. <i>tenuis</i>
	<i>Acacia aneura</i> x <i>ayersiana</i>
	<i>Acacia ayersiana</i>
	<i>Acacia burkittii</i>
	<i>Acacia camptoclada</i>
	<i>Acacia colletioides</i>
	<i>Acacia coolgardiensis</i> subsp. <i>coolgardiensis</i>
	<i>Acacia desertorum</i> var. <i>desertorum</i>
	<i>Acacia eremophila</i> numerous-nerved variant (A.S. George 11924)
	<i>Acacia eremophila</i> var. <i>variabilis</i>
	<i>Acacia exocarpoides</i>
	<i>Acacia helmsiana</i>
	<i>Acacia hemiteles</i>
	<i>Acacia heteroneura</i> var. <i>jutsonii</i>
	<i>Acacia jamesiana</i>
	<i>Acacia kempeana</i>
	<i>Acacia ligulata</i>
	<i>Acacia minyura</i>
	<i>Acacia murrayana</i>
	<i>Acacia nyssophylla</i>
	<i>Acacia oswaldii</i>
	<i>Acacia prainii</i>
	<i>Acacia quadrimarginea</i>
	<i>Acacia ramulosa</i> var. <i>linophylla</i>
	<i>Acacia ramulosa</i> var. <i>ramulosa</i>
	<i>Acacia rhodophloia</i>
	<i>Acacia rigens</i>
	<i>Acacia sibilans</i>
	<i>Acacia sibina</i>
	<i>Acacia sibirica</i>
	<i>Acacia tetragonophylla</i>
	<i>Eucalyptus trivalva</i>
MYOPORACEAE	<i>Eremophila alternifolia</i>



Appendix B: Taxa recorded during Phase 1 and Phase 2

FAMILY	GENUS
	<i>Eremophila decipiens</i> subsp. <i>decipiens</i>
	<i>Eremophila exilifolia</i>
	<i>Eremophila forrestii</i>
	<i>Eremophila forrestii</i> subsp. <i>forrestii</i>
	<i>Eremophila fraseri</i>
	<i>Eremophila georgei</i>
	<i>Eremophila gilesii</i> subsp. <i>gilesii</i>
	<i>Eremophila gilesii</i> subsp. <i>variabilis</i>
	<i>Eremophila glabra</i> subsp. <i>glabra</i>
	<i>Eremophila latrobei</i>
	<i>Eremophila latrobei</i> subsp. <i>filiformis</i>
	<i>Eremophila latrobei</i> subsp. <i>latrobei</i>
	<i>Eremophila longifolia</i>
	<i>Eremophila maculata</i> subsp. <i>brevifolia</i>
	<i>Eremophila miniata</i>
	<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>
	<i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>
	<i>Eremophila platycalyx</i> subsp. <i>platycalyx</i>
	<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>
	<i>Eremophila punctata</i>
	<i>Eremophila scoparia</i>
	<i>Eremophila serrulata</i>
	<i>Eremophila</i> sp. <i>indet.</i>
	<i>Eremophila subfloccosa</i> subsp. <i>lanata</i>
	<i>Myoporum platycarpum</i>
MYRTACEAE	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>
	☞ <i>Baeckea</i> sp. <i>Gt. Victoria Desert</i> (A.S. Weston 14813)
	☞ <i>Baeckea</i> sp. <i>Sandstone</i> (C.A. Gardner s.n. 26 Oct. 1963)
	<i>Calothamnus gilesii</i>
	<i>Calytrix</i> sp. <i>indet.</i>
	<i>Enekbatus eremaeus</i>
	<i>Eucalyptus</i> ? <i>carnei</i>
	<i>Eucalyptus</i> ? <i>leptophylla</i>
	<i>Eucalyptus</i> aff. <i>drummondii</i>
	<i>Eucalyptus concinna</i>
	<i>Eucalyptus ebbanoensis</i> subsp. <i>glauciramula</i>
	<i>Eucalyptus effusa</i>
	<i>Eucalyptus eremicola</i> subsp. <i>eremicola</i>
	<i>Eucalyptus ewartiana</i>
	<i>Eucalyptus gamophylla</i>
	<i>Eucalyptus gongylocarpa</i>
	<i>Eucalyptus gracilis</i>
	<i>Eucalyptus horistes</i>
	<i>Eucalyptus leptopoda</i> subsp. <i>elevata</i>
	<i>Eucalyptus oldfieldii</i>
	<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>



Appendix B: Taxa recorded during Phase 1 and Phase 2

FAMILY	GENUS
	<i>Eucalyptus socialis</i> subsp. <i>victoriensis</i>
	<i>Eucalyptus</i> sp. indet.
	<i>Eucalyptus youngiana</i>
	<i>Homalocalyx thryptomenoides</i>
	<i>Leptospermum fastigiatum</i>
	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)
	<i>Melaleuca</i> aff. <i>leiocarpa</i>
	<i>Melaleuca interioris</i>
	<i>Melaleuca leiocarpa</i>
	<i>Melaleuca zeteticorum</i>
	<i>Micromyrtus obovata</i>
	<i>Micromyrtus stenocalyx</i>
	<i>Thryptomene biseriata</i>
NYCTAGINACEAE	? <i>Boerhavia</i> sp. indet.
	<i>Boerhavia coccinea</i>
OLEACEAE	<i>Jasminum calcarium</i>
	<i>Jasminum didymum</i> subsp. <i>lineare</i>
PAPILIONACEAE	? <i>Daviesia</i> sp. indet.
	<i>Daviesia</i> aff. <i>gracilis</i>
	<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i>
	<i>Daviesia grahamii</i>
	<i>Daviesia purpurascens</i>
	<i>Gompholobium gompholobioides</i>
	<i>Indigofera georgei</i>
	<i>Indigofera</i> sp. indet.
	<i>Jacksonia arida</i>
	<i>Kennedia prorepens</i>
	<i>Leptosema chambersii</i>
	<i>Mirbelia rhagodioides</i>
	<i>Mirbelia seorsifolia</i>
	<i>Otion simplicifolium</i>
	<i>Swainsona affinis</i>
	<i>Swainsona formosa</i>
	<i>Swainsona phacoides</i>
	<i>Swainsona</i> sp. indet.
	<i>Templetonia aculeata</i>
PHORMIACEAE	<i>Dianella revoluta</i> var. <i>divaricata</i>
PITTOSPORACEAE	<i>Pittosporum angustifolium</i>
POACEAE	? <i>Cymbopogon</i> sp.
	? <i>Urochloa piligera</i>
	<i>Amphipogon caricinus</i> var. <i>caricinus</i>



Appendix B: Taxa recorded during Phase 1 and Phase 2

FAMILY	GENUS
	<i>Aristida contorta</i>
	<i>Aristida holathera</i> var. <i>holathera</i>
	<i>Aristida</i> sp. indet.
	<i>Austrostipa ?nitida</i>
	<i>Austrostipa elegantissima</i>
	<i>Austrostipa platychaeta</i>
	<i>Austrostipa</i> sp. indet.
	<i>Cymbopogon obtectus</i>
	<i>Dactyloctenium radulans</i>
	<i>Digitaria brownii</i>
	<i>Enneapogon caeruleus</i>
	<i>Enneapogon cylindricus</i>
	<i>Enneapogon polyphyllus</i>
	<i>Enneapogon</i> sp.
	<i>Enteropogon ramosus</i>
	<i>Eragrostis australasica</i>
	<i>Eragrostis dielsii</i>
	<i>Eragrostis eriopoda</i>
	<i>Eragrostis falcata</i>
	<i>Eragrostis laniflora</i>
	<i>Eragrostis leptocarpa</i>
	<i>Eragrostis pergracilis</i>
	<i>Eragrostis setifolia</i>
	<i>Eragrostis</i> sp. indet.
	<i>Eragrostis xerophila</i>
	<i>Eriachne helmsii</i>
	<i>Eriachne mucronata</i>
	<i>Eriachne pulchella</i> subsp. <i>pulchella</i>
	<i>Eriachne</i> sp. indet.
	<i>Eriochloa ?pseudoacrotricha.</i>
	<i>Monachather paradoxus</i>
	<i>Paspalidium basicladum</i>
	<i>Paspalidium clementii</i>
	<i>Paspalidium</i> sp. indet.
	<i>Themeda triandra</i>
	<i>Thyridolepis multiculmis</i>
	<i>Thyridolepis xerophila</i>
	<i>Triodia ?scariosa</i>
	<i>Triodia ?schinzii</i>
	<i>Triodia basedowii</i>
	<i>Triodia desertorum</i>
	<i>Triodia</i> sp. indet.
	<i>Tripogon loliiformis</i>
	<i>Triraphis mollis</i>
POLYGONACEAE	<i>Muehlenbeckia florulenta</i>



Appendix B: Taxa recorded during Phase 1 and Phase 2

FAMILY	GENUS
PORTULACACEAE	<i>Calandrinia balonensis</i>
PORTULACACEAE	<i>Calandrinia</i> sp. indet.
PROTEACEAE	<i>Banksia elderiana</i>
	<i>Conospermum toddii</i>
	<i>Grevillea acacioides</i>
	<i>Grevillea didymobotrya</i> subsp. <i>didymobotrya</i>
	<i>Grevillea juncifolia</i>
	<i>Grevillea juncifolia</i> subsp. <i>temulenta</i>
	<i>Grevillea nematophylla</i>
	<i>Grevillea nematophylla</i> subsp. <i>planicosta</i>
	<i>Grevillea sarissa</i>
	<i>Grevillea secunda</i>
	<i>Grevillea stenobotrya</i>
	<i>Hakea francisiana</i>
	<i>Hakea lorea</i> subsp. <i>lorea</i>
	<i>Hakea rhombales</i>
	<i>Persoonia coriacea</i>
RESTIONACEAE	<i>Lepidobolus deserti</i>
RHAMNACEAE	<i>Cryptandra distigma</i>
RUBIACEAE	<i>Pomax</i> sp. desert (A.S. George 11968)
	<i>Psydrax attenuata</i>
	<i>Psydrax latifolia</i>
	<i>Psydrax rigidula</i>
	<i>Psydrax suaveolens</i>
RUTACEAE	<i>Phebalium canaliculatum</i>
SANTALACEAE	<i>Anthobolus leptomerioides</i>
SANTALACEAE	<i>Exocarpos sparteus</i>
	<i>Santalum acuminatum</i>
	<i>Santalum lanceolatum</i>
	<i>Santalum spicatum</i>
SAPINDACEAE	? <i>Stackhousia</i> sp. indet.
	<i>Alectryon oleifolius</i> subsp. <i>canescens</i>
	<i>Dodonaea adenophora</i>
	<i>Dodonaea lobulata</i>
	<i>Dodonaea microzyga</i> var. <i>acrolobata</i>
	<i>Dodonaea rigida</i>
	<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>
SOLANACEAE	<i>Anthotroche pannosa</i>



Appendix B: Taxa recorded during Phase 1 and Phase 2

FAMILY	GENUS
	<i>Duboisia hopwoodii</i>
	<i>Nicotiana rosulata</i>
	<i>Nicotiana</i> sp. indet.
	<i>Solanum centrale</i>
	<i>Solanum ellipticum</i>
	<i>Solanum ferocissimum</i>
	<i>Solanum lasiophyllum</i>
	<i>Solanum nummularium</i>
	<i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>
	<i>Solanum petrophilum</i>
	<i>Solanum plicatile</i>
	<i>Solanum</i> sp. indet.
STACKHOUSIACEAE	<i>Stackhousia megaloptera</i>
STERCULIACEAE	<i>Commersonia melanopetala</i>
	<i>Hannafordia bissillii</i> subsp. <i>bissillii</i>
	<i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i>
	<i>Keraudrenia velutina</i>
	<i>Keraudrenia velutina</i> subsp. <i>elliptica</i>
STYLIDIACEAE	<i>Stylidium induratum</i>
	<i>Stylidium limbatum</i>
THYMELAEACEAE	<i>Pimelea microcephala</i> subsp. <i>microcephala</i>
VIOLACEAE	<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>
XANTHORRHOEACEAE	<i>Xanthorrhoea thorntonii</i>
ZYGOPHYLLACEAE	<i>Zygophyllum ?glaucum</i>
	<i>Zygophyllum apiculatum</i>
	<i>Zygophyllum aurantiacum</i>
	<i>Zygophyllum eremaeum</i>



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Appendix C Declared Rare and Priority Flora Potentially Occurring Within the Tropicana Project



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**Appendix C-1 Declared Rare and Priority Flora Potentially Occurring within the Tropicana Project Area
(Western Australian Herbarium FloraBase 2008)**

SPECIES	PRIORITY	LOCATION	HABITAT	LIKELIHOOD OF OCCURRENCE
<i>Conospermum toddii</i> (Proteaceae)	DRF	E of Argus Corner, N of Streich Mound, Queen Victoria Spring Nature Reserve, Officer Basin airstrip, Yundagabbi, E of Ponton Creek.	Deep red-yellow sand of dunes	Certain. Already recorded in this project area (<i>ecologia</i> , 2006b)
<i>Eucalyptus articulata</i> (Myrtaceae)	DRF	E of Mulga Rockhole	In red sand on crest of dune, or on skeletal soil of rocky saprolite (decayed granite) ridge	Possible. Easily overlooked as similar to more common mallees. Has been collected at Plumridge Lakes NR (<i>ecologia</i> 2005a).
<i>Thryptomene wittweri</i> (Myrtaceae)	DRF	Mt Augustus, Mt Meharry, White Cliffs Station, E of Laverton.	Rocky slopes, cliff faces, breakaways in sandstone, ironstone, laterite	Not likely as lateritic and rocky habitat type is not common in project area. However cannot completely eliminate possibility.
<i>Micromyrtus helmsii</i> (Myrtaceae)	P1	Blackstone South Rd	Tall sandhills	High. Although known records are limited to much further north east, it occurs in same habitat and similar vegetation to project area. This species could well be widespread but hitherto poorly known and collected.
<i>Philotheca linearis</i> (Rutaceae)	P1	WNW of Outcamp Well	Yellow sand, base of granite outcrop	Unlikely; has only been recorded at this site. Lack of granite in project area reduces possibility of occurrence.
<i>Philotheca tubiflora</i> (Rutaceae)	P1	Adam Range, Laverton – Cosmo Newbery Road, E of Lichman Well, Point Kidman, White Cliffs Station, Deeba Rock Hole	Rocky rises and hills; outcrops	Unlikely. Species has been previously collected further to the north than the project area on rocky rises, hills and outcrops, habitats lacking in the current project area.



SPECIES	PRIORITY	LOCATION	HABITAT	LIKELIHOOD OF OCCURRENCE
<i>Verticordia mirabilis</i> (Myrtaceae)	P1	S of Warburton	Skeletal soil, laterite, sandstone, shale, rocky outcrops	Unlikely. Recorded further NE than project area; habitat of project area unlikely to be suitable for this species.
<i>Labichea deserticola</i> (Caesalpiniaceae)	P1	Victoria Desert Camp 54	Sandstone ridges	Low. This species favours sandstone ridges found rarely in the current project site. Specimens held in the State Herbarium were collected in 1891.
<i>Phyllanthus baeckeoides</i> (Euphorbiaceae)	P1	SE of Laverton, Sparrow Well, Windimurra Station, E of Laverton on the White Cliffs road.	Red lateritic and sandy clay soils. Granite outcrops.	Low, due to lack of suitable soils and laterite within the study area.
<i>Dampiera eriantha</i> (Goodeniaceae)	P1	Victoria Desert Camp 54		Certain. Recorded within study area.
<i>Lechenaultia aphylla</i> (Goodeniaceae)	P1	Roadside between Cosmo Newbery and Laverton	Red sands; slopes, drainage areas	Possible, habitat similar to that in the study site.
<i>Eremophila aurievisca</i> (Myoporaceae)	P1	SE of Rason Lake	Stony skeletal red clay. Between breakaways and clay pans	High. Found close to the study site, although stony slopes and breakaways are not frequently occurring in area of interest.
<i>Trachymene pyrophila</i> (Apiaceae)	P2	SW of Nippon Junction, Queen Victoria Springs Nature reserve, Queen Victoria Springs, NNE Streich Mound	Yellow or orange sand. Sandplains; germinating after fire or other disturbances such as mining.	Possible; may not be seen due to lack of fire/other disturbance in habitat.
<i>Olearia arida</i> (Asteraceae)	P2	N of Plumridge Lakes Reserve, Officer Basin Airstrip, W of Plumridge Lakes, S of Neale Junction	Red or yellow sand; undulating low rises	Certain. Occurs within and close to the study site in similar habitat and vegetation to that found at the sites.



SPECIES	PRIORITY	LOCATION	HABITAT	LIKELIHOOD OF OCCURRENCE
<i>Dicrastyliis nicholasii</i> (Lamiaceae)	P2	Plumridge Lakes Reserve, W boundary fence, Kanada Station	Red sandy loam	Certain. Occurs within and close to the study site in similar habitat and vegetation to that found at the sites (<i>ecologia</i> , 2006b; 2006c)
<i>Physopsis chrysotricha</i> (Lamiaceae)	P2	Victoria Desert, N to NNE of Queen Victoria Springs Nature Reserve	Red sand over calcrete	Possible; has been collected close to study site from similar habitat previously.
<i>Eremophila revoluta</i> (Myoporaceae)	P2	E of Mt Everhard, Point Lilian, road to Eagle Bore, S of Eagle Bore campsite, Mt William Lambert, SW of Young Range, SSW of Charlies Knob, E of Mungilli Claypan	Rocky clay, red sand. Rocky hills and plains, sand plains	Low. Occurrence of rocky hills and slopes within study area low. Previous collections made further to the north.
<i>Eremophila undulata</i> (Myoporaceae)	P2	Neale Breakaway, Lake Helms, S of Neale Junction	Red-brown clay loam, sand	Possible. Habitat type similar to that found in the area of interest. May be found in association with mallee Eucalypts and <i>Triodia</i> .



SPECIES	PRIORITY	LOCATION	HABITAT	LIKELIHOOD OF OCCURRENCE
<i>Baeckea</i> sp. Gt Victoria Desert 9.0 (Myrtaceae)	P2	N of Streich Mound in Queen Victoria Spring Nature Reserve, Officer Basin	Yellow sand, gently sloping sand plain	Certain. Recorded within study area. Also occurs in similar vegetation type and habitat to the project site. Has been collected at Plumridge Lakes NR (<i>ecologia</i> 2005a).
10.0 <i>Calytrix warburtonensis</i> 11.0 (Myrtaceae)	P2	E of Neale Junction, SW of Warburton, Muggan Rockhole	Rocky hills; breakaways	Unlikely. Occurrence of rocky hills and breakaways within project area low. Previous collections made further to the north.
12.0 <i>Malleostemon</i> sp. Officer Basin 13.0 (Myrtaceae)	P2	ENE of Queen Victoria Spring, SE of Officer Basin,	Yellow sand, dune slopes	Certain. Recorded within study area. The habitat this species has been collected from elsewhere is similar to that found in the project area.
14.0 <i>Micromyrtus stenocalyx</i> 15.0 (Myrtaceae)	P2	Plumridge Lakes Nature Reserve, Queen Victoria Spring, PNC Road, Queen Victoria Spring Nature Reserve, NE of Cundeelee	Yellow to red sand, dune slopes and crest	Certain. Recorded in the study area and quite common in broader area. Species has previously been collected from sites close to the project area, with similar habitats to those found in the project area. (<i>ecologia</i> 2005b; 2006a; 2006b)
<i>Isotropis canescens</i> (Papilionaceae)	P2	Lochada Station, NNE of Queen Victoria Spring, N of Cundeelee,	Yellow clayey sand, sand plains	Possible. Species has been collected previously in similar habitats to that found within the study site. Has been collected at Plumridge Lakes NR (<i>ecologia</i> , 2005a)
<i>Grevillea secunda</i> (Proteaceae)	P2	NE of Queen Victoria Spring, Streich Mound, Queen Victoria Spring Nature Reserve, Officer Basin, Doney Lagoon	Yellow or red sand. Sand dunes, sand plains	Certain. Recorded in the study area. Species found predominantly on yellow or red sand dunes and plains common in project area. Has been collected at Plumridge Lakes NR (<i>ecologia</i> 2005a) ; 2006a; 2006b



SPECIES	PRIORITY	LOCATION	HABITAT	LIKELIHOOD OF OCCURRENCE
<i>Calotis latiuscula</i> (Asteraceae)	P3	Mount Aloysius, Circus Hill, Sir Fredrick Range, Rebecca Creek, W of Ridge Bore, W of Mount Delphine, Giles, E of Warburton	Sand, loam. Rocky hillsides, floodplains, rocky creeks or river beds	Unlikely; recorded distribution is further N of project area, and rocky habitat uncommon within project area.
<i>Microcorys macredieana</i> (Lamiaceae)	P3	Queen Victoria Spring, Bounty Powerline, N of Steich Mound, NNE Queen Victoria Spring, SE of Angus Corner, E of Officer Basin,	Yellow sand. Dunes and sand plains	Certain. Recorded in the study area Species has been previously found in similar habitat close to project area (<i>ecologia</i> , 2006a; 2006b).
<i>Calytrix praecipua</i> (Myrtaceae)	P3	Virgin Spring, De La Poer Nature Reserve, Niagara Dam, E of Erong Homestead, Carnarvon Range, E of Bandy Station, E of Laverton on White Cliffs Road, Bubble Well	Skeletal sandy soils over granite or laterite. Breakaways, outcrops	Unlikely. Occurrence of granite and laterite in the project area uncommon, as are breakaways.
<i>Eucalyptus pimpleana</i> (Myrtaceae)	P3	Queen Victoria Springs Nature Reserve, E and N of Mulga Rockhole, S of Kigella Rocks, SW of Wanna Lakes, N of Watson	Red sand, sand dunes and plains	High. Habitat that the species has previously been collected on very similar to that found within boundaries of project area, species collected close to project area.
<i>Eucalyptus sparsa</i> (Myrtaceae)	P3	Blackstone to Mulga Park Road, Skirmish Hill Road	Red sand, sand dunes	Unlikely, although habitat in project area suggests this species may be found there. Species previously collected much further to the N and E than the project area.
<i>Melaleuca apostiba</i> (Myrtaceae)	P3	E of Lake Wells, S of Lake Minigwal, Point Bot to Lake Rason Road, Officer Basin	Deep red sand, edge of claypan	Possible. Habitat species collected from is similar to that present in project area.
<i>Calandrinia porifera</i> (Portulacaceae)	P3	NE of Mukinbudin, Yanneymooning Nature Reserve, SW of Muntagin, SSE of Duri, Between Cundeelee Mission and Queen Victoria Spring	Granite rocks	Low. Granite uncommon within boundaries of project area. However, this species has been recorded within the Queen Victoria Spring Nature Reserve, close to the project area.



SPECIES	PRIORITY	LOCATION	HABITAT	LIKELIHOOD OF OCCURRENCE
<i>Acacia eremophila</i> numerous-nerved variant (Mimosaceae)	P3	S of Neale Junction, E of Boingaring Rock, S end of Plumridge Lakes, W of Balladonia	Sandy soils, flats	Certain. Recorded in the study area. Species collected from similar habitats close to the study area.
<i>Sauropus ramosissimus</i> (Euphorbiaceae)	P3	N of Leonora, SW of Warburton, NE of Laverton, Carnegie Station	Gravel over ironstone-laterite substrate, lateritic breakaway	Low. Laterites uncommon within boundaries of project area.
<i>Daviesia purpurascens</i> (Papilionaceae)	P4	WNW of Queen Victoria Rock Road, Brookton – Corrigin Highway, Mt Jackson, W side of Midland Road, Namelcatchem, Mt Manning Range, Queen Victoria Spring Nature Reserve, Tamala Station, Aurora Range	Sandy or loamy soils over laterites. Flats, ridges	Certain. Recorded in the study area, although laterites uncommon within boundaries of project area. This species has also been recorded within the Queen Victoria Spring Nature Reserve, and close to the project area (<i>ecologia</i> , 2006a; 2006b).
<i>Comesperma viscidulum</i> (Polygalaceae)	P4	Little Sandy Desert, WNW of Lake Sunshine, Carnarvon Range, E of Cosmo Newbery, Officer Basin, Rawlinson Range	Sandstone breakaway, red gritty sand, dune crest, swale, rocky slopes	Possible. Specimens collected from similar habitats to those found in project area (<i>ecologia</i> , 2006a).
<i>Lepidobolus deserti</i> (Restionaceae)	P4	Goongarrie Station, N of Queen Victoria Spring Nature Reserve, Streich Mound, Kangaroo Hills Timber Reserve, S of Woolgangie, E of Queen Victoria Spring, SE of Queen Victoria Spring, E of Janies Well, Comet Vale	Yellow or orange sand. Sand dunes	Already recorded in the project area, and preferred habitat of species does occur within project area (<i>ecologia</i> , 2005b; 2006a; 2006b; 2006c).
<i>Eucalyptus nigrifunda</i> (Myrtaceae)	P4	Lilian Adcott Rock, SE of Mallee Hen Rocks, Mt Dennis region, SE of Laverton, NW of Cogleia Well	Sandy clay, breakaways of decomposing granite	Possible; collected from areas fairly close to project site, although decomposing granite breakaways uncommon in project area.

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Acacia eremophila</i> numerous-nerved variant	P3	644	6752	AEN6	10
1/11/08	TRF3	<i>Acacia eremophila</i> numerous-nerved variant	P3	644	6752	AEN6	10
1/11/08	TRF3	<i>Acacia eremophila</i> numerous-nerved variant	P3	644	6752	AEN5	2
1/11/08	TRF3	<i>Acacia eremophila</i> numerous-nerved variant	P3	644	6752	AEN5	2
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	646	6767	AEN16	10
717	TPH2	<i>Acacia eremophila</i> numerous-nerved variant	P3	647	6761	AEN7	2
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN39	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN41	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN38	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN40	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN37	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN36	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN35	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN42	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN43	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN34	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN33	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN44	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN45	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN32	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN46	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN31	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN47	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN30	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN48	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN29	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN49	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN50	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN28	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	648	6767	AEN27	10

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN66	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN67	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN82	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN68	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN70	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN69	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN71	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN51	5
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN72	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN73	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN15	5
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN74	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN75	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN76	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN77	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN78	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN79	10
1/11/08	TRF3	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6764	AEN1	7
1/11/08	TRF3	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6764	AEN1	7
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN80	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN81	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN18	10
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN17	5
1/11/08	TRF3	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6764	AEN4	25
1/11/08	TRF3	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6764	AEN4	25
1/11/08	TRF3	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6763	AEN3	1
1/11/08	TRF3	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6763	AEN3	1
844	TRF2	<i>Acacia eremophila</i> numerous-nerved variant	P3	650	6760	AEN19	10
965	WRC	<i>Acacia eremophila</i> numerous-nerved variant	P3	651	6772	AEN85	5
965	WRC	<i>Acacia eremophila</i> numerous-nerved variant	P3	651	6769	AEN84	5

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
							796
717	TPH1	<i>Acacia eremophila</i> var. <i>variabilis</i>	P3	646 [REDACTED]	6760 [REDACTED]	AEVR1	10
717	TPH1	<i>Acacia eremophila</i> var. <i>variabilis</i>	P3	646 [REDACTED]	6760 [REDACTED]	AEVR2	5
717	TPH1	<i>Acacia eremophila</i> var. <i>variabilis</i>	P3	646 [REDACTED]	6760 [REDACTED]	AEVR3	20
717	TPH1	<i>Acacia eremophila</i> var. <i>variabilis</i>	P3	649 [REDACTED]	6763 [REDACTED]	AEVR4	10
							45
717	TPH2	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	632 [REDACTED]	6752 [REDACTED]	BsG129	5
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	642 [REDACTED]	6755 [REDACTED]	BsG120	4
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	642 [REDACTED]	6755 [REDACTED]	BsG119	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	642 [REDACTED]	6755 [REDACTED]	BsG125	3
717	TPH2	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	643 [REDACTED]	6763 [REDACTED]	BsG132	4
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	643 [REDACTED]	6761 [REDACTED]	BsG1	1
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	643 [REDACTED]	6761 [REDACTED]	BsG2	1
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	643 [REDACTED]	6762 [REDACTED]	BsG4	3
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	643 [REDACTED]	6762 [REDACTED]	BsG3	2
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	643 [REDACTED]	6762 [REDACTED]	BsG5	10
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	644 [REDACTED]	6763 [REDACTED]	BsG8	100
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	644 [REDACTED]	6765 [REDACTED]	BsG12	3
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	644 [REDACTED]	6763 [REDACTED]	BsG10	5
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	644 [REDACTED]	6763 [REDACTED]	BsG9	50
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	644 [REDACTED]	6758 [REDACTED]	BsG89	6
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6758 [REDACTED]	BsG41	14
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6758 [REDACTED]	BsG73	10
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6757 [REDACTED]	BsG50	2
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6763 [REDACTED]	BsG11	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6758 [REDACTED]	BsG71	4
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6763 [REDACTED]	BsG7	10
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6765 [REDACTED]	BsG14	1

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6761 [REDACTED]	BsG88	1
717	TPH1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6757 [REDACTED]	BsG136	2
717	TPH2	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6757 [REDACTED]	BsG139	2
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6761 [REDACTED]	BsG69	300
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6761 [REDACTED]	BsG36	100
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6761 [REDACTED]	BsG68	20
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6765 [REDACTED]	BsG13	30
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6761 [REDACTED]	BsG67	7
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6761 [REDACTED]	BsG113	300
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6761 [REDACTED]	BsG109	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6761 [REDACTED]	BsG70	20
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6761 [REDACTED]	BsG37	10
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	645 [REDACTED]	6761 [REDACTED]	BsG108	60
717	TPH2	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6763 [REDACTED]	BsG133	1
717	TPH1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6763 [REDACTED]	BsG140	2
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6763 [REDACTED]	BsG6	12
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6766 [REDACTED]	BsG25	10
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6754 [REDACTED]	BsG124	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6758 [REDACTED]	BsG107	1
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6766 [REDACTED]	BsG19	16
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6754 [REDACTED]	BsG121	50
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6766 [REDACTED]	BsG18	20
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6754 [REDACTED]	BsG122	2
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6754 [REDACTED]	BsG123	2
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6756 [REDACTED]	BsG66	5
717	TPH1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6758 [REDACTED]	BsG144	2
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6766 [REDACTED]	BsG15	14
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6761 [REDACTED]	BsG101	2
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6759 [REDACTED]	BsG35	12
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646 [REDACTED]	6759 [REDACTED]	BsG34	5

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6766	BsG20	12
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6761	BsG100	6
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6758	BsG106	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6759	BsG32	13
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6756	BsG74	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6756	BsG26	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6756	BsG72	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6756	BsG82	2
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6756	BsG85	2
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6761	BsG65	9
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6766	BsG23	15
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6766	BsG16	30
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6759	BsG54	30
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6759	BsG53	19
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6759	BsG55	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6756	BsG95	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6759	BsG56	46
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6759	BsG52	2
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6759	BsG51	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6759	BsG57	6
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6758	BsG111	52
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6759	BsG58	1000
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	646	6758	BsG110	6
717	TPH1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6764	BsG141	2
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6763	BsG43	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6759	BsG59	20
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6763	BsG84	17
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6761	BsG96	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6763	BsG42	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6759	BsG60	6

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6761	BsG97	6
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6767	BsG118	3
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6755	BsG31	3
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6759	BsG61	17
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6761	BsG102	41
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6759	BsG62	16
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6761	BsG103	8
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6761	BsG99	12
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6761	BsG98	10
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6755	BsG94	16
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6766	BsG24	10
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6763	BsG80	7
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6755	BsG45	4
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6757	BsG105	6
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6755	BsG93	5
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6757	BsG104	7
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6766	BsG17	10
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6767	BsG117	10
844	TRF2	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6771	BsG135	2
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6755	BsG30	2
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6767	BsG126	10
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6766	BsG22	2
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6762	BsG79	10
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6757	BsG63	2
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6762	BsG78	9
1/10/07	TRF1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6766	BsG21	20
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6757	BsG64	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6762	BsG77	14
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6755	BsG27	5
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6755	BsG90	20

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6770	BsG29	15
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6770	BsG92	60
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6770	BsG28	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6757	BsG76	9
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6757	BsG75	6
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6757	BsG86	16
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6755	BsG91	50
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6768	BsG127	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6755	BsG44	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6761	BsG46	11
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6761	BsG47	8
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6761	BsG48	2
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	647	6761	BsG49	1
717	TPH2	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	648	6761	BsG134	19
717	TPH1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	648	6761	BsG145	19
717	TPH1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	648	6761	BsG146	2
717	TPH2	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	648	6761	BsG147	2
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	648	6757	BsG33	1
717	TPH1	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	648	6757	BsG142	2
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	648	6762	BsG114	11
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	648	6759	BsG112	7
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	648	6762	BsG115	8
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	648	6762	BsG116	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	649	6769	BsG81	70
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	649	6769	BsG83	91
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	649	6769	BsG87	1
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	649	6762	BsG38	10
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	649	6762	BsG39	10
1/11/08	TRF3	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	650	6762	BsG40	1
717	TPH2	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	657	6771	BsG130	25

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
874	TRE	<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)	P2	669 [REDACTED]	6777 [REDACTED]	BsG161	10
							3314
1/11/08	TRF3	<i>Baeckea</i> sp. Sandstone	P1	645 [REDACTED]	6757 [REDACTED]	BsS5	40
1/11/08	TRF3	<i>Baeckea</i> sp. Sandstone	P1	645 [REDACTED]	6758 [REDACTED]	BsS4	20
1/11/08	TRF3	<i>Baeckea</i> sp. Sandstone	P1	645 [REDACTED]	6758 [REDACTED]	BsS3	1
1/11/08	TRF3	<i>Baeckea</i> sp. Sandstone	P1	646 [REDACTED]	6767 [REDACTED]	BsS1	6
1/11/08	TRF3	<i>Baeckea</i> sp. Sandstone	P1	646 [REDACTED]	6767 [REDACTED]	BsS2	3
							70
717	TPH2	<i>Caesia talingka</i> C. Tauss ms	SOI	641 [REDACTED]	6743 [REDACTED]	CST98	30
717	TPH2	<i>Caesia talingka</i> C. Tauss ms	SOI	641 [REDACTED]	6743 [REDACTED]	CST99	30
717	TPH2	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6745 [REDACTED]	CST96	6
717	TPH2	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6746 [REDACTED]	CST95	5
717	TPH2	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6750 [REDACTED]	CST93	20
717	TPH2	<i>Caesia talingka</i> C. Tauss ms	SOI	648 [REDACTED]	6755 [REDACTED]	CST94	10
520	DRF	<i>Caesia talingka</i> C. Tauss ms	SOI	648 [REDACTED]	6756 [REDACTED]	CR1	100
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	649 [REDACTED]	6761 [REDACTED]	CST91	10
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	649 [REDACTED]	6761 [REDACTED]	CST92	20
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	649 [REDACTED]	6761 [REDACTED]	CST90	21
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6762 [REDACTED]	CST1	6
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	644 [REDACTED]	6763 [REDACTED]	CST2	8
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	644 [REDACTED]	6763 [REDACTED]	CST3	10
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6763 [REDACTED]	CST4	18
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646 [REDACTED]	6764 [REDACTED]	CST5	8
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646 [REDACTED]	6764 [REDACTED]	CST6	26
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6764 [REDACTED]	CST7	20
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	644 [REDACTED]	6764 [REDACTED]	CST8	20
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	644 [REDACTED]	6764 [REDACTED]	CST9	20
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	643 [REDACTED]	6764 [REDACTED]	CST10	15

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6764 [REDACTED]	CST11	5
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6764 [REDACTED]	CST12	10
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6764 [REDACTED]	CST14	5
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6764 [REDACTED]	CST15	5
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6764 [REDACTED]	CST13	1
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6764 [REDACTED]	CST24	2
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6764 [REDACTED]	CST21	19
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6764 [REDACTED]	CST22	5
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6764 [REDACTED]	CST19	50
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6764 [REDACTED]	CST23	13
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	644 [REDACTED]	6764 [REDACTED]	CST17	6
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	644 [REDACTED]	6764 [REDACTED]	CST25	12
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	644 [REDACTED]	6764 [REDACTED]	CST16	7
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6764 [REDACTED]	CST26	3
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6764 [REDACTED]	CST28	1
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645 [REDACTED]	6764 [REDACTED]	CST27	3
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647 [REDACTED]	6765 [REDACTED]	CST44	37
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647 [REDACTED]	6765 [REDACTED]	CST42	5
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647 [REDACTED]	6765 [REDACTED]	CST43	3
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647 [REDACTED]	6765 [REDACTED]	CST41	7
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647 [REDACTED]	6765 [REDACTED]	CST29	1
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647 [REDACTED]	6765 [REDACTED]	CST45	15
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647 [REDACTED]	6765 [REDACTED]	CST30	12
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646 [REDACTED]	6765 [REDACTED]	CST31	7
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646 [REDACTED]	6765 [REDACTED]	CST46	4
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646 [REDACTED]	6765 [REDACTED]	CST51	3
717	TPH2	<i>Caesia talingka</i> C. Tauss ms	SOI	646 [REDACTED]	6765 [REDACTED]	CST97	30
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646 [REDACTED]	6765 [REDACTED]	CST47	12
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646 [REDACTED]	6765 [REDACTED]	CST48	36
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646 [REDACTED]	6765 [REDACTED]	CST32	10

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646	6765	CST33	15
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646	6765	CST49	10
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646	6765	CST52	10
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646	6765	CST34	15
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646	6765	CST50	6
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646	6765	CST53	2
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646	6765	CST35	10
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646	6765	CST36	20
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646	6765	CST37	15
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646	6765	CST38	10
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6765	CST57	2
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6765	CST56	1
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646	6765	CST59	6
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6765	CST61	2
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6765	CST60	5
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6765	CST55	8
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6765	CST62	12
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6765	CST54	8
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6765	CST63	4
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6765	CST64	10
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6765	CST65	15
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646	6765	CST58	3
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645	6765	CST39	3
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	645	6765	CST40	6
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646	6766	CST67	4
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST69	4
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST68	6
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST66	1
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST71	3
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST70	3

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST72	7
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST83	4
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST75	1
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST76	1
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST77	4
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST78	2
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST74	1
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST79	1
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST80	1
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST73	7
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST82	4
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST85	3
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST84	1
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	647	6766	CST87	5
1/10/07	TRF1	<i>Caesia talingka</i> C. Tauss ms	SOI	646	6766	CST89	29
							1022
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	645	6765	CT47	3
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	645	6765	CT45	3
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	645	6765	CT82	125
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	645	6765	CT81	78
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	645	6765	CT35	17
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	645	6764	CT14	162
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	645	6765	CT51	58
717	TPH2	<i>Conospermum toddii</i>	DRF	645	6750	CT103	60
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	645	6764	CT27	113
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	645	6765	CT78	283
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	646	6765	CT77	7
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	646	6765	CT46	36
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	646	6765	CT44	1

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	646 [REDACTED]	6765 [REDACTED]	CT76	53
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	646 [REDACTED]	6765 [REDACTED]	CT75	1
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	646 [REDACTED]	6764 [REDACTED]	CT5	4
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	646 [REDACTED]	6764 [REDACTED]	CT2	64
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	646 [REDACTED]	6765 [REDACTED]	CT41	35
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	646 [REDACTED]	6765 [REDACTED]	CT73	1
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	646 [REDACTED]	6765 [REDACTED]	CT68	1
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	646 [REDACTED]	6765 [REDACTED]	CT67	2
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	646 [REDACTED]	6765 [REDACTED]	CT72	6
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	646 [REDACTED]	6765 [REDACTED]	CT64	51
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	646 [REDACTED]	6765 [REDACTED]	CT70	1
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	646 [REDACTED]	6765 [REDACTED]	CT71	4
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	646 [REDACTED]	6765 [REDACTED]	CT58	47
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	647 [REDACTED]	6766 [REDACTED]	CT88	104
1/10/07	TRF1	<i>Conospermum toddii</i>	DRF	647 [REDACTED]	6766 [REDACTED]	CT95	4
717	TPH2	<i>Conospermum toddii</i>	DRF	651 [REDACTED]	6773 [REDACTED]	CT101	5
717	TPH2	<i>Conospermum toddii</i>	DRF	651 [REDACTED]	6773 [REDACTED]	CT102	5
							1334
717	TPH2	<i>Dampiera eriantha</i>	P1	640 [REDACTED]	6745 [REDACTED]	DE68	2
717	TPH2	<i>Dampiera eriantha</i>	P1	643 [REDACTED]	6747 [REDACTED]	DE71	2
717	TPH2	<i>Dampiera eriantha</i>	P1	643 [REDACTED]	6747 [REDACTED]	DE72	1
717	TPH2	<i>Dampiera eriantha</i>	P1	640 [REDACTED]	6749 [REDACTED]	DE70	2
717	TPH2	<i>Dampiera eriantha</i>	P1	643 [REDACTED]	6749 [REDACTED]	DE69	2
717	TPH2	<i>Dampiera eriantha</i>	P1	635 [REDACTED]	6753 [REDACTED]	DE67	5
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	645 [REDACTED]	6753 [REDACTED]	DE17	50
717	TPH2	<i>Dampiera eriantha</i>	P1	630 [REDACTED]	6753 [REDACTED]	DE66	2
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	645 [REDACTED]	6753 [REDACTED]	DE16	20
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646 [REDACTED]	6753 [REDACTED]	DE15	10
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646 [REDACTED]	6753 [REDACTED]	DE14	20

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646	6754	DE1	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646	6754	DE2	4
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646	6754	DE4	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646	6754	DE3	37
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646	6754	DE5	8
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6754	DE6	4
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	641	6754	DE18	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	641	6754	DE13	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	641	6754	DE12	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	641	6754	DE19	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	641	6754	DE22	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	641	6754	DE20	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	641	6754	DE21	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	641	6754	DE25	5
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	641	6754	DE23	2
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	641	6754	DE24	3
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	641	6754	DE26	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	641	6754	DE28	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	641	6754	DE27	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	641	6754	DE29	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6755	DE65	2
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6755	DE64	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6755	DE46	4
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6755	DE47	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646	6756	DE32	3
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646	6756	DE55	21
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646	6756	DE54	3
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646	6756	DE52	4
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646	6756	DE53	6
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646	6756	DE56	22

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646	6756	DE51	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646	6756	DE50	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646	6756	DE30	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	646	6756	DE31	2
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6756	DE57	41
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6756	DE58	3
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6756	DE59	2
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6756	DE63	7
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6756	DE34	11
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6756	DE62	15
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6756	DE60	8
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6756	DE61	8
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6756	DE33	5
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6756	DE36	3
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6756	DE35	5
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6756	DE37	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6756	DE38	5
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6756	DE39	4
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	648	6757	DE41	10
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	648	6757	DE42	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	648	6757	DE40	11
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	648	6757	DE43	3
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	648	6757	DE44	23
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	648	6757	DE45	1
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	648	6758	DE48	2
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	648	6758	DE49	2
844	TRF2	<i>Dampiera eriantha</i>	P1	646	6767	DE73	5
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6768	DE7	4
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6768	DE8	4
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647	6768	DE10	4

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647 [REDACTED]	6768 [REDACTED]	DE9	4
1/11/08	TRF3	<i>Dampiera eriantha</i>	P1	647 [REDACTED]	6768 [REDACTED]	DE11	1
							457
717	TPH2	<i>Daviesia purpurascens</i>	P4	631 [REDACTED]	6746 [REDACTED]	DP24	5
717	TPH2	<i>Daviesia purpurascens</i>	P4	649 [REDACTED]	6748 [REDACTED]	DP18	30
1/11/08	TRF3	<i>Daviesia purpurascens</i>	P4	651 [REDACTED]	6761 [REDACTED]	DP6	86
1/11/08	TRF3	<i>Daviesia purpurascens</i>	P4	650 [REDACTED]	6762 [REDACTED]	DP12	50
1/11/08	TRF3	<i>Daviesia purpurascens</i>	P4	651 [REDACTED]	6762 [REDACTED]	DP13	3
1/11/08	TRF3	<i>Daviesia purpurascens</i>	P4	651 [REDACTED]	6762 [REDACTED]	DP5	29
1/11/08	TRF3	<i>Daviesia purpurascens</i>	P4	651 [REDACTED]	6762 [REDACTED]	DP1	21
1/11/08	TRF3	<i>Daviesia purpurascens</i>	P4	651 [REDACTED]	6762 [REDACTED]	DP9	1
1/11/08	TRF3	<i>Daviesia purpurascens</i>	P4	651 [REDACTED]	6762 [REDACTED]	DP8	1
1/11/08	TRF3	<i>Daviesia purpurascens</i>	P4	651 [REDACTED]	6762 [REDACTED]	DP10	20
1/11/08	TRF3	<i>Daviesia purpurascens</i>	P4	650 [REDACTED]	6762 [REDACTED]	DP3	8
1/11/08	TRF3	<i>Daviesia purpurascens</i>	P4	651 [REDACTED]	6762 [REDACTED]	DP2	7
1/11/08	TRF3	<i>Daviesia purpurascens</i>	P4	650 [REDACTED]	6762 [REDACTED]	DP4	5
1/11/08	TRF3	<i>Daviesia purpurascens</i>	P4	651 [REDACTED]	6762 [REDACTED]	DP7	278
1/11/08	TRF3	<i>Daviesia purpurascens</i>	P4	651 [REDACTED]	6762 [REDACTED]	DP11	12
							556
717	TPH2	<i>Dicrastylis cundeeleensis</i>	P3	630 [REDACTED]	6745 [REDACTED]	DC66	10
717	TPH2	<i>Dicrastylis cundeeleensis</i>	P3	630 [REDACTED]	6747 [REDACTED]	DC67	30
717	TPH2	<i>Dicrastylis cundeeleensis</i>	P3	630 [REDACTED]	6753 [REDACTED]	DC68	5
717	TPH2	<i>Dicrastylis cundeeleensis</i>	P3	633 [REDACTED]	6745 [REDACTED]	DC71	5
717	TPH2	<i>Dicrastylis cundeeleensis</i>	P3	635 [REDACTED]	6753 [REDACTED]	DC69	10
717	TPH2	<i>Dicrastylis cundeeleensis</i>	P3	640 [REDACTED]	6744 [REDACTED]	DC72	10
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	641 [REDACTED]	6755 [REDACTED]	DC27	4
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	641 [REDACTED]	6755 [REDACTED]	DC28	2
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	641 [REDACTED]	6755 [REDACTED]	DC29	5

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	641	6755	DC30	13
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	641	6755	DC31	15
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	641	6755	DC16	1
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	641	6755	DC15	1
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	641	6755	DC14	1
717	TPH1	<i>Dicrastylis cundeeleensis</i>	P3	642	6752	DC73	10
717	TPH1	<i>Dicrastylis cundeeleensis</i>	P3	642	6752	DC74	5
717	TPH1	<i>Dicrastylis cundeeleensis</i>	P3	642	6751	DC75	20
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	643	6752	DC25	4
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	643	6752	DC24	2
717	TPH2	<i>Dicrastylis cundeeleensis</i>	P3	643	6753	DC70	10
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	643	6752	DC23	7
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	643	6752	DC26	5
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	644	6751	DC7	38
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	644	6751	DC6	33
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	644	6751	DC5	8
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	644	6752	DC4	5
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	644	6752	DC2	13
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	644	6752	DC17	20
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	644	6752	DC3	1
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	644	6752	DC11	22
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	644	6752	DC10	2
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	644	6752	DC8	2
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	644	6752	DC9	2
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	645	6754	DC33	10
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	645	6754	DC32	3
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	646	6753	DC13	2
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	646	6753	DC12	2
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	646	6770	DC55	74
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	646	6754	DC1	2

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Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
717	TPH2	<i>Dicrastylis cundeeleensis</i>	P3	646	6764	DC76	10
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	646	6767	DC18	3
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	646	6770	DC54	240
717	TPH1	<i>Dicrastylis cundeeleensis</i>	P3	646	6754	DC77	5
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	646	6769	DC64	252
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	647	6767	DC22	2
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	647	6767	DC21	2
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	647	6770	DC62	137
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	647	6770	DC61	225
717	TPH1	<i>Dicrastylis cundeeleensis</i>	P3	647	6757	DC78	10
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	647	6754	DC19	1
717	TPH1	<i>Dicrastylis cundeeleensis</i>	P3	647	6756	DC79	10
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	647	6768	DC35	5
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	647	6768	DC36	12
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	647	6768	DC37	2
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	648	6768	DC38	2
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	648	6754	DC20	2
717	TPH1	<i>Dicrastylis cundeeleensis</i>	P3	649	6762	DC80	5
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	650	6763	DC56	1
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651	6762	DC60	60
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651	6762	DC50	6
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651	6763	DC51	9
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651	6761	DC52	131
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651	6762	DC58	429
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651	6762	DC49	16
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651	6761	DC63	1000
717	TPH1	<i>Dicrastylis cundeeleensis</i>	P3	651	6763	DC81	5
717	TPH2	<i>Dicrastylis cundeeleensis</i>	P3	651	6763	DC82	5
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651	6762	DC48	35
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651	6762	DC46	23

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Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651 [REDACTED]	6762 [REDACTED]	DC47	53
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651 [REDACTED]	6762 [REDACTED]	DC44	1
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651 [REDACTED]	6762 [REDACTED]	DC45	26
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651 [REDACTED]	6761 [REDACTED]	DC53	6
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651 [REDACTED]	6763 [REDACTED]	DC39	104
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651 [REDACTED]	6762 [REDACTED]	DC43	2
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651 [REDACTED]	6761 [REDACTED]	DC65	616
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651 [REDACTED]	6763 [REDACTED]	DC59	1000
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651 [REDACTED]	6762 [REDACTED]	DC57	800
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651 [REDACTED]	6762 [REDACTED]	DC42	680
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	651 [REDACTED]	6763 [REDACTED]	DC40	13
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	652 [REDACTED]	6763 [REDACTED]	DC41	1
1/11/08	TRF3	<i>Dicrastylis cundeeleensis</i>	P3	653 [REDACTED]	6769 [REDACTED]	DC34	5
							6366
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	630 [REDACTED]	6746 [REDACTED]	DN368	10
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	630 [REDACTED]	6746 [REDACTED]	DN369	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	631 [REDACTED]	6747 [REDACTED]	DN446	20
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	631 [REDACTED]	6747 [REDACTED]	DN445	20
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	631 [REDACTED]	6747 [REDACTED]	DN444	20
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	632 [REDACTED]	6753 [REDACTED]	DN381	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	641 [REDACTED]	6754 [REDACTED]	DN160	9
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	641 [REDACTED]	6754 [REDACTED]	DN161	8
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	641 [REDACTED]	6754 [REDACTED]	DN162	15
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	641 [REDACTED]	6754 [REDACTED]	DN163	1
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	641 [REDACTED]	6755 [REDACTED]	DN168	2
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	641 [REDACTED]	6755 [REDACTED]	DN169	8
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	641 [REDACTED]	6755 [REDACTED]	DN170	12
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	641 [REDACTED]	6755 [REDACTED]	DN171	6
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	641 [REDACTED]	6755 [REDACTED]	DN172	2

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	641	6754	DN159	3
717	TPH1	<i>Dicrastylis nicholasii</i>	P2	642	6751	DN385	20
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	642	6751	DN386	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	642	6755	DN203	10
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	642	6744	DN382	50
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	643	6747	DN370	5
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	643	6746	DN387	5
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	643	6754	DN164	4
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	643	6754	DN165	18
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	643	6754	DN166	16
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	643	6762	DN1	1
717	TPH1	<i>Dicrastylis nicholasii</i>	P2	643	6753	DN388	10
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	643	6762	DN2	1
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	643	6753	DN185	12
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	643	6753	DN184	11
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	643	6753	DN183	8
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6752	DN186	21
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6752	DN187	2
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN182	5
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN181	10
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	644	6762	DN3	2
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN188	3
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	644	6763	DN9	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN139	1
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6752	DN173	40
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN137	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6752	DN140	1
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN135	4
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN134	8
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN138	15

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN136	2
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN132	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN133	5
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN131	29
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN130	8
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6754	DN167	15
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN179	1
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	644	6763	DN8	30
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN157	37
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN158	40
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6758	DN324	50
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	644	6763	DN7	30
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6757	DN309	7
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6757	DN260	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6757	DN310	13
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN174	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN155	26
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN154	12
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN156	19
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN153	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN151	9
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6752	DN144	2
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN152	11
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN148	4
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN147	13
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN149	15
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN146	7
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN145	14
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN150	25
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6752	DN143	1

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6751	DN142	2
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6751	DN141	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6757	DN311	9
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	644	6764	DN17	5
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6757	DN259	40
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6757	DN340	30
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6757	DN341	30
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6757	DN258	15
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6757	DN312	12
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN194	1
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	644	6763	DN6	50
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6758	DN339	7
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6757	DN313	2
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6758	DN253	25
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6757	DN257	8
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	644	6764	DN16	100
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN195	5
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6758	DN254	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	644	6753	DN196	5
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6758	DN307	46
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6757	DN314	12
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6753	DN199	12
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6753	DN200	15
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6753	DN198	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6753	DN197	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6758	DN252	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6758	DN305	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6758	DN304	30
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6757	DN303	11
717	TPH1	<i>Dicrastylis nicholasii</i>	P2	645	6756	DN389	5

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6754	DN178	100
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6757	DN301	2
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6760	DN336	3
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	645	6764	DN26	4
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6760	DN335	2
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	645	6765	DN44	40
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	645	6745	DN383	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6757	DN300	6
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6756	DN329	160
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	645	6764	DN18	20
717	TPH1	<i>Dicrastylis nicholasii</i>	P2	645	6756	DN390	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6757	DN299	6
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	645	6764	DN15	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6757	DN298	12
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6758	DN322	200
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	645	6750	DN371	5
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6757	DN295	50
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6756	DN262	2
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6757	DN296	15
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6757	DN293	1
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6756	DN261	5
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	645	6764	DN19	15
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6755	DN267	10
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	645	6765	DN35	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6758	DN291	1
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	645	6766	DN75	2
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	645	6757	DN384	200
717	TPH1	<i>Dicrastylis nicholasii</i>	P2	645	6757	DN391	5
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	645	6757	DN392	5
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	645	6766	DN88	50

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	645	6765	DN36	50
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6756	DN328	105
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6755	DN333	25
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	645	6766	DN89	100
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6753	DN177	3
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	645	6763	DN5	50
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6757	DN221	90
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6758	DN338	100
717	TPH1	<i>Dicrastylis nicholasii</i>	P2	645	6759	DN397	40
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6753	DN207	32
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	645	6770	DN355	70
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	645	6766	DN66	25
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	645	6765	DN43	7
717	TPH1	<i>Dicrastylis nicholasii</i>	P2	645	6754	DN398	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6753	DN206	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6754	DN201	6
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN113	20
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6770	DN533	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6754	DN180	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6757	DN222	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6756	DN284	30
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6771	DN361	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6753	DN205	13
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6757	DN223	200
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6757	DN224	110
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6753	DN204	20
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6763	DN4	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6757	DN226	62
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN54	2
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN34	20

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6757	DN346	29
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6754	DN202	3
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN87	60
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN114	7
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6764	DN14	40
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN74	3
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN53	4
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6755	DN280	8
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6753	DN193	1
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN33	120
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6770	DN225	1
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN115	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6770	DN511	20
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6770	DN407	1
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6756	DN274	21
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN90	12
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN86	40
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN98	16
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN62	25
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN116	30
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN503	100
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN414	10
39356	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN97	4
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6770	DN406	1
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6771	DN449	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6770	DN348	26
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN117	100
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN42	2
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6757	DN228	1
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6770	DN547	20

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Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6770	DN513	50
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6757	DN229	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6758	DN218	3
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6770	DN517	50
39356	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN73	11
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6770	DN499	1
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6759	DN302	141
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN67	13
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN32	100
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6759	DN306	254
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6757	DN230	4
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN118	70
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6770	DN409	5
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN31	50
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN76	4
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN41	15
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6770	DN232	183
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6764	DN13	30
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6764	DN24	20
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6770	DN450	20
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN85	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6757	DN347	1
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6764	DN25	50
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6770	DN403	30
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6770	DN529	5
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN99	35
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN91	13
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN119	100
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	646	6759	DN297	135
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN120	20

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6770	DN408	5
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN63	10
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN96	5
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	646	6771	DN509	1
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6765	DN52	50
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN72	10
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	646	6766	DN84	13
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN30	100
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6759	DN308	97
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN68	16
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6764	DN10	11
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN100	27
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6771	DN402	5
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN51	10
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN40	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6770	DN345	460
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6770	DN519	20
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6770	DN515	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6771	DN343	429
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN71	40
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6771	DN401	5
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6759	DN294	248
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6764	DN23	50
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN39	30
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN213	1
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN83	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6771	DN400	5
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN50	20
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN82	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN233	12

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN121	70
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN212	6
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN81	100
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN211	7
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN80	40
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6771	DN545	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN349	100
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN70	13
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN210	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6770	DN521	50
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN61	15
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN79	7
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN69	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6770	DN319	200
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6770	DN321	509
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN78	30
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN29	50
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN122	50
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN234	5
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN95	12
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN64	200
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6770	DN527	50
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN49	70
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6767	DN413	5
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN356	13
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN60	150
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6758	DN344	1
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN235	41
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6770	DN531	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6771	DN399	5

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN38	50
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN28	50
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6770	DN404	10
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN48	20
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN65	50
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN354	12
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN350	7
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN37	30
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6770	DN549	50
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6767	DN209	17
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN27	80
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN77	50
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN59	5
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6764	DN11	40
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6767	DN208	16
965	WRC	<i>Dicrastylis nicholasii</i>	P2	647	6781	DN636	10
965	WRC	<i>Dicrastylis nicholasii</i>	P2	647	6781	DN638	0
965	WRC	<i>Dicrastylis nicholasii</i>	P2	647	6781	DN646	0
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN236	21
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6770	DN351	50
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN47	3
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6770	DN523	10
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN94	15
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6771	DN507	1
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN92	10
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6764	DN12	20
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN58	15
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN352	38
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6764	DN22	100
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN353	100

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Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN112	15
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN331	100
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN123	50
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN237	150
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6764	DN21	30
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN93	20
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN46	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN242	15
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN57	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN241	35
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6771	DN366	40
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6766	DN111	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN238	82
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6771	DN357	12
965	WRC	<i>Dicrastylis nicholasii</i>	P2	647	6781	DN643	10
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	647	6765	DN45	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6771	DN358	32
965	WRC	<i>Dicrastylis nicholasii</i>	P2	647	6780	DN642	0
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6771	DN359	112
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN239	17
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6771	DN405	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6771	DN360	24
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6757	DN240	54
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	647	6759	DN285	4
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	647	6771	DN543	20
965	WRC	<i>Dicrastylis nicholasii</i>	P2	648	6780	DN639	10
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	648	6764	DN20	5
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	648	6766	DN101	20
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	648	6765	DN56	50
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	648	6770	DN525	10

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Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	648	6765	DN55	20
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	648	6770	DN451	10
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	648	6766	DN102	15
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	648	6770	DN227	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	648	6770	DN367	4
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	648	6764	DN325	32
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	648	6770	DN231	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	648	6764	DN255	5
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	648	6764	DN256	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	648	6764	DN326	12
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	648	6764	DN327	176
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	648	6759	DN292	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	648	6758	DN290	2
689	TRPS	<i>Dicrastylis nicholasii</i>	P2	648	6763	DN395	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	649	6769	DN535	5
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	649	6764	DN323	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	649	6770	DN317	387
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	649	6770	DN316	1
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	649	6769	DN214	2
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	649	6770	DN537	20
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	649	6761	DN376	29
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	649	6769	DN215	3
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	649	6770	DN412	5
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	649	6769	DN216	7
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	649	6769	DN217	1
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	649	6769	DN330	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	649	6765	DN315	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	649	6769	DN332	470
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	649	6769	DN219	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	649	6769	DN334	43

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Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	649	6758	DN287	18
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	649	6758	DN288	4
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	649	6759	DN286	7
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	649	6758	DN289	7
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	649	6755	DN377	75
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	649	6769	DN410	5
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	649	6770	DN411	20
965	WRC	<i>Dicrastylis nicholasii</i>	P2	649	6767	DN627	20
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	649	6767	DN541	20
965	WRC	<i>Dicrastylis nicholasii</i>	P2	650	6767	DN625	20
965	WRC	<i>Dicrastylis nicholasii</i>	P2	650	6767	DN609	20
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	650	6767	DN448	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6759	DN283	7
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6769	DN220	1
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6759	DN282	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6769	DN337	106
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6758	DN281	2
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN462	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN464	5
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN463	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN460	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN461	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN458	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN459	10
689	TRPS	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN396	2
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN417	7
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN454	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN453	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN455	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN456	10

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Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN457	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN318	5
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN452	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6758	DN279	102
965	WRC	<i>Dicrastylis nicholasii</i>	P2	650	6768	DN607	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6758	DN278	23
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6758	DN277	21
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6758	DN276	42
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6763	DN342	10
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	650	6764	DN374	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6767	DN363	14
965	WRC	<i>Dicrastylis nicholasii</i>	P2	650	6776	DN610	5
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	650	6769	DN539	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6758	DN273	13
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6758	DN271	23
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6758	DN270	7
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6758	DN269	35
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6762	DN251	111
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6758	DN268	5
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6767	DN362	39
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6759	DN263	44
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6759	DN264	7
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6759	DN265	18
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN320	3
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6759	DN266	50
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	650	6762	DN104	5
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6763	DN245	1280
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN364	4
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	650	6762	DN110	20
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	650	6765	DN365	5

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Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
965	WRC	<i>Dicrastylis nicholasii</i>	P2	650	6773	DN616	50
965	WRC	<i>Dicrastylis nicholasii</i>	P2	651	6773	DN635	10
965	WRC	<i>Dicrastylis nicholasii</i>	P2	651	6769	DN634	0
965	WRC	<i>Dicrastylis nicholasii</i>	P2	651	6769	DN630	20
965	WRC	<i>Dicrastylis nicholasii</i>	P2	651	6769	DN628	5
965	WRC	<i>Dicrastylis nicholasii</i>	P2	651	6769	DN632	50
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN551	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN467	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN473	5
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN432	20
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN421	10
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	651	6773	DN380	30
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN474	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN553	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN470	5
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN447	5
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	651	6760	DN272	14
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	651	6762	DN109	50
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	651	6760	DN275	100
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN485	1
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN475	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6762	DN476	10
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN483	6
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN472	20
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN435	30
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN426	1
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN495	1
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	651	6763	DN372	20
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN481	1
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN438	3

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN440	50
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN498	5
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6761	DN443	1
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6762	DN480	2
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6762	DN477	2
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6762	DN478	2
844	TRF2	<i>Dicrastylis nicholasii</i>	P2	651	6762	DN479	2
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	652	6756	DN373	1
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6764	DN243	11
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6769	DN129	5
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6769	DN128	17
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6769	DN176	30
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6763	DN244	6
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6769	DN127	2
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6769	DN175	21
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6769	DN189	21
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6769	DN126	16
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6769	DN192	86
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6769	DN191	2
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6763	DN250	18
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6763	DN249	33
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6769	DN190	13
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6763	DN248	30
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	654	6769	DN378	100
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6769	DN124	12
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6769	DN125	6
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6763	DN247	10
1/11/08	TRF3	<i>Dicrastylis nicholasii</i>	P2	654	6763	DN246	20
829	CHRAR	<i>Dicrastylis nicholasii</i>	P2	655	6751	DN606	20
829	CHRAR	<i>Dicrastylis nicholasii</i>	P2	655	6750	DN604	1000

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
829	CHRAR	<i>Dicrastylis nicholasii</i>	P2	655 [REDACTED]	6750 [REDACTED]	DN603	5
829	CHRAR	<i>Dicrastylis nicholasii</i>	P2	656 [REDACTED]	6744 [REDACTED]	DN602	10
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	658 [REDACTED]	6758 [REDACTED]	DN375	10
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	663 [REDACTED]	6773 [REDACTED]	DN103	50
717	TPH2	<i>Dicrastylis nicholasii</i>	P2	664 [REDACTED]	6774 [REDACTED]	DN379	200
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	665 [REDACTED]	6774 [REDACTED]	DN105	20
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	665 [REDACTED]	6774 [REDACTED]	DN106	100
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	665 [REDACTED]	6774 [REDACTED]	DN107	100
1/10/07	TRF1	<i>Dicrastylis nicholasii</i>	P2	665 [REDACTED]	6774 [REDACTED]	DN108	100
							17726
717	TPH2	<i>Grevillea secunda</i>	P2	640 [REDACTED]	6744 [REDACTED]	GS12	5
717	TPH2	<i>Grevillea secunda</i>	P2	640 [REDACTED]	6744 [REDACTED]	GS13	3
717	TPH1	<i>Grevillea secunda</i>	P2	651 [REDACTED]	6763 [REDACTED]	GS5	5
							13
717	TPH2	<i>Lepidobolus deserti</i>	P4	634 [REDACTED]	6751 [REDACTED]	LD183	5
717	TPH2	<i>Lepidobolus deserti</i>	P4	635 [REDACTED]	6753 [REDACTED]	LD198	5
717	TPH2	<i>Lepidobolus deserti</i>	P4	635 [REDACTED]	6753 [REDACTED]	LD184	5
717	TPH2	<i>Lepidobolus deserti</i>	P4	636 [REDACTED]	6751 [REDACTED]	LD197	1
717	TPH2	<i>Lepidobolus deserti</i>	P4	640 [REDACTED]	6749 [REDACTED]	LD202	60
717	TPH2	<i>Lepidobolus deserti</i>	P4	641 [REDACTED]	6764 [REDACTED]	LD199	15
1/11/08	TRF3	<i>Lepidobolus deserti</i>	P4	641 [REDACTED]	6754 [REDACTED]	LD159	1
717	TPH2	<i>Lepidobolus deserti</i>	P4	641 [REDACTED]	6743 [REDACTED]	LD185	5
717	TPH1	<i>Lepidobolus deserti</i>	P4	642 [REDACTED]	6751 [REDACTED]	LD186	5
717	TPH2	<i>Lepidobolus deserti</i>	P4	642 [REDACTED]	6751 [REDACTED]	LD203	1
717	TPH2	<i>Lepidobolus deserti</i>	P4	642 [REDACTED]	6744 [REDACTED]	LD204	2
717	TPH2	<i>Lepidobolus deserti</i>	P4	643 [REDACTED]	6749 [REDACTED]	LD205	100
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	643 [REDACTED]	6764 [REDACTED]	LD17	10
1/11/08	TRF3	<i>Lepidobolus deserti</i>	P4	644 [REDACTED]	6751 [REDACTED]	LD153	12

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
717	TPH2	<i>Lepidobolus deserti</i>	P4	644	6755	LD195	5
1/11/08	TRF3	<i>Lepidobolus deserti</i>	P4	644	6751	LD154	86
1/11/08	TRF3	<i>Lepidobolus deserti</i>	P4	644	6751	LD155	36
1/11/08	TRF3	<i>Lepidobolus deserti</i>	P4	644	6751	LD156	18
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	644	6763	LD11	50
1/11/08	TRF3	<i>Lepidobolus deserti</i>	P4	644	6751	LD157	1
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	644	6764	LD18	3
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	644	6763	LD9	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	645	6763	LD10	10
717	TPH2	<i>Lepidobolus deserti</i>	P4	645	6745	LD196	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	645	6764	LD23	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	645	6762	LD1	30
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	645	6764	LD16	20
717	TPH2	<i>Lepidobolus deserti</i>	P4	645	6750	LD187	5
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	645	6762	LD2	100
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	645	6764	LD19	2
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	645	6763	LD8	200
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	645	6763	LD12	4
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	645	6762	LD5	2000
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	645	6765	LD30	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	645	6766	LD69	4
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	645	6766	LD70	1
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	645	6766	LD125	15
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	645	6766	LD99	15
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6762	LD7	50
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6762	LD3	50
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6764	LD22	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD55	2
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6762	LD4	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD71	8

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD68	15
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD56	1
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD57	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6765	LD29	50
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6765	LD40	2
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD67	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6765	LD39	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD58	16
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD66	8
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD59	6
717	TPH2	<i>Lepidobolus deserti</i>	P4	646	6764	LD206	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD65	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6765	LD38	15
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD79	30
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6765	LD41	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD72	15
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6765	LD32	2
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD60	7
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6765	LD48	6
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6765	LD42	30
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD100	25
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD126	25
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD127	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6764	LD13	7
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD78	40
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD102	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD128	21
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6765	LD37	6
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD64	6
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD124	10

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Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD98	5
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	646	6766	LD80	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD31	20
717	TPH1	<i>Lepidobolus deserti</i>	P4	647	6764	LD188	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD54	1
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD53	4
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD36	2
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD52	1
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD103	21
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD129	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD63	12
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD104	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD130	15
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD28	100
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD47	3
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD81	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD105	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD131	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD123	15
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD97	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD61	4
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD146	30
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6767	LD152	1
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6767	LD147	50
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD62	6
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD77	16
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD106	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD132	25
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6764	LD21	50
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD82	20

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Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD121	30
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD95	30
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD122	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD96	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD94	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD76	31
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD43	15
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6767	LD145	15
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD133	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD108	15
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD134	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD75	25
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6767	LD151	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD27	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD144	30
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6767	LD148	30
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD35	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD109	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD135	4
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD34	12
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD136	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD120	35
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD119	150
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD26	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD25	2
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD93	15
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD91	130
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD51	15
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD143	50
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6764	LD14	14

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD150	1
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD111	25
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD137	15
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD33	3
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD44	4
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD83	15
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD112	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD138	2
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD74	50
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD142	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD84	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD50	6
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD141	13
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6764	LD15	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD118	40
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD117	5
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD149	4
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD49	7
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD46	4
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD116	10
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD140	30
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6765	LD45	5
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD115	20
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD89	45
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD113	2
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD73	30
717	TPH2	<i>Lepidobolus deserti</i>	P4	647	6744	LD189	5
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD139	50
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD114	100
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD87	50

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD88	60
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD85	3
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	647	6766	LD86	1
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	648	6764	LD20	2
689	TRPS	<i>Lepidobolus deserti</i>	P4	648	6764	LD201	25
1/10/07	TRF1	<i>Lepidobolus deserti</i>	P4	648	6765	LD24	4
520	DRF	<i>Lepidobolus deserti</i>	P4	648	6756	LD200	100
1/11/08	TRF3	<i>Lepidobolus deserti</i>	P4	648	6754	LD158	100
							5740
1/11/08	TRF3	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	641	6754	MOB6	1
1/11/08	TRF3	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	641	6754	MOB5	2
1/11/08	TRF3	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	642	6754	MOB4	3
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	643	6763	MOB16	15
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	643	6763	MOB15	80
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	643	6763	MOB13	10
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	643	6763	MOB12	15
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	643	6763	MOB7	50
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	644	6763	MOB8	30
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	644	6763	MOB9	50
1/11/08	TRF3	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	644	6751	MOB1	1
1/11/08	TRF3	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	644	6751	MOB2	3
1/11/08	TRF3	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	644	6751	MOB3	11
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	644	6763	MOB10	1
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	644	6763	MOB11	20
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	644	6763	MOB17	3
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	645	6765	MOB24	29
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	645	6766	MOB28	7
717	TPH2	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	645	6745	MOB33	5
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	645	6765	MOB22	29

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	645 [REDACTED]	6766 [REDACTED]	MOB27	2
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	645 [REDACTED]	6766 [REDACTED]	MOB29	1
717	TPH2	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	645 [REDACTED]	6750 [REDACTED]	MOB34	15
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	645 [REDACTED]	6763 [REDACTED]	MOB21	7
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	645 [REDACTED]	6766 [REDACTED]	MOB30	17
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	645 [REDACTED]	6763 [REDACTED]	MOB18	1
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	645 [REDACTED]	6763 [REDACTED]	MOB19	12
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	646 [REDACTED]	6763 [REDACTED]	MOB20	10
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	646 [REDACTED]	6765 [REDACTED]	MOB26	1
1/10/07	TRF1	<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)	P2	646 [REDACTED]	6765 [REDACTED]	MOB25	10
							441
717	TPH2	<i>Microcorys macredieana</i>	P3	634 [REDACTED]	6751 [REDACTED]	MM59	5
717	TPH2	<i>Microcorys macredieana</i>	P3	635 [REDACTED]	6753 [REDACTED]	MM60	5
717	TPH2	<i>Microcorys macredieana</i>	P3	640 [REDACTED]	6744 [REDACTED]	MM61	20
717	TPH2	<i>Microcorys macredieana</i>	P3	640 [REDACTED]	6744 [REDACTED]	MM57	30
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	641 [REDACTED]	6754 [REDACTED]	MM47	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	641 [REDACTED]	6754 [REDACTED]	MM46	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	641 [REDACTED]	6754 [REDACTED]	MM44	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	641 [REDACTED]	6754 [REDACTED]	MM45	1
717	TPH2	<i>Microcorys macredieana</i>	P3	642 [REDACTED]	6744 [REDACTED]	MM62	1
717	TPH2	<i>Microcorys macredieana</i>	P3	642 [REDACTED]	6764 [REDACTED]	MM68	50
717	TPH2	<i>Microcorys macredieana</i>	P3	642 [REDACTED]	6744 [REDACTED]	MM63	20
1/10/07	TRF1	<i>Microcorys macredieana</i>	P3	643 [REDACTED]	6763 [REDACTED]	MM49	40
717	TPH2	<i>Microcorys macredieana</i>	P3	644 [REDACTED]	6763 [REDACTED]	MM67	5
1/10/07	TRF1	<i>Microcorys macredieana</i>	P3	644 [REDACTED]	6763 [REDACTED]	MM50	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	644 [REDACTED]	6751 [REDACTED]	MM33	2
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	644 [REDACTED]	6751 [REDACTED]	MM36	2
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	644 [REDACTED]	6751 [REDACTED]	MM34	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	644 [REDACTED]	6751 [REDACTED]	MM37	1

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	644	6751	MM35	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	644	6751	MM38	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	644	6751	MM39	2
1/10/07	TRF1	<i>Microcorys macredieana</i>	P3	644	6763	MM51	5
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	644	6751	MM40	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	644	6751	MM41	13
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	644	6751	MM42	13
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	644	6751	MM43	16
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	645	6760	MM29	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	645	6760	MM28	3
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	645	6760	MM17	8
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	645	6758	MM9	10
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	645	6760	MM16	2
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	645	6760	MM15	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	645	6760	MM27	7
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	645	6760	MM26	5
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	645	6760	MM25	3
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	645	6760	MM24	2
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	645	6758	MM21	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	645	6758	MM22	6
717	TPH2	<i>Microcorys macredieana</i>	P3	645	6745	MM64	20
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	645	6758	MM8	2
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	645	6759	MM14	5
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	645	6759	MM13	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	646	6759	MM12	4
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	646	6761	MM2	2
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	646	6761	MM32	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	646	6761	MM1	3
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	646	6759	MM11	22
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	646	6759	MM18	4

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	646	6759	MM10	18
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	646	6759	MM30	396
1/10/07	TRF1	<i>Microcorys macredieana</i>	P3	646	6764	MM52	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	646	6759	MM31	192
717	TPH2	<i>Microcorys macredieana</i>	P3	646	6759	MM65	20
1/10/07	TRF1	<i>Microcorys macredieana</i>	P3	647	6765	MM55	5
1/10/07	TRF1	<i>Microcorys macredieana</i>	P3	647	6765	MM56	2
1/10/07	TRF1	<i>Microcorys macredieana</i>	P3	647	6765	MM54	5
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	647	6757	MM19	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	647	6757	MM20	16
1/10/07	TRF1	<i>Microcorys macredieana</i>	P3	647	6765	MM53	6
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	647	6757	MM23	50
717	TPH1	<i>Microcorys macredieana</i>	P3	649	6760	MM66	20
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	649	6762	MM3	7
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	649	6762	MM4	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	649	6762	MM5	1
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	649	6762	MM6	32
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	649	6762	MM7	4
1/11/08	TRF3	<i>Microcorys macredieana</i>	P3	654	6769	MM48	45
829	CHRAR	<i>Microcorys macredieana</i>	P3	654	6756	MM104	10
829	CHRAR	<i>Microcorys macredieana</i>	P3	656	6746	MM104	10
829	CHRAR	<i>Microcorys macredieana</i>	P3	656	6745	MM104	10
							1204
717	TPH2	<i>Micromyrtus stenocalyx</i>	P3	645	6745	MS217	5
717	TPH2	<i>Micromyrtus stenocalyx</i>	P3	648	6746	MS218	18
717	TPH2	<i>Micromyrtus stenocalyx</i>	P3	645	6750	MS199	5
717	TPH2	<i>Micromyrtus stenocalyx</i>	P3	645	6750	MS206	10
717	TPH2	<i>Micromyrtus stenocalyx</i>	P3	636	6751	MS219	1
717	TPH2	<i>Micromyrtus stenocalyx</i>	P3	635	6753	MS222	1

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	645	6753	MS186	20
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	646	6753	MS185	10
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	646	6754	MS179	4
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	646	6754	MS180	35
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	646	6754	MS181	3
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	646	6754	MS182	1
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	646	6754	MS183	3
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6754	MS184	1
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6754	MS154	7
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6754	MS177	1
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6754	MS176	3
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS175	4
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS126	1
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS125	2
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS124	1
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS123	5
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS122	12
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS173	22
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS121	3
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS120	3
717	TPH1	<i>Micromyrtus stenocalyx</i>	P3	648	6755	MS201	20
717	TPH1	<i>Micromyrtus stenocalyx</i>	P3	648	6755	MS202	20
717	TPH2	<i>Micromyrtus stenocalyx</i>	P3	648	6755	MS203	30
717	TPH2	<i>Micromyrtus stenocalyx</i>	P3	648	6755	MS204	20
717	TPH1	<i>Micromyrtus stenocalyx</i>	P3	648	6755	MS208	20
717	TPH1	<i>Micromyrtus stenocalyx</i>	P3	648	6755	MS209	20
717	TPH2	<i>Micromyrtus stenocalyx</i>	P3	648	6755	MS210	30
717	TPH2	<i>Micromyrtus stenocalyx</i>	P3	648	6755	MS211	20
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS156	4
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS166	49

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS168	150
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS165	41
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS155	30
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS167	120
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS169	100
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS170	200
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS171	15
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS172	5
520	DRF	<i>Micromyrtus stenocalyx</i>	P3	647	6755	MS220	50
520	DRF	<i>Micromyrtus stenocalyx</i>	P3	647	6756	MS221	100
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS158	12
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS159	24
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS161	41
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS160	10
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS162	15
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS157	10
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS163	22
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS164	12
717	TPH1	<i>Micromyrtus stenocalyx</i>	P3	647	6757	MS200	5
717	TPH1	<i>Micromyrtus stenocalyx</i>	P3	647	6757	MS207	10
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS153	20
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS150	3
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS152	3
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6757	MS149	4
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6757	MS148	40
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS151	1
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6757	MS146	71
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6757	MS145	8
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6757	MS147	5
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6757	MS144	5

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6757	MS143	2
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6757	MS142	1
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6757	MS141	2
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6757	MS178	19
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	647	6757	MS174	8
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	644	6757	MS105	2
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	644	6757	MS104	2
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	649	6757	MS106	3
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS110	5
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS111	3
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS109	12
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS108	14
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS112	16
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	649	6757	MS107	10
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS113	16
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS114	1
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS115	5
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS116	14
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS119	11
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS117	34
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6757	MS118	20
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	649	6758	MS135	7
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	649	6758	MS137	2
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	649	6758	MS136	3
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	649	6758	MS138	2
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6758	MS139	5
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	648	6758	MS140	20
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	650	6762	MS134	4
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	649	6762	MS133	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	650	6762	MS87	3

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	649	6762	MS132	2
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	649	6762	MS131	2
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	651	6762	MS88	1
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	649	6762	MS130	5
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	649	6762	MS129	7
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	649	6762	MS86	4
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	649	6762	MS83	13
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	649	6762	MS128	40
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	649	6762	MS85	1
1/10/07	TRF1	<i>Micromyrtus stenocalyx</i>	P3	649	6762	MS127	4
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	643	6762	MS1	3
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	643	6762	MS5	8
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	643	6762	MS4	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	643	6762	MS2	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	643	6762	MS3	7
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6762	MS14	2
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6762	MS13	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6762	MS12	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6762	MS11	2
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6762	MS8	5
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6762	MS10	15
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6762	MS9	25
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6762	MS7	4
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6762	MS6	3
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	643	6763	MS22	20
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6763	MS28	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	643	6763	MS16	50
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	643	6763	MS19	100
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	643	6763	MS20	200
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	643	6763	MS15	20

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
717	TPH1	<i>Micromyrtus stenocalyx</i>	P3	646	6763	MS205	10
717	TPH1	<i>Micromyrtus stenocalyx</i>	P3	646	6763	MS212	10
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6763	MS26	50
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6763	MS23	100
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	643	6763	MS18	100
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6763	MS24	100
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6763	MS27	50
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6763	MS29	6
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6763	MS25	50
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6763	MS30	4
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6763	MS32	3
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6763	MS31	3
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	647	6763	MS33	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	647	6764	MS34	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	647	6764	MS56	9
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6764	MS35	4
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6764	MS36	5
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	648	6764	MS55	4
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6764	MS37	5
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6764	MS39	7
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6764	MS38	3
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6764	MS40	6
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6764	MS54	15
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6764	MS49	3
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	643	6764	MS41	5
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6764	MS48	15
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6764	MS53	17
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6764	MS47	2
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6764	MS46	2
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6764	MS45	1

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6764	MS52	3
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6764	MS51	19
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6764	MS50	7
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6764	MS43	5
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6764	MS42	2
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	644	6764	MS44	3
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6764	MS57	9
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6764	MS59	19
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6764	MS58	7
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6764	MS60	21
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6765	MS61	46
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6766	MS63	2
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6766	MS62	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6766	MS64	6
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6766	MS65	7
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6766	MS68	5
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6766	MS66	18
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6766	MS67	10
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	647	6766	MS81	15
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6766	MS69	19
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6766	MS71	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6766	MS74	3
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6766	MS72	3
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6766	MS76	4
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	645	6766	MS73	2
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6766	MS75	6
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6766	MS77	2
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6766	MS78	35
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6766	MS79	20
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6766	MS80	1

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	647	6766	MS93	2
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	647	6766	MS92	4
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6766	MS97	11
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	647	6766	MS103	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	647	6766	MS100	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	647	6766	MS90	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6766	MS96	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	647	6766	MS89	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	647	6767	MS91	6
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6767	MS95	6
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6767	MS94	3
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	647	6767	MS99	5
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6767	MS98	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	646	6767	MS102	2
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	647	6767	MS101	1
1/11/08	TRF3	<i>Micromyrtus stenocalyx</i>	P3	663	6773	MS84	1
							3280
717	TPH2	<i>Olearia arida</i>	P2	631	6746	OA59	30
717	TPH2	<i>Olearia arida</i>	P2	640	6745	OA58	100
717	TPH2	<i>Olearia arida</i>	P2	641	6745	OA51	2
1/11/08	TRF3	<i>Olearia arida</i>	P2	641	6754	OA3	10
1/11/08	TRF3	<i>Olearia arida</i>	P2	642	6755	OA5	15
1/11/08	TRF3	<i>Olearia arida</i>	P2	642	6755	OA6	2
1/11/08	TRF3	<i>Olearia arida</i>	P2	642	6754	OA7	1
1/11/08	TRF3	<i>Olearia arida</i>	P2	642	6754	OA8	1
717	TPH2	<i>Olearia arida</i>	P2	643	6765	OA62	100
1/11/08	TRF3	<i>Olearia arida</i>	P2	644	6752	OA22	1
1/11/08	TRF3	<i>Olearia arida</i>	P2	644	6753	OA23	1
1/11/08	TRF3	<i>Olearia arida</i>	P2	644	6752	OA1	1

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Olearia arida</i>	P2	644	6757	OA37	1
1/11/08	TRF3	<i>Olearia arida</i>	P2	644	6751	OA2	4
1/11/08	TRF3	<i>Olearia arida</i>	P2	644	6757	OA27	1
717	TPH2	<i>Olearia arida</i>	P2	645	6766	OA61	50
1/11/08	TRF3	<i>Olearia arida</i>	P2	645	6755	OA28	2
1/11/08	TRF3	<i>Olearia arida</i>	P2	645	6755	OA29	10
1/11/08	TRF3	<i>Olearia arida</i>	P2	645	6756	OA30	10
1/11/08	TRF3	<i>Olearia arida</i>	P2	646	6755	OA31	3
1/11/08	TRF3	<i>Olearia arida</i>	P2	646	6755	OA36	3
1/11/08	TRF3	<i>Olearia arida</i>	P2	646	6753	OA4	1
1/11/08	TRF3	<i>Olearia arida</i>	P2	646	6753	OA9	1
1/11/08	TRF3	<i>Olearia arida</i>	P2	646	6753	OA11	1
1/11/08	TRF3	<i>Olearia arida</i>	P2	646	6767	OA14	20
1/11/08	TRF3	<i>Olearia arida</i>	P2	646	6767	OA13	50
1/11/08	TRF3	<i>Olearia arida</i>	P2	646	6753	OA15	10
1/11/08	TRF3	<i>Olearia arida</i>	P2	646	6767	OA21	1
844	TRF2	<i>Olearia arida</i>	P2	646	6766	OA86	2
965	WRC	<i>Olearia arida</i>	P2	646	6782	OA125	5
1/11/08	TRF3	<i>Olearia arida</i>	P2	646	6753	OA10	3
1/11/08	TRF3	<i>Olearia arida</i>	P2	646	6753	OA16	1
965	WRC	<i>Olearia arida</i>	P2	646	6782	OA152	18
965	WRC	<i>Olearia arida</i>	P2	646	6782	OA126	2
965	WRC	<i>Olearia arida</i>	P2	646	6782	OA153	10
965	WRC	<i>Olearia arida</i>	P2	646	6782	OA127	3
1/11/08	TRF3	<i>Olearia arida</i>	P2	646	6767	OA12	29
965	WRC	<i>Olearia arida</i>	P2	646	6782	OA128	25
1/11/08	TRF3	<i>Olearia arida</i>	P2	646	6767	OA20	2
965	WRC	<i>Olearia arida</i>	P2	646	6782	OA129	30
1/11/08	TRF3	<i>Olearia arida</i>	P2	646	6767	OA19	1
844	TRF2	<i>Olearia arida</i>	P2	646	6767	OA99	15

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
1/11/08	TRF3	<i>Olearia arida</i>	P2	646	6767	OA17	9
844	TRF2	<i>Olearia arida</i>	P2	646	6767	OA98	15
844	TRF2	<i>Olearia arida</i>	P2	646	6767	OA77	15
844	TRF2	<i>Olearia arida</i>	P2	646	6767	OA81	2
844	TRF2	<i>Olearia arida</i>	P2	646	6767	OA79	10
844	TRF2	<i>Olearia arida</i>	P2	646	6767	OA80	2
1/11/08	TRF3	<i>Olearia arida</i>	P2	646	6767	OA18	2
844	TRF2	<i>Olearia arida</i>	P2	647	6767	OA84	3
844	TRF2	<i>Olearia arida</i>	P2	647	6767	OA68	15
844	TRF2	<i>Olearia arida</i>	P2	647	6767	OA101	15
844	TRF2	<i>Olearia arida</i>	P2	647	6767	OA83	3
965	WRC	<i>Olearia arida</i>	P2	647	6781	OA163	5
844	TRF2	<i>Olearia arida</i>	P2	647	6767	OA82	10
844	TRF2	<i>Olearia arida</i>	P2	647	6767	OA67	11
844	TRF2	<i>Olearia arida</i>	P2	647	6767	OA100	11
965	WRC	<i>Olearia arida</i>	P2	647	6781	OA154	6
965	WRC	<i>Olearia arida</i>	P2	647	6781	OA130	5
1/10/07	TRF1	<i>Olearia arida</i>	P2	647	6765	OA39	2
844	TRF2	<i>Olearia arida</i>	P2	647	6767	OA69	20
844	TRF2	<i>Olearia arida</i>	P2	647	6767	OA85	2
844	TRF2	<i>Olearia arida</i>	P2	647	6767	OA102	20
717	TPH1	<i>Olearia arida</i>	P2	647	6764	OA56	2
717	TPH1	<i>Olearia arida</i>	P2	647	6764	OA57	2
717	TPH2	<i>Olearia arida</i>	P2	647	6767	OA52	5
1/10/07	TRF1	<i>Olearia arida</i>	P2	647	6765	OA38	2
717	TPH2	<i>Olearia arida</i>	P2	647	6765	OA60	2
844	TRF2	<i>Olearia arida</i>	P2	648	6762	OA74	30
1/11/08	TRF3	<i>Olearia arida</i>	P2	648	6762	OA35	12
1/11/08	TRF3	<i>Olearia arida</i>	P2	649	6762	OA25	2
717	TPH1	<i>Olearia arida</i>	P2	649	6759	OA53	5

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
717	TPH2	<i>Olearia arida</i>	P2	649 [REDACTED]	6759 [REDACTED]	OA54	2
689	TRPS	<i>Olearia arida</i>	P2	649 [REDACTED]	6763 [REDACTED]	OA65	5
689	TRPS	<i>Olearia arida</i>	P2	649 [REDACTED]	6763 [REDACTED]	OA66	5
1/11/08	TRF3	<i>Olearia arida</i>	P2	650 [REDACTED]	6763 [REDACTED]	OA26	1
520	DRF	<i>Olearia arida</i>	P2	650 [REDACTED]	6763 [REDACTED]	OA63	10
1/11/08	TRF3	<i>Olearia arida</i>	P2	650 [REDACTED]	6762 [REDACTED]	OA32	12
844	TRF2	<i>Olearia arida</i>	P2	650 [REDACTED]	6760 [REDACTED]	OA70	5
1/11/08	TRF3	<i>Olearia arida</i>	P2	650 [REDACTED]	6762 [REDACTED]	OA34	70
1/11/08	TRF3	<i>Olearia arida</i>	P2	650 [REDACTED]	6762 [REDACTED]	OA33	5
717	TPH2	<i>Olearia arida</i>	P2	651 [REDACTED]	6765 [REDACTED]	OA55	2
717	TPH1	<i>Olearia arida</i>	P2	651 [REDACTED]	6765 [REDACTED]	OA64	1
1/11/08	TRF3	<i>Olearia arida</i>	P2	651 [REDACTED]	6761 [REDACTED]	OA24	1
844	TRF2	<i>Olearia arida</i>	P2	652 [REDACTED]	6762 [REDACTED]	OA92	40
844	TRF2	<i>Olearia arida</i>	P2	652 [REDACTED]	6762 [REDACTED]	OA72	2
844	TRF2	<i>Olearia arida</i>	P2	652 [REDACTED]	6762 [REDACTED]	OA73	2
844	TRF2	<i>Olearia arida</i>	P2	652 [REDACTED]	6762 [REDACTED]	OA71	2
844	TRF2	<i>Olearia arida</i>	P2	652 [REDACTED]	6762 [REDACTED]	OA87	2
							990
717		<i>Acacia aff. sorophylla</i>	SOI	648 [REDACTED]	6743 [REDACTED]	AS01	20
717		<i>Acacia aff. sorophylla</i>	SOI	645 [REDACTED]	6745 [REDACTED]	AS02	10
717		<i>Acacia aff. sorophylla</i>	SOI	632 [REDACTED]	6753 [REDACTED]	AS03	20
717		<i>Acacia aff. sorophylla</i>	SOI	630 [REDACTED]	6753 [REDACTED]	AS04	20
717		<i>Acacia aff. sorophylla</i>	SOI	631 [REDACTED]	6746 [REDACTED]	AS05	10
717		<i>Acacia aff. sorophylla</i>	SOI	643 [REDACTED]	6746 [REDACTED]	AS06	5
717		<i>Acacia aff. sorophylla</i>	SOI	649 [REDACTED]	6748 [REDACTED]	AS07	10
717		<i>Acacia aff. sorophylla</i>	SOI	641 [REDACTED]	6743 [REDACTED]	AS08	10
717		<i>Acacia aff. sorophylla</i>	SOI	650 [REDACTED]	6746 [REDACTED]	AS09	10
717		<i>Acacia aff. sorophylla</i>	SOI	640 [REDACTED]	6764 [REDACTED]	AS10	20
717		<i>Acacia aff. sorophylla</i>	SOI	633 [REDACTED]	6745 [REDACTED]	AS11	10

Appendix D: Locations of DRF and Priority Flora

Proj_No	Trip	Species_ID	Cons_Stat u	Easting	Northing	ID	Estimated Numbers
717		<i>Acacia aff. sorophylla</i>	SOI	648 [REDACTED]	6755 [REDACTED]	AS12	10
							155



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Appendix E Explanation of Flora and Vegetation Conservation Codes



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Commonwealth EPBC Act

Schedule 1 of the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* contains a list of species that are considered Critically Endangered, Endangered, Vulnerable, Extinct, Extinct in the wild and Conservation Dependent.

Table D-1 Explanation of Codes for Flora under the Commonwealth EPBC Act

Conservation Category	Definition
Critically Endangered	The species is facing an extremely high risk of extinction in the wild in the immediate future.
Endangered	The species is likely to become extinct unless the circumstances and factors threatening its abundance, survival or evolutionary development cease to operate; or its numbers have been reduced to such a critical level, or its habitats have been so drastically reduced, that it is in immediate danger of extinction.
Vulnerable	Within the next 25 years, the species is likely to become endangered unless the circumstances and factors threatening its abundance, survival or evolutionary development cease to operate.
Extinct	A species is presumed extinct if it has not been located in the last 5 years, or it has not been located in the last 100years despite thorough searching.
Extinct in the wild	The species is only known to survive in cultivation, in captivity or as a naturalised population well outside its past range or it has not been recorded in its known and/or expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a timeframe appropriate to its life cycle and form.
Conservation Dependent	The species is the focus of a specific conservation program, the cessation of which would result in the species becoming vulnerable, endangered or critically endangered within a period of 5 years.



DEC Priority Flora

Species on the DEC Priority Flora List (DEC, 2007) include those removed from the Scheduled Flora List and other species known from only a few populations or in need of monitoring. Five Priority Codes are recognised.

Table D-2 Explanation of DEC Priority Flora Categories.

Priority Category	Definition
Priority One Taxa with few, poorly known populations on threatened lands.	Taxa which are known from few specimens or sight records from one or a few localities, on lands not managed for conservation, <i>e.g.</i> agricultural or pastoral lands, urban areas, active mineral leases. The taxon needs urgent survey and evaluation of conservation status before consideration can be given to declaration as threatened Flora.
Priority Two Taxa with few, poorly known populations on conservation lands.	Taxa which are known from few specimens or sight records from one or a few localities, on lands not under immediate threat of habitat destruction or degradation, <i>e.g.</i> national parks, conservation parks, nature reserves, State forest, vacant crown land, water reserves, etc. The taxon needs urgent survey and evaluation of conservation status before consideration can be given to declaration as threatened flora
Priority Three Taxa with several, poorly known populations, some on conservation lands.	Taxa which are known from few specimens or sight records from several localities, some of which are on lands not under immediate threat of habitat destruction or degradation. The taxon needs urgent survey and evaluation of conservation status before consideration can be given to declaration as threatened flora.
Priority Four Taxa in need of monitoring	Taxa which are considered to have been adequately surveyed, or for which sufficient knowledge is available, and which are considered not currently threatened or in need of special protection, but could if present circumstances change. These taxa are usually represented on conservation lands.
Priority Five Taxa in need of monitoring	Taxa which are not considered threatened but are subject to a specific conservation program, the cessation of which would result in the species becoming threatened within five years.



Definitions and Criteria for Priority Ecological Communities

Priority One

Ecological communities with apparently few, small occurrences, all or most not actively managed for conservation (E.g. within agricultural or pastoral lands, urban areas, active mineral leases) and for which current threats exist. Communities may be included if they are comparatively well-known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under immediate threat from known [Threatening Processes](#) across their range.

Priority Two

Communities that are known from few small occurrences, all or most of which are actively managed for conservation (e.g. within national parks, conservation parks, nature reserves, [State Forest](#), unallocated Crown land, water reserves, etc.) and not under imminent threat of destruction or degradation. Communities may be included if they are comparatively well known from one or more localities, but do not meet adequacy of survey requirements, and or are not well defined, and appear to be under threat from known threatening processes.

Priority Three

- i. Communities that are known from several to many occurrences, a significant number or area of which are not under threat of [Habitat](#) destruction or degradation or;
- ii. communities known from a few widespread occurrences, which are either large or within significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat, or;
- iii. communities made up of large, and/or widespread occurrences that may or may not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stock, and inappropriate fire regimes.

Communities may be included if they are comparatively well known from several localities, but do not meet adequacy of survey requirements and/or are not well defined, and known threatening processes exist that could affect them.

Priority Four

Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring.

- a. **Rare.** Ecological communities known from few occurrences that are considered to have been [Adequately surveyed](#), or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change These communities are usually represented on conservation lands.
- b. **Near Threatened.** Ecological communities that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for [Vulnerable](#).



- c. Ecological communities that have been removed from the list of threatened communities during the past five years.

Priority Five

Conservation Dependent Ecological Communities

Ecological Communities that are not threatened but are subject to a specific conservation program, the cessation of which would result in the community becoming threatened within five years.



Appendix F Site Descriptions Phase 1



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Phase 1 Site Descriptions Tropicana Operational Area Site 01

Described CJM **Date** 9/11/2006 **Type:** QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 651501 mE 6765026 mN
Habitat Plain
Soil Red-orange / clay
Rock Type No rocks
Vegetation Moderately dense *Acacia aneura* var. *aneura*, over very isolated shrubs, over isolated *Eragrostis eriopoda* / *Monachather paradoxus* grasses.
Veg Condition Excellent
Notes Plentiful leaf litter mainly under shrubs, plentiful wood litter

Species List:

Trees < 5 metres	<i>Acacia aneura</i> var. <i>aneura</i>
Shrubs 1-2 metres	<i>Eremophila latrobei</i> subsp. <i>filiformis</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i>
Shrubs <0.5 metres	<i>Solanum lasiophyllum</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eragrostis eriopoda</i> , <i>Monachather paradoxus</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 02

Described CJM Date 9/11/2007 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 653076 mE 6763446 mN
Habitat Crest of small rocky ridge
Soil Red-orange / clay loam
Rock Type Ferrous
Vegetation Open *Casuarina pauper*, over *Acacia aneura* var. *argentea*, over open mixed shrubs dominantly *Eremophila scoparia* and *Scaevola spinescens*
Veg Condition Pristine
Fire Old
Notes Moderate leaf litter mainly under shrubs

Species List:

Trees < 5 metres	<i>Casuarina pauper</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>argentea</i>
Shrubs 1-2 metres	<i>Acacia oswaldii</i> , <i>Acacia sibirica</i> , <i>Acacia tetragonophylla</i> , <i>Dodonaea lobulata</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Eremophila scoparia</i> , <i>Pittosporum angustifolium</i> , <i>Santalum spicatum</i> , <i>Senna artemisioides</i> subsp. <i>artemisioides</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs 0.5-1 metres	<i>Anthobolus leptomerioides</i> , <i>Eremophila scoparia</i> , <i>Scaevola spinescens</i>
Shrubs <0.5 metres	<i>Maireana tomentosa</i> , <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> , <i>Sida ?calyxhymenia</i>
Tussock and annual grasses	<i>Eriachne mucronata</i> (desert form), <i>Paspalidium</i> sp.
Herbs	<i>Maireana sedifolia</i> , <i>Ptilotus exaltatus</i> var. <i>exaltatus</i> , <i>Zygophyllum eremaeum</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 03

Described CCS Date 9/11/2006 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 652203 mE 6764275 mN
Habitat Undulating plain
Soil Red sandy clay
Rock Type Calcrete bedrock
Vegetation *Casuarina pauper* sparse medium woodland, over sparse *Eucalyptus concinna* mallee, over open *Senna artemisioides* subsp. *petiolaris* medium shrubs
Veg Condition Pristine
Fire None evident
Notes Moderate leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees 5-15 metres	<i>Casuarina pauper</i>
Trees < 5 metres	<i>Alectryon oleifolius</i> subsp. <i>canescens</i> , <i>Eucalyptus concinna</i> , <i>Santalum spicatum</i>
Shrubs 1-2 metres	<i>Eremophila scoparia</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs 0.5-1 metres	<i>Maireana sedifolia</i> , <i>Scaevola spinescens</i>
Shrubs <0.5 metres	<i>Acacia oswaldii</i> , <i>Acacia tetragonophylla</i> , <i>Chenopodium desertorum</i> subsp. <i>desertorum</i> , <i>Maireana</i> sp., <i>Maireana tomentosa</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Austrostipa ?nitida</i> , <i>Enneapogon polyphyllus</i> , <i>Paspalidium clementii</i>
Herbs	<i>Olearia decurrens</i> , <i>Salsola australis</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 04

Described CCS Date 9/11/2006 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 651459 mE 6763083 mN
Habitat Dune crest
Soil Red-orange sand
Rock Type No rocks
Vegetation *Codonocarpus cotinifolius* sparse low trees, over *Thryptomene biseriata*, over open medium shrubs, over open *Anthotroche pannosa* / *Dicrastylis nicholasii* low shrubs.
Veg Condition Pristine
Fire <1yr
Notes Sparse Leaf litter mainly under shrubs, sparse wood litter

Species List:

Trees < 5 metres	<i>Codonocarpus cotinifolius</i>
Shrubs 1-2 metres	<i>Thryptomene biseriata</i>
Shrubs 0.5-1 metres	<i>Acacia murrayana</i> , <i>Anthotroche pannosa</i> , <i>Duboisia hopwoodii</i>
Shrubs <0.5 metres	<i>Dicrastylis nicholasii</i> , <i>Eremophila platycalyx</i> subsp. <i>platycalyx</i> , <i>Grevillea secunda</i> , <i>Lechenaultia striata</i> , <i>Scaevola parvifolia</i> , <i>Solanum plicatile</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i> , <i>Eriachne helmsii</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 05

Described CJM Date 9/11/2006 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 650575 mE 6764131 mN
Habitat Plain
Soil Red-orange/sand
Rock Type No rocks
Vegetation Open regrowth *Eucalyptus gongylocarpa*, over regrowth *Duboisia hopwoodii* / low *Aluta maisonneuvei* subsp. *auriculata* / *Triodia basedowii*
Veg Condition Excellent
Fire Moderate
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Codonocarpus cotinifolius</i> , <i>Eucalyptus trivalva</i> , <i>Eucalyptus ?carnei</i> , <i>Eucalyptus gongylocarpa</i>
Shrubs 0.5-1 metres	<i>Alyogyne pinoniana</i> , <i>Duboisia hopwoodii</i> , <i>Hakea francisiana</i> , <i>Hannafordia</i> <i>bissillii</i> subsp. <i>bissillii</i>
Shrubs <0.5 metres	<i>Acacia desertorum</i> var. <i>desertorum</i> , <i>Acacia jamesiana</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Callitris sp.</i> , <i>Leptosema chambersii</i> , <i>Monotaxis luteiflora</i> , <i>Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	? <i>Urochloa piligera</i> , <i>Amphipogon caricinus</i> , <i>Aristida holathera</i> var. <i>holathera</i>
Herbs	<i>Goodenia xanthosperma</i>



Phase 1 Site Descriptions Tropicana Operational Area

Site 06

Described CJM Date 9/11/2006 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 651207 mE 6763177 mN
Habitat Dune swale
Soil Red-orange/sand
Rock Type No rocks
Vegetation Burnt dead *Acacia* sp, over open *Duboisia hopwoodii* / *Dicrastylis brunnea*, over *Aluta maisonneuvei* subsp. *auriculata*, over *Triodia basedowii*
Veg Condition Excellent
Fire Moderate
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Codonocarpus cotinifolius</i>
Shrubs 0.5-1 metres	<i>Anthotroche pannosa</i> , <i>Dicrastylis</i> sp. <i>Cundeeleensis</i> (D.J. Pearson 101), <i>Duboisia hopwoodii</i>
Shrubs <0.5 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Alyogyne pinoniana</i> , <i>Callitris</i> sp., <i>Dicrastylis brunnea</i> , <i>Goodenia scaevolina</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Leptosema chambersii</i> , <i>Monotaxis luteiflora</i> , <i>Scaevola parvifolia</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Amphipogon caricinus</i> , <i>Aristida holathera</i> var. <i>holathera</i> , <i>Eragrostis eriopoda</i> , <i>Eragrostis setifolia</i>
Herbs	<i>Goodenia xanthosperma</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 07

Described CJM Date 9/11/2007 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 649814 mE 6763412 mN
Habitat Plain
Soil Red-orange/sand
Rock Type No rocks
Vegetation Isolated *Codonocarpus cotinifolius* low trees, over open *Eucalyptus trivalva* / *Eucalyptus horistes* mallee, over open mixed low shrubs, over open *Triodia basedowii* hummock grass.
Veg Condition Pristine
Fire Moderate
Notes Moderate leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus horistes, Eucalyptus trivalva</i>
Trees < 5 metres	<i>Eucalyptus trivalva</i>
Shrubs 0.5-1 metres	<i>Alyogyne pinoniana, Duboisia hopwoodii, Eremophila decipiens</i> subsp. <i>decipiens</i>
Shrubs <0.5 metres	<i>Acacia eremophila</i> var. <i>variabilis, Eremophila paisleyi</i> subsp. <i>paisleyi, Eremophila platythamnos</i> subsp. <i>platythamnos, Grevillea nematophylla, Hakea francisiana, Scaevola parvifolia, Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Herbs	<i>Goodenia ramelii</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 09

Described CJM Date 10/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 649788 mE 6762155 mN
Habitat Dune side
Soil Red-orange/sand
Rock Type No rocks
Vegetation Open *Eucalyptus gongylocarpa* , over open mixed shrubs, over open *Triodia basedowii* hummock grass.
Veg Condition Excellent
Fire Old
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Trees < 5 metres	<i>Hakea francisiana</i>
Shrubs 1-2 metres	<i>Acacia ligulata</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Pittosporum angustifolium</i>
Shrubs 0.5-1 metres	<i>Acacia acanthoclada</i> subsp. <i>acanthoclada</i> , <i>Alyxia buxifolia</i> , <i>Anthotroche pannosa</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Eremophila platycalyx</i> subsp. <i>platycalyx</i> , <i>Eremophila scoparia</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Pimelea microcephala</i> subsp. <i>microcephala</i>
Shrubs <0.5 metres	<i>Acacia acanthoclada</i> subsp. <i>acanthoclada</i> , <i>Alyogyne pinoniana</i> , <i>Bertya dimerostigma</i> , <i>Callitris</i> sp., <i>Dicrastylis brunnea</i> , <i>Dicrastylis</i> sp. <i>Cundeeleensis</i> (D.J. Pearson 101), <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Eremophila decipiens</i> subsp. <i>decipiens</i> , <i>Grevillea juncifolia</i> subsp. <i>temulenta</i> , <i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i> , <i>Jasminum didymum</i> subsp. <i>lineare</i> , <i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia desertorum</i> , <i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eriachne helmsii</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 10

Described CCS Date 10/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 650253 mE 6761863 mN
Habitat Flat/plain to swale between dunes
Soil Red-orange/sandy loam
Rock Type No rocks
Vegetation *Eucalyptus trivalva* open medium mallee, over *Acacia jamesiana* sparse medium shrubs, over *Triodia basedowii*
Veg Condition Pristine
Fire Old
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Shrubs >2 metres	<i>Eucalyptus trivalva</i>
Shrubs 1-2 metres	<i>Acacia jamesiana</i> , <i>Leptospermum fastigiatum</i>
Shrubs 0.5-1 metres	<i>Acacia burkittii</i> , <i>Acacia sibirica</i> , <i>Alyogyne pinoniana</i> , <i>Anthotroche pannosa</i> , <i>Dodonaea adenophora</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i>
Shrubs <0.5 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Callitris ?columellaris</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Keraudrenia velutina</i> , <i>Leptosema chambersii</i>
Hummock grasses	<i>Triodia basedowii</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 11

Described CJM Date 11/10/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 649120 mE 6761685 mN
Habitat Dune crest
Soil Red-orange/sand
Rock Type No rocks
Vegetation Sparse *Pityrodia loricata* low shrubs, over sparse to open *Lomandra leucocephala* subsp. *robusta* and *Triodia desertorum* hummock grass.
Veg Condition Pristine
Fire Old
Notes Negligible leaf litter and sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Trees < 5 metres	<i>Grevillea stenobotrya</i>
Shrubs 1-2 metres	<i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Pityrodia loricata</i>
Shrubs 0.5-1 metres	<i>Anthotroche pannosa</i> , <i>Daviesia grahamii</i>
Shrubs <0.5 metres	<i>Acacia acanthoclada</i> subsp. <i>acanthoclada</i> , <i>Chrysocephalum puteale</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia desertorum</i>
Sedges	<i>Lomandra leucocephala</i> subsp. <i>robusta</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 12

Described CCS Date 10/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 648628 mE 6761711 mN
Habitat Dune crest
Soil Red-orange/ fine sand
Rock Type No rocks
Vegetation *Callitris columellaris* scattered trees, over *Eucalyptus youngiana* sparse mallee, over *Anthotroche pannosa* / *Pityrodia loricata* open low shrubland, over *Triodia desertorum* open hummock grass.
Veg Condition Excellent
Fire Old
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Callitris columellaris</i>
Shrubs >2 metres	<i>Eucalyptus youngiana</i>
Shrubs 1-2 metres	<i>Acacia jamesiana</i> , <i>Acacia sibirica</i> , <i>Eremophila decipiens</i> subsp. <i>decipiens</i> , <i>Leptospermum fastigiatum</i>
Shrubs 0.5-1 metres	<i>Spartothamnella teucriflora</i>
Shrubs <0.5 metres	<i>Anthotroche pannosa</i> , <i>Pityrodia loricata</i> , <i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Aristida holathera</i> var. <i>holathera</i> , <i>Eragrostis eriopoda</i> , <i>Eriochloa</i> sp., <i>Monachather paradoxus</i>
Herbs	<i>Salsola australis</i>
Sedges	<i>Lomandra leucocephala</i> subsp. <i>robusta</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 13

Described CCS Date 10/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 649395 mE 6760590 mN
Habitat Undulating plain / broad crest
Soil orange/sand
Rock Type No rocks
Vegetation *Eucalyptus gongylocarpa* open low woodland, over *Eucalyptus trivalva* sparse mallee, over open low shrubs and *Triodia basedowii* moderately dense hummock grassland.
Veg Condition Pristine
Fire None evident
Notes Moderate leaf litter, mainly under trees and sparse wood litter

Species List:

Trees < 5 metres	<i>Eucalyptus gongylocarpa</i> , <i>Eucalyptus trivalva</i>
Shrubs 0.5-1 metres	<i>Acacia ligulata</i> , <i>Grevillea juncifolia</i>
Shrubs <0.5 metres	<i>Alyogyne pinoniana</i> , <i>Anthotroche pannosa</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Hakea francisiana</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Scaevola basedowii</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Hummock grasses	<i>Triodia basedowii</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 14

Described CJM Date 11/10/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 649155 mE 6760401 mN
Habitat Slope - no obvious crest nearby
Soil Red-orange/sand
Rock Type no rocks
Vegetation Open *Eucalyptus gongylocarpa*, over open to moderately dense *Callitris columellaris*, over open mixed shrubs, over *Triodia basedowii*
Veg Condition Pristine
Fire
Notes Plentiful leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Trees < 5 metres	<i>Callitris columellaris</i>
Shrubs >2 metres	<i>Alyxia buxifolia</i>
Shrubs 1-2 metres	<i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Eremophila decipiens</i> subsp. <i>decipiens</i> , <i>Pimelea microcephala</i> subsp. <i>microcephala</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Thryptomene biseriata</i>
Shrubs 0.5-1 metres	<i>Bertya dimerostigma</i> , <i>Eremophila oppositifolia</i> , <i>Olearia exiguifolia</i>
Shrubs <0.5 metres	<i>Maireana tomentosa</i> , <i>Solanum lasiophyllum</i>
Hummock grasses	<i>Triodia basedowii</i>



Phase 1 Site Descriptions Tropicana Operational Area	Site	16
Described	CJM Date 10/11/200	Type: QUADRAT 20 X 20
Location	Tropicana	
MGA Zone	51 646801 mE	6760048 mN
Habitat	Dune swale	
Soil	Red-orange/sand	
Rock Type	No rocks	
Vegetation	Moderately dense <i>Acacia aneura</i> var. <i>aneura</i> over sparse <i>Eremophila forrestii</i> , over patches of <i>Triodia basedowii</i> .	
Veg Condition	Pristine	
Notes	Sparse leaf litter, mainly under shrubs and sparse wood litter	

Species List:

Trees < 5 metres	<i>Acacia aneura</i> var. <i>aneura</i>
Shrubs 1-2 metres	<i>Eremophila latrobei</i> , <i>Prostanthera althoferi</i> subsp. <i>althoferi</i>
Shrubs 0.5-1 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Eremophila forrestii</i>
Hummock grasses	<i>Triodia basedowii</i>
Twiners	<i>Marsdenia australis</i>



Phase 1 Site Descriptions Tropicana Operational Area	Site	17
Described	CCS Date 10/11/200	Type: QUADRAT 20 X 20
Location	Tropicana	
MGA Zone	51 646507 mE	6759814 mN
Habitat	Broad dune crest	
Soil	Red-orange/sandy loam	
Rock Type	No rocks	
Vegetation	<i>Eucalyptus gongylocarpa</i> / <i>Callitris columellaris</i> sparse low woodland, over mixed shrubs and <i>Triodia</i> sp. (indeterminant) open hummock grass.	
Veg Condition	Pristine	
Fire	Old	
Notes	Sparse leaf litter, mainly under trees and sparse wood litter	

Species List:

Trees < 5 metres	<i>Callitris columellaris, Eucalyptus gongylocarpa</i>
Shrubs 1-2 metres	<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>
Shrubs 0.5-1 metres	<i>Anthotroche pannosa, Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris, Senna pleurocarpa</i> var. <i>pleurocarpa</i>
Shrubs <0.5 metres	<i>Keraudrenia velutina</i>
Hummock grasses	<i>Triodia</i> sp.
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera, Eriachne helmsii</i>
Herbs	<i>Commersonia melanopetala</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 18

Described CCS Date 10/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 646200 mE 6760911 mN
Habitat Undulating plain
Soil orange/sand
Rock Type No rocks
Vegetation *Eucalyptus horistes* open medium mallee, over *Acacia eremophila* var. *variabilis* / *Halgania cyanea* var. Allambi Stn (B.W. Strong 676) dwarf shrubs, over *Triodia* sp. moderately dense hummock grass.
Veg Condition Pristine
Fire None evident
Notes Moderate leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Eucalyptus horistes</i>
Mallees <5 metres	<i>Eucalyptus concinna</i>
Shrubs 1-2 metres	? <i>Daviesia</i> sp., <i>Acacia eremophila</i> var. <i>variabilis</i> , <i>Acacia oswaldii</i>
Shrubs 0.5-1 metres	<i>Acacia colletioides</i> , <i>Acacia prainii</i> , <i>Alyogyne pinoniana</i>
Shrubs <0.5 metres	<i>Acacia eremophila</i> var. <i>variabilis</i> , <i>Halgania cyanea</i> var. Allambi Stn (B.W. Strong 676)
Hummock grasses	<i>Triodia</i> sp.(indeterminant)



Phase 1 Site Descriptions Tropicana Operational Area Site 19

Described CJM Date 10/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 646397 mE 6760752 mN
Habitat Very low calcreteous mound
Soil Red-orange/sand
Rock Type Calcrete
Vegetation Open *Eucalyptus oleosa* subsp. *oleosa*, over *Scaevola spinescens* / *Senna artemisioides* subsp. *filifolia* / *Olearia muelleri*, over isolated *Triodia* sp. hummock grass.
Veg Condition Excellent
Fire Old
Notes Plentiful leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>
Shrubs 1-2 metres	<i>Senna artemisioides</i> subsp. <i>filifolia</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs 0.5-1 metres	<i>Acacia colletioides</i> , <i>Eremophila decipiens</i> subsp. <i>decipiens</i>
Shrubs <0.5 metres	<i>Scaevola spinescens</i>
Hummock grasses	<i>Triodia</i> sp.(indeterminant)
Tussock and annual grasses	<i>Austrostipa platychaeta</i> , <i>Enneapogon</i> sp.
Herbs	<i>Zygophyllum apiculatum</i>



Phase 1 Site Descriptions Tropicana Operational Area	Site	20
Described	CCS Date 10/11/200	Type: QUADRAT 20 X 20
Location	Tropicana	
MGA Zone	51 648976 mE	6759212 mN
Habitat	Edge of broad dune crest	
Soil	Red-orange/sandy loam	
Rock Type	No rocks	
Vegetation	<i>Eucalyptus youngiana</i> scattered mallee, over <i>Gyrostemon ramulosus</i> / <i>Grevillea stenobotrya</i> low trees / tall shrubs, over <i>Triodia desertorum</i> open hummock grassland	
Veg Condition	Pristine	
Fire	Moderate	
Notes	Sparse leaf litter, mainly under shrubs and sparse wood litter	

Species List:

Trees < 5 metres	<i>Eucalyptus youngiana</i>
Shrubs >2 metres	<i>Grevillea stenobotrya</i> , <i>Gyrostemon ramulosus</i>
Shrubs 1-2 metres	<i>Acacia ligulata</i>
Shrubs 0.5-1 metres	<i>Adriana urticoides</i> var. <i>hookeri</i> , <i>Anthotroche pannosa</i> , <i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i> , <i>Thryptomene biseriata</i>
Shrubs <0.5 metres	<i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia desertorum</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 21

Described CJM Date 10/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 649191 mE 6759013 mN
Habitat Dune swale
Soil Red-orange/sand
Rock Type No rocks
Vegetation Open *Hakea francisiana*, *Eucalyptus gongylocarpa* over open *Grevillea juncifolia* subsp. *temulenta* / *Acacia ligulata* / juvenile *Eucalyptus gongylocarpa* over open *Triodia desertorum* hummock grass.
Veg Condition Pristine
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Eucalyptus gongylocarpa</i> , <i>Grevillea juncifolia</i> subsp. <i>temulenta</i>
Shrubs >2 metres	<i>Hakea francisiana</i>
Shrubs <0.5 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Anthotroche pannosa</i> , <i>Bertya dimerostigma</i> , <i>Callitris</i> sp., <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Eremophila platycalyx</i> subsp. <i>platycalyx</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia desertorum</i>
Herbs	<i>Olearia arida</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 22

Described CCS Date 11/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 647409 mE 6758332 mN
Habitat Plain / flat
Soil orange/clayey sand
Rock Type No rocks
Vegetation Mixed *Acacia aneura* open woodland, over *Eucalyptus oleosa* subsp. *oleosa* mallee trees and sparse *Duboisia hopwoodii* / *Prostanthera sericea* tall shrubs, over moderately dense *Aluta maisonneuvei* subsp. *auriculata* / *Eremophila forrestii* mixed medium - low shrubland.
Veg Condition Pristine
Fire Moderate
Notes Moderate leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees < 5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia aneura</i> var. <i>tenuis</i> , <i>Codonocarpus cotinifolius</i> , <i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>
Mallees <5 metres	<i>Eucalyptus youngiana</i>
Shrubs 1-2 metres	<i>Duboisia hopwoodii</i> , <i>Prostanthera sericea</i>
Shrubs 0.5-1 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Eremophila forrestii</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>artemisioides</i>
Shrubs <0.5 metres	<i>Alyogyne pinoniana</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Solanum lasiophyllum</i> , <i>Solanum plicatile</i>
Tussock and annual grasses	? <i>Amphipogon caricinus</i> , <i>Aristida holathera</i> var. <i>holathera</i> , <i>Eragrostis eriopoda</i> , <i>Eragrostis xerophila</i> , <i>Monachather paradoxus</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 23

Described CJM Date 11/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 646726 mE 6757690 mN
Habitat Plain
Soil Red-orange/sandy clay
Rock Type Ferrous
Vegetation Open to moderately dense *Acacia aneura* var. *argentea* / *Acacia aneura* var. *aneura*, over open to moderately dense shrubland of *Acacia aneura* var. *argentea*, *Aluta maisonneuvei* subsp. *auriculata* / *Eremophila forrestii*, over isolated grasses.
Veg Condition Pristine
Fire Old
Notes Moderate leaf litter, mainly under shrubs and plentiful wood litter

Species List:

Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i>
Shrubs 1-2 metres	<i>Psyrax suaveolens</i>
Shrubs <0.5 metres	<i>Eremophila forrestii</i> , <i>Solanum lasiophyllum</i>
Hummock grasses	<i>Triodia ?basedowii</i> , <i>Triodia basedowii</i>
Tussock and annual grasses	<i>Amphipogon caricinus</i> , <i>Eragrostis eriopoda</i> , <i>Eragrostis</i> sp.



Phase 1 Site Descriptions Tropicana Operational Area Site 24

Described CCS Date 11/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 648327 mE 6757593 mN
Habitat Broad sand dune crest - rise in sand plains
Soil orange/sandy loam
Rock Type No rocks
Vegetation *Eucalyptus gongylocarpa* sparse medium woodland, over *Anthotroche pannosa* low shrubs, over *Triodia desertorum* hummock grassland.
Veg Condition Pristine
Fire Old
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Trees < 5 metres	<i>Callitris columellaris</i> , <i>Gyrostemon</i> sp.
Shrubs 1-2 metres	<i>Acacia ligulata</i>
Shrubs 0.5-1 metres	<i>Adriana urticoides</i> var. <i>hookeri</i> , <i>Anthotroche pannosa</i> , <i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963), <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Eremophila platycalyx</i> subsp. <i>platycalyx</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i>
Shrubs <0.5 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Scaevola basedowii</i> , <i>Thryptomene biseriata</i>
Hummock grasses	<i>Triodia desertorum</i>
Twiners	



Phase 1 Site Descriptions Tropicana Operational Area Site 25

Described CCS Date 11/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 647356 mE 6757348 mN
Habitat Broad lower slope of narrow dune
Soil Orange sandy loam
Rock Type No rocks
Vegetation *Eucalyptus gongylocarpa* scattered trees, over *Eucalyptus youngiana* scattered mallee, over *Anthotroche pannosa* and other low shrubs, over sparse *Triodia desertorum* hummock grass.
Veg Condition Pristine
Fire Moderate
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Codonocarpus cotinifolius</i> , <i>Eucalyptus gongylocarpa</i> , <i>Eucalyptus youngiana</i> , <i>Gyrostemon ramulosus</i>
Shrubs 1-2 metres	<i>Micromyrtus stenocalyx</i>
Shrubs 0.5-1 metres	<i>Anthotroche pannosa</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i>
Shrubs <0.5 metres	<i>Dicrastylis</i> sp. <i>Cundeeleensis</i> (D.J. Pearson 101), <i>Eremophila platycalyx</i> subsp. <i>platycalyx</i> , <i>Prostanthera althoferi</i> subsp. <i>althoferi</i> , <i>Scaevola basedowii</i> , <i>Thryptomene biseriata</i>
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i> , <i>Eragrostis xerophila</i>
Herbs	<i>Pomax</i> sp. desert (A.S. George 11968)



Phase 1 Site Descriptions Tropicana Operational Area Site 26

Described CJM Date 11/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 646899 mE 6757105 mN
Habitat Hill lower slope
Soil Orange sandy clay
Rock Type Ferrous
Vegetation Burnt *open Acacia aneura* sp. / *Eucalyptus oleosa* subsp. *oleosa* regrowth, over *Triodia basedowii* hummock grass.
Veg Condition Pristine
Fire Moderate
Notes sparse wood litter

Species List:

Trees < 5 metres	<i>Codonocarpus cotinifolius</i>
Shrubs <0.5 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia sibirica</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Dicrastylis brunnea</i> , <i>Eremophila forrestii</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Eucalyptus oleosa</i> subsp. <i>oleosa</i> , <i>Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eragrostis xerophila</i> , <i>Monachather paradoxus</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 27

Described CJM Date 11/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 645781 mE 6757458 mN
Habitat Plain / flat
Soil Orange sand
Rock Type No rocks
Vegetation Burnt *Acacia aneura* sp., over open low shrubs *Keraudrenia velutina* / *Dicrastylis brunnea*, over sparse *Triodia basedowii* hummock grass.
Veg Condition Excellent
Notes Moderate wood litter

Species List:

Name	Cover	Height
Trees < 5 metres	<i>Eucalyptus trivalva</i>	
Shrubs >2 metres	<i>Acacia ramulosa</i> var. <i>ramulosa</i>	
Shrubs 0.5-1 metres	<i>Acacia murrayana</i>	
Shrubs <0.5 metres	<i>Dicrastylis brunnea</i> , <i>Dicrastylis nicholasii</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Keraudrenia velutina</i> , <i>Leptosema chambersii</i> , <i>Sida arenicola</i>	
Hummock grasses	<i>Triodia basedowii</i>	
Tussock and annual grasses	<i>Eragrostis xerophila</i>	



Phase 1 Site Descriptions Tropicana Operational Area Site 28

Described CCS Date 11/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 645544 mE 6756628 mN
Habitat Undulating plain
Soil Orange fine clayey sand
Rock Type Ferrous
Vegetation *Eucalyptus ?leptophylla* scattered low mallee, over *Leptosema chambersii*, over moderately dense dwarf shrubland.
Veg Condition Pristine
Fire Moderate
Notes Negligible leaf and wood litter

Species List:

Shrubs 1-2 metres	<i>Eucalyptus ?leptophylla</i> , <i>Prostanthera sericea</i>
Shrubs 0.5-1 metres	<i>Eucalyptus ?leptophylla</i>
Shrubs <0.5 metres	<i>Acacia ligulata</i> , <i>Dicrastylis brunnea</i> , <i>Dicrastylis nicholasii</i> , <i>Grevillea acacioides</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Leptosema chambersii</i>
Tussock and annual grasses	<i>Amphipogon caricinus</i> , <i>Eragrostis sp.</i>
Herbs	<i>Dampiera dentata</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 29

Described CJM Date 11/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 645297 mE 6756215 mN
Habitat Plain / flat
Soil Red-orange sand
Rock Type No rocks
Vegetation Isolated burnt Acacia aneura sp., over open mixed dwarf shrubland dominated by *Leptosema chambersii*.
Veg Condition Pristine
Notes Sparse wood litter

Species List:

Shrubs 1-2 metres	<i>Duboisia hopwoodii</i>
Shrubs 0.5-1 metres	<i>Eucalyptus ?leptopoda</i> , <i>Grevillea nematophylla</i> subsp. <i>planicosta</i>
Shrubs <0.5 metres	<i>Acacia rigens</i> , <i>Dicrastylis brunnea</i> , <i>Dicrastylis nicholasii</i> , <i>Keraudrenia velutina</i> , <i>Leptosema chambersii</i> , <i>Sida</i> sp.
Tussock and annual grasses	<i>Amphipogon caricinus</i> , <i>Aristida</i> sp., <i>Eragrostis falcata</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 30

Described CCS Date 11/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 646438 mE 6755998 mN
Habitat Dune crest and slope
Soil Orange clayey sand
Rock Type No rocks
Vegetation *Eucalyptus oleosa* subsp. *oleosa* moderately dense medium mallee, over mixed shrubs and *Triodia desertorum* open hummock grassland
Veg Condition Pristine
Fire Old
Notes Moderate leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees < 5 metres	<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>
Shrubs 1-2 metres	<i>Pimelea microcephala</i> subsp. <i>microcephala</i>
Shrubs 0.5-1 metres	<i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Jasminum</i> sp., <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Thryptomene biseriata</i>
Shrubs <0.5 metres	<i>Westringia rigida</i>
Hummock grasses	<i>Triodia desertorum</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 31

Described CJM Date 11/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 647078 mE 6756334 mN
Habitat Plain, near a dune
Soil Orange sand
Rock Type No rocks
Vegetation Burnt open *Acacia aneura* var. *intermedia.*, over open *Duboisia hopwoodii* / *Eremophila forrestii*, over mixed soft grasses.
Veg Condition Pristine
Notes Sparse leaf litter, mainly under shrubs and plentiful wood litter

Species List:

Trees < 5 metres	<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>
Shrubs 1-2 metres	<i>Codonocarpus cotinifolius</i> , <i>Duboisia hopwoodii</i>
Shrubs 0.5-1 metres	<i>Acacia aneura</i> var. <i>intermedia</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>
Shrubs <0.5 metres	<i>Eremophila forrestii</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Solanum orbiculatum</i> , <i>Solanum plicatile</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i> , <i>Eragrostis eriopoda</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 32

Described CCS Date 11/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 647616 mE 6756185 mN
Habitat Slope of narrow linear dune
Soil Orange sand
Rock Type No rocks
Vegetation *Eucalyptus gongylocarpa* sparse low woodland, over mixed low shrubs, over *Triodia basedowii* sparse hummock grass.
Veg Condition Pristine
Fire Moderate
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Codonocarpus cotinifolius</i> , <i>Eucalyptus gongylocarpa</i> , <i>Eucalyptus youngiana</i> ,
Shrubs 0.5-1 metres	<i>Anthotroche pannosa</i> , <i>Dampiera tomentosa</i> , <i>Pimelea microcephala</i> subsp. <i>microcephala</i>
Shrubs <0.5 metres	<i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia basedowii</i>
Herbs	<i>Pomax</i> sp. desert (A.S. George 11968)



Phase 1 Site Descriptions Tropicana Operational Area Site 33

Described CJM Date 12/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 648788 mE 6755843 mN
Habitat Dune crest
Soil yellow-orange sand
Rock Type No rocks
Vegetation Open mixed low shrubland of *Grevillea stenobotrya* / *Daviesia grahamii* / *Bertya dimerostigma* / *Anthotroche pannosa*, over open *Triodia desertorum* hummock grass.
Veg Condition Pristine
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Grevillea stenobotrya</i>
Shrubs >2 metres	<i>Aluta maisonneuvei</i> , <i>Gyrostemon ramulosus</i>
Shrubs 1-2 metres	<i>Acacia ligulata</i> , <i>Daviesia grahamii</i>
Shrubs 0.5-1 metres	<i>Bertya dimerostigma</i> , <i>Leptosema chambersii</i> , <i>Thryptomene biseriata</i>
Shrubs <0.5 metres	<i>Anthotroche pannosa</i> , <i>Callitris columellaris</i> , <i>Chrysocephalum puteale</i> , <i>Newcastelia hexarrhena</i> , <i>Pityrodia loricata</i>
Hummock grasses	<i>Triodia desertorum</i>
Herbs	<i>Pomax</i> sp. desert (A.S. George 11968)



Phase 1 Site Descriptions Tropicana Operational Area Site 34

Described CCS Date 12/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 648402 mE 6756019 mN
Habitat Rocky hill crest
Soil pale sandy clay
Rock Type ferrous style sandstone and Quartz
Vegetation *Casuarina pauper* and mixed *Acacia aneura* var. *argentea* low woodland, over mixed medium to low *Acacia tetragonophylla* / *Acacia sibirica* / *Olearia muelleri* / *Scaevola spinescens* shrubland.
Veg Condition Excellent
Fire None evident
Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees 5-15 metres	<i>Casuarina pauper</i>
Trees < 5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i>
Shrubs 1-2 metres	<i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>Acacia sibirica</i> , <i>Acacia tetragonophylla</i> , <i>Alyxia buxifolia</i> , <i>Casuarina pauper</i> , <i>Eremophila decipiens</i> subsp. <i>decipiens</i> , <i>Eremophila latrobei</i> subsp. <i>filiformis</i> , <i>Pittosporum angustifolium</i>
Shrubs 0.5-1 metres	<i>Acacia ligulata</i> , <i>Scaevola spinescens</i>
Shrubs <0.5 metres	<i>Maireana triptera</i> , <i>Maireana villosa</i> , <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> , <i>Senna artemisioides</i> subsp. <i>artemisioides</i>
Herbs	<i>Sida</i> sp.



Phase 1 Site Descriptions Tropicana Operational Area Site 35

Described CCS Date 12/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 648024 mE 6755500 mN
Habitat Dune crest
Soil Yellow clayey sand
Rock Type No rocks
Vegetation *Eucalyptus gongylocarpa* / *Callitris columellaris* sparse low woodland, over *Eucalyptus oleosa* subsp. *oleosa* mallee and open *Acacia helmsiana* / *Thryptomene biseriata* medium shrubland, over open *Triodia desertorum* hummock grass.
Veg Condition Pristine
Fire none evident
Notes Sparse leaf litter, mainly under trees and sparse wood litter

Species List:

Trees < 5 metres	<i>Callitris columellaris</i> , <i>Eucalyptus gongylocarpa</i>
Shrubs >2 metres	<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>
Shrubs 1-2 metres	<i>Micromyrtus stenocalyx</i>
Shrubs 0.5-1 metres	<i>Acacia helmsiana</i> , <i>Anthotroche pannosa</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Lomandra leucocephala</i> subsp. <i>robusta</i> , <i>Pityrodia loricata</i> , <i>Thryptomene biseriata</i>
Shrubs <0.5 metres	<i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia desertorum</i>
Sedges	<i>Caustis dioica</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 36

Described CJM Date 12/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 646934 mE 6755291 mN
 Habitat Plain
 Soil Yellow-orange sand
 Rock Type No rocks
 Vegetation Open *Eucalyptus gongylocarpa* low trees, over sparse *Eremophila latrobei* subsp. *latrobei* medium shrubs, over open *Triodia desertorum* hummock grass.
 Veg Condition Pristine
 Fire
 Notes plentiful leaf litter, and plentiful wood litter

Species List:

Trees < 5 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Eucalyptus gongylocarpa</i> , <i>Santalum acuminatum</i>
Shrubs 1-2 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia ligulata</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Duboisia hopwoodii</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Olearia subspicata</i>
Shrubs 0.5-1 metres	<i>Dicrastylis brunnea</i> , <i>Olearia subspicata</i>
Shrubs <0.5 metres	<i>Newcastelia hexarrhena</i> , <i>Solanum lasiophyllum</i>
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i> , <i>Eriachne helmsii</i> , <i>Monachather paradoxus</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 37

Described CJM Date 12/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 646858 mE 6754318 mN
 Habitat Dune side
 Soil Yellow sand
 Rock Type No rocks
 Vegetation Isolated *Eucalyptus gongylocarpa*, over open shrubland dominated by *Anthotroche pannosa* / *Pityrodia loricata* / *Thryptomene biseriata*, over open *Triodia* sp hummock grass
 Veg Condition Pristine
 Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Shrubs 1-2 metres	<i>Acacia murrayana</i> , <i>Dampiera tomentosa</i>
Shrubs 0.5-1 metres	<i>Acacia ?sibina</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Pityrodia loricata</i>
Shrubs <0.5 metres	<i>Dicrastylis</i> sp. <i>Cundeeleensis</i> (D.J. Pearson 101), <i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i> , <i>Thryptomene biseriata</i>
Hummock grasses	<i>Triodia</i> sp.(indeterminant)
Tussock and annual grasses	<i>Amphipogon caricinus</i> , <i>Aristida holathera</i> var. <i>holathera</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 38

Described CCS Date 12/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 645998 mE 6754501 mN
Habitat Undulating plain - rise
Soil pale orange sandy clay
Rock Type No rocks
Vegetation Open *Acacia aneura* var. *argentea* low woodland, over *Eucalyptus youngiana* sparse mallee, over *Duboisia hopwoodii* shrubs.
Veg Condition Pristine
Fire Very recent
Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees < 5 metres	<i>Acacia aneura</i> var. <i>intermedia</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Codonocarpus cotinifolius</i> , <i>Eucalyptus youngiana</i>
Shrubs 1-2 metres	<i>Duboisia hopwoodii</i>
Shrubs 0.5-1 metres	<i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>Eucalyptus gongylocarpa</i>
Shrubs <0.5 metres	<i>Dicrastylis nicholasii</i> , <i>Eremophila forrestii</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Solanum plicatile</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i> , <i>Eragrostis xerophila</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 39

Described CJM Date 12/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 648552 mE 6754314 mN
 Habitat Dune swale
 Soil yellow-orange sand
 Rock Type no rocks
 Vegetation Open *Eucalyptus gongylocarpa* / *Callitris columellaris*, over open *Grevillea ?juncifolia*, over mixed low shrubs, over open *Triodia basedowii* hummock grass.
 Veg Condition Pristine
 Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>
Shrubs 1-2 metres	<i>Eucalyptus gongylocarpa</i> , <i>Grevillea ?juncifolia</i>
Shrubs 0.5-1 metres	<i>Acacia prainii</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>
Shrubs <0.5 metres	<i>Anthotroche pannosa</i> , <i>Callitris columellaris</i> , <i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i> , <i>Scaevola basedowii</i> , <i>Westringia rigida</i>
Hummock grasses	<i>Triodia basedowii</i>
Herbs	<i>Chrysocephalum puteale</i>
Sedges	<i>Lomandra leucocephala</i> subsp. <i>robusta</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 40

Described CCS Date 12/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 647378 mE 6753919 mN
 Habitat Broad dune swale
 Soil Pale orange sandy clay
 Rock Type No rocks
 Vegetation *Acacia aneura* var. *intermedia* / *Codonocarpus cotinifolius* open to low woodland, over *Duboisia hopwoodii* sparse medium shrubs, over mixed hummock grassland.
 Veg Condition Pristine
 Fire Moderate
 Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees < 5 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia aneura</i> var. <i>intermedia</i> , <i>Codonocarpus cotinifolius</i>
Shrubs 1-2 metres	<i>Duboisia hopwoodii</i> , <i>Grevillea nematophylla</i> subsp. <i>planicosta</i>
Shrubs 0.5-1 metres	<i>Eremophila platycalyx</i> subsp. <i>platycalyx</i>
Shrubs <0.5 metres	<i>Dicrastylis nicholasii</i> , <i>Eremophila forrestii</i> , <i>Keraudrenia velutina</i> , <i>Prostanthera sericea</i> , <i>Solanum plicatile</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Eragrostis eriopoda</i> , <i>Eragrostis xerophila</i> , <i>Monachather paradoxus</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 41

Described CCS Date 9/11/2006 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 651100 mE 6765128 mN
 Habitat Plain/flat
 Soil Red loamy sand
 Rock Type No rocks
 Vegetation *Eucalyptus concinna* open medium mallee, over sparse mixed *Acacia* spp. and other shrubs, over open *Triodia basedowii* hummock grass.
 Veg Condition Pristine
 Fire Very recent
 Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus concinna</i>
Trees < 5 metres	<i>Codonocarpus cotinifolius</i>
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Acacia colletioides</i> , <i>Acacia sibirica</i> , <i>Eremophila decipiens</i> subsp. <i>decipiens</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs 0.5-1 metres	<i>Jasminum didymum</i> subsp. <i>lineare</i>
Shrubs <0.5 metres	<i>Eremophila decipiens</i> subsp. <i>decipiens</i> , <i>Grevillea juncifolia</i> subsp. <i>temulenta</i> , <i>Olearia arida</i> , <i>Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Aristida holathera</i> var. <i>holathera</i> , <i>Austrostipa</i> sp., <i>Paspalidium basicladum</i>
Herbs	<i>Velleia glabrata</i> , <i>Zygophyllum eremaeum</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 44

Described CCS Date 9/11/2006 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 654264 mE 6762150 mN
 Habitat Undulating plain
 Soil Red-orange sandy clay
 Rock Type No rocks
 Vegetation *Eucalyptus concinna* sparse tall mallee, over mixed *Acacia aneura* var. *intermedia* / *Acacia aneura* var. *argentea* open tall shrubland, over *Senna artemisioides* subsp. *petiolaris* medium shrubs and *Triodia basedowii* open hummock grass.
 Veg Condition Pristine
 Fire None evident
 Notes Moderate leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus concinna</i>
Trees < 5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Acacia tetragonophylla</i> , <i>Anthobolus leptomerioides</i> , <i>Eremophila decipiens</i> subsp. <i>decipiens</i> , <i>Eremophila latrobei</i> subsp. <i>filiformis</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Chenopodium desertorum</i> , <i>Maireana tomentosa</i> , <i>Maireana villosa</i> , <i>Ptilotus obovatus</i> , <i>Rhagodia eremaea</i> , <i>Solanum lasiophyllum</i> , <i>Solanum orbiculatum</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Eragrostis eriopoda</i> , <i>Eriachne helmsii</i> , <i>Paspalidium clementii</i>
Herbs	<i>Ptilotus polystachyus</i>
Twiners	<i>Amyema fitzgeraldii</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 45

Described	CCS Date	14/11/200	Type:	QUADRAT 20 X 20
Location	Tropicana			
MGA Zone	51	654819 mE	6764114	mN
Habitat	Plain / flat			
Soil	Red sandy clay			
Rock Type	Calcrete and Quartz			
Vegetation	Mixed <i>Acacia aneura</i> var. <i>argentea</i> / <i>Acacia aneura</i> var. <i>intermedia</i> sparse low woodland or emergent trees, over <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Solanum</i> spp., chenopods and mixed tussock grassland.			
Veg Condition	Pristine			
Fire	None evident			
Notes	Sparse leaf litter, mainly under shrubs and sparse wood litter			

Species List:

Trees < 5 metres	<i>Acacia aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs 1-2 metres	<i>Eremophila serrulata</i>
Shrubs 0.5-1 metres	<i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Abutilon otocarpum</i> , <i>Chrysocephalum puteale</i> , <i>Maireana integra</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Sclerolaena diacantha</i> , <i>Solanum centrale</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Eriochloa</i> sp., <i>Monachather paradoxus</i>
Herbs	<i>Haloragis trigonocarpa</i> , <i>Podolepis capillaris</i> , <i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i> , <i>Ptilotus polystachyus</i>
Twiners	<i>Rhyncharrhena linearis</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 82

Described CCS Date 15/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 663308 mE 6770484 mN
Habitat Wetland / salt flat boundary / surround
Soil red sandy-clay
Rock Type No rocks
Vegetation Mixed scattered emergent *Acacia aneura* var. *aneura* / *Acacia aneura* var. *argentea*, over moderately dense medium shrubland, over mixed Chenopods and mixed grasses.
Veg Condition Pristine
Fire None evident
Notes Plentiful leaf litter, mainly under shrubs and plentiful wood litter

Species List:

Trees < 5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i>
Shrubs 1-2 metres	<i>Melaleuca interioris</i>
Shrubs <0.5 metres	<i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Eriachne</i> sp., <i>Aristida contorta</i> , <i>Enneapogon caerulescens</i> , <i>Eragrostis dielsii</i>
Herbs	<i>Atriplex vesicaria</i> , <i>Maireana</i> sp., <i>Ptilotus polystachyus</i> , <i>Salsola australis</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 83

Described CJM Date 15/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 663519 mE 6770334 mN
Habitat Clay pan
Soil pale orange clay
Rock Type No rocks
Vegetation Sparse *Muehlenbeckia florulenta* over low sparse shrubland dominated by *Atriplex vesicaria* /
Frankenia fecunda over soft grasses.
Veg Condition Pristine
Fire None evident
Notes Sparse leaf litter, only under shrubs and negligible wood litter

Species List:

Shrubs 1-2 metres	<i>Muehlenbeckia florulenta</i>
Shrubs <0.5 metres	<i>Atriplex vesicaria</i> , <i>Frankenia fecunda</i> , <i>Tecticornia</i> aff. <i>undulata</i> , <i>Salsola australis</i> , <i>Sclerolaena convexula</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Austrostipa elegantissima</i> , <i>Eragrostis dielsii</i>
Herbs	<i>Dysphania kalpari</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 86

Described CCS Date 14/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 661366 mE 6769843 mN
Habitat Hill crest
Soil White to pale pink clay
Rock Type No rocks
Vegetation *Callitris columellaris* open low woodland, over *Eucalyptus horistes* sparse medium mallee.
Veg Condition Poor
Fire None evident
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Callitris columellaris, Eucalyptus horistes</i>
Shrubs 1-2 metres	<i>Anthobolus leptomerioides</i>
Shrubs <0.5 metres	<i>Atriplex ?vesicaria, Chenopodium desertorum</i> subsp. <i>rectum</i>
Herbs	<i>Sclerolaena fimbriolata, Zygodphyllum aurantiacum</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 92

Described CCS Date 14/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 661606 mE 6769897 mN
Habitat Lower hill slope
Soil Red-orange / sandy clay
Rock Type No rocks
Vegetation *Acacia burkittii* / *Senna artemisioides* subsp. *petiolaris* open tall shrubland.
Veg Condition Pristine
Fire None evident
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Shrubs >2 metres	<i>Acacia burkittii</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs 1-2 metres	<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>
Shrubs 0.5-1 metres	<i>Eremophila decipiens</i> subsp. <i>decipiens</i> , <i>Rhagodia eremaea</i>
Shrubs <0.5 metres	<i>Atriplex</i> sp., <i>Atriplex vesicaria</i> , <i>Maireana villosa</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Solanum ?lasiophyllum</i> , <i>Solanum orbiculatum</i> , <i>Solanum</i> sp.
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon cylindricus</i> , <i>Eriachne</i> sp.
Herbs	<i>Salsola australis</i>
Twiners	<i>Rhyncharrhena linearis</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 95

Described CJM Date 11/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 646468 mE 6758411 mN
 Habitat Dune crest and dune side
 Soil Red-orange sand
 Rock Type No rocks
 Vegetation *Eucalyptus gongylocarpa*, over open to moderately dense *Thryptomene biseriata* dominated shrubland, over sparse *Triodia desertorum* hummock grass.
 Veg Condition Excellent
 Fire Old
 Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees < 5 metres	<i>Eucalyptus gongylocarpa</i> , <i>Eucalyptus youngiana</i>
Shrubs >2 metres	<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>
Shrubs 1-2 metres	<i>Acacia colletioides</i> , <i>Acacia ligulata</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Duboisia hopwoodii</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Hakea francisiana</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Thryptomene biseriata</i>
Shrubs 0.5-1 metres	<i>Grevillea juncifolia</i> subsp. <i>temulenta</i> , <i>Olearia subspicata</i>
Shrubs <0.5 metres	<i>Anthotroche pannosa</i> , <i>Pityrodia loricata</i> , <i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 96

Described CCS Date 11/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 646081 mE 6760671 mN
Habitat Undulating plain / gentle slope
Soil Pale orange sandy-clay
Rock Type No rocks
Vegetation *Eucalyptus oleosa* subsp. *oleosa* / *Eucalyptus concinna* medium mallee, over *Acacia eremophila* var. *variabilis*, over sparse dwarf shrubs, over moderately dense *Triodia* sp. hummock grassland.
Veg Condition Pristine
Fire Old
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Eucalyptus concinna</i> , <i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>
Shrubs <0.5 metres	<i>Acacia colletioides</i> , <i>Acacia eremophila</i> var. <i>variabilis</i> , <i>Anthobolus leptomerioides</i> , <i>Eremophila paisleyi</i> subsp. <i>paisleyi</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Hummock grasses	<i>Triodia</i> sp.(indeterminant)



Phase 1 Site Descriptions Tropicana Operational Area Site 97

Described CJM Date 11/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 646090 mE 6760843 mN
Habitat Clay pan centre
Soil Pale orange/white
Rock Type No rocks
Vegetation Sparse *Dysphania rhadinostachya* subsp. *rhadinostachya* / *Zygophyllum* sp. herbs and sparse *Enneapogon caeruleus* / *Aristida contorta* grass
Veg Condition Excellent
Notes Negligible leaf and wood litter. Site is mostly desiccated.

Species List:

Shrubs >2 metres	<i>Myoporum platycarpum</i>
Herbs	<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i> , <i>Zygophyllum</i> sp.
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon caeruleus</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 98

Described CCS Date 12/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 641910 mE 9754153 mN
Habitat Dune crest
Soil Pale orange sand
Rock Type No rocks
Vegetation *Eucalyptus gongylocarpa* scattered low trees, over *Anthotroche pannosa* and other mixed shrubs, over scattered *Triodia desertorum* hummock grasses.
Veg Condition Pristine
Fire Moderate
Notes Sparse leaf litter, mainly under shrubs and negligible wood litter

Species List:

Trees < 5 metres	<i>Eucalyptus gongylocarpa</i>
Shrubs 1-2 metres	<i>Thryptomene biseriata</i>
Shrubs 0.5-1 metres	<i>Anthotroche pannosa</i> , <i>Daviesia grahamii</i>
Shrubs <0.5 metres	<i>Bertya dimerostigma</i> , <i>Callitris columellaris</i> , <i>Chrysocephalum puteale</i> , <i>Pityrodia loricata</i> , <i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Aristida contorta</i>
Herbs	<i>Pomax</i> sp. desert (A.S. George 11968)



Phase 1 Site Descriptions Tropicana Operational Area Site 99

Described CJM Date 12/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 642438 mE 6753969 mN
Habitat Plain / flat
Soil Yellow orange sandy clay
Rock Type Ferrous
Vegetation Open to moderately dense *Acacia ramulosa* var. *ramulosa* / *Acacia aneura* var. *argentea*, over variable height low shrubs, dominated by *Aluta maisonneuvei* subsp. *auriculata*, over isolated soft grasses.
Veg Condition Pristine
Fire
Notes Moderate leaf litter, mainly under shrubs and plentiful wood litter

Species List:

Trees < 5 metres	<i>Acacia aneura</i> var. <i>argentea</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i>
Shrubs 1-2 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Prostanthera sericea</i>
Shrubs 0.5-1 metres	<i>Eremophila punctata</i> , <i>Psydrax suaveolens</i>
Hummock grasses	<i>Triodia</i> sp.
Tussock and annual grasses	? <i>Amphipogon caricinus</i> , <i>Eragrostis falcata</i> , <i>Monachather paradoxus</i>
Herbs	<i>Sida</i> sp.



Phase 1 Site Descriptions Tropicana Operational Area Site 100

Described CCS Date 12/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 642156 mE 6752186 mN
Habitat Plain / flat
Soil Red-orange sandy clay
Rock Type Calcrete and ferrous
Vegetation Mixed *Acacia aneura* var. *argentea* / *Acacia aneura* low woodland, over mixed medium *Eucalyptus* mallee low trees, over *Triodia basedowii* open hummock grassland.
Veg Condition Pristine
Fire Moderate
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Acacia aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Eucalyptus effusa</i> , <i>Eucalyptus oleosa</i> subsp. <i>oleosa</i> , <i>Eucalyptus youngiana</i>
Shrubs 0.5-1 metres	<i>Acacia prainii</i>
Shrubs <0.5 metres	<i>Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Herbs	<i>Goodenia xanthosperma</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 101

Described CJM Date 12/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 642189 mE 6752414 mN
 Habitat Dune crest
 Soil Yellow-orange sand
 Rock Type No rocks
 Vegetation *Eucalyptus gongylocarpa* / *Callitris columellaris*, over mixed open low shrubs, over *Lomandra leucocephala* subsp. *robusta* herbs and *Triodia desertorum* hummock grass.
 Veg Condition Pristine
 Fire Moderate
 Notes Negligible leaf litter and sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Trees < 5 metres	<i>Codonocarpus cotinifolius</i> , <i>Callitris columellaris</i> , <i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>
Shrubs 0.5-1 metres	<i>Acacia desertorum</i> var. <i>desertorum</i> , <i>Alyogyne pinoniana</i> , <i>Duboisia hopwoodii</i> , <i>Lomandra leucocephala</i> subsp. <i>robusta</i>
Shrubs <0.5 metres	? <i>Stackhousia</i> sp., <i>Acacia murrayana</i> , <i>Bertya dimerostigma</i> , <i>Dicrastylis</i> sp. <i>Cundeeleensis</i> (D.J. Pearson 101), <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Pityrodia loricata</i> , <i>Scaevola basedowii</i> , <i>Thryptomene biseriata</i>
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Amphipogon caricinus</i> , <i>Aristida holathera</i> var. <i>holathera</i>
Herbs	<i>Commersonia melanopetala</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 102

Described CCS Date 13/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 646436 mE 6761448 mN
Habitat Undulating plain / low rise
Soil Red-orange clayey sand
Rock Type No rocks
Vegetation *Eucalyptus leptopoda* subsp. *elevata* sparse low mallee, over *Acacia desertorum* var. *desertorum* / *Leptosema chambersii* open low shrubland, over *Triodia desertorum* moderately dense *Triodia desertorum* hummock grassland.
Veg Condition Pristine
Fire Moderate
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Eucalyptus leptopoda</i> subsp. <i>elevata</i>
Shrubs 1-2 metres	<i>Grevillea juncifolia</i> subsp. <i>temulenta</i> , <i>Hakea francisiana</i>
Shrubs 0.5-1 metres	<i>Acacia desertorum</i> var. <i>desertorum</i>
Shrubs <0.5 metres	<i>Codonocarpus cotinifolius</i> , <i>Dicrastylis brunnea</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn</i> (B.W. Strong 676), <i>Leptosema chambersii</i> , <i>Petalostylis cassioides</i> , <i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>
Hummock grasses	<i>Triodia desertorum</i>
Herbs	<i>Commersonia melanopetala</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 103

Described CJM Date 13/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 647335 mE 6761522 mN
Habitat Plain / flat
Soil Red-orange sand
Rock Type No rocks
Vegetation *Eucalyptus gamophylla* low woodland, over moderately dense *Callitris* sp, over open *Triodia desertorum* hummock grass.
Veg Condition Excellent
Fire None evident
Notes Moderate leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus gamophylla</i>
Trees < 5 metres	<i>Callitris</i> sp.
Shrubs 1-2 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia colletioides</i>
Shrubs 0.5-1 metres	<i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Acacia prainii</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn</i> (B.W. Strong 676)
Hummock grasses	<i>Triodia desertorum</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 104

Described CCS Date 13/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 646662 mE 6762363 mN
 Habitat Undulating plain
 Soil Red-orange sandy clay
 Rock Type No rocks
 Vegetation *Eucalyptus gongylocarpa* / *Callitris columellaris* open low woodland, over sparse mixed tall shrubs over *Triodia basedowii* hummock grass.
 Veg Condition Pristine
 Fire None evident
 Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Trees < 5 metres	<i>Callitris columellaris</i>
Shrubs >2 metres	<i>Alyxia buxifolia</i> , <i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>
Shrubs 1-2 metres	<i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Eremophila decipiens</i> subsp. <i>decipiens</i> , <i>Pimelea microcephala</i> subsp. <i>microcephala</i>
Shrubs <0.5 metres	<i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Twining	<i>Amyema miquelii</i> , <i>Jasminum didymum</i> subsp. <i>lineare</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 105

Described CJM Date 13/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 646782 mE 6762534 mN
Habitat Shallow dune crest
Soil Red-orange sand
Rock Type No rocks
Vegetation Sparse *Eucalyptus gongylocarpa* tall trees, over open mixed height shrubland dominated by *Thryptomene biseriata* / *Dodonaea viscosa* subsp. *angustissima*, over open *Triodia desertorum* hummock grass.
Veg Condition Pristine
Fire None evident
Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Trees < 5 metres	<i>Callitris columellaris</i>
Shrubs 1-2 metres	<i>Alyxia buxifolia</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Prostanthera althoferi</i> , <i>Thryptomene biseriata</i>
Shrubs <0.5 metres	<i>Anthotroche pannosa</i> , <i>Scaevola basedowii</i> , <i>Westringia rigida</i>
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Eriachne helmsii</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 106

Described CCS Date 1/11/2006 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 646058 mE 6763180 mN
Habitat Broad dune slope
Soil Yellow-orange sand
Rock Type No rocks
Vegetation Moderately dense *Aluta maisonneuvei* subsp. *auriculata* / *Thryptomene biseriata* medium to low shrubland, over *Triodia desertorum* sparse hummock grass.
Veg Condition Pristine
Fire None evident
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus youngiana</i>
Shrubs 1-2 metres	<i>Thryptomene biseriata</i>
Shrubs 0.5-1 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>
Shrubs <0.5 metres	<i>Anthotroche pannosa</i> , <i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963), <i>Grevillea juncifolia</i> subsp. <i>temulenta</i>
Hummock grasses	<i>Triodia desertorum</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 107

Described CJM Date 13/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 643295 mE 6763245 mN
Habitat Dune swale
Soil Red-orange sand
Rock Type No rocks
Vegetation Open *Eucalyptus youngiana* / *Eucalyptus oleosa* subsp. *oleosa* / *Acacia aneura* var. *argentea* low trees, over *Acacia ramulosa* var. *ramulosa* / *Aluta maisonneuvei* subsp. *auriculata* low shrubs, over open *Triodia desertorum* hummock grass.
Veg Condition Pristine
Fire None evident
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>
Trees < 5 metres	<i>Eucalyptus youngiana</i>
Shrubs 1-2 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>
Hummock grasses	<i>Triodia desertorum</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 108

Described CCS Date 13/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 646294 mE 6763151 mN
Habitat Narrow dune crest
Soil Yellow-orange sand
Rock Type No rocks
Vegetation *Sparse Grevillea stenobotrya* sparse tall shrubs, over mixed open low shrubland of dominantly *Thryptomene biseriata* / *Anthotroche pannosa*, over *Triodia desertorum* hummock grass.
Veg Condition Pristine
Fire Moderate
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Grevillea stenobotrya</i>
Shrubs 1-2 metres	<i>Micromyrtus stenocalyx</i>
Shrubs 0.5-1 metres	<i>Thryptomene biseriata</i>
Shrubs <0.5 metres	<i>Acacia aneura</i> var. <i>intermedia</i> , <i>Bertya dimerostigma</i> , <i>Callitris columellaris</i> , <i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i> , <i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia desertorum</i>
Herbs	<i>Lomandra leucocephala</i> subsp. <i>robusta</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 109

Described CJM Date 13/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 647558 mE 6764927 mN
Habitat Hill lower slope
Soil Red-orange sand
Rock Type No rocks
Vegetation Open *Eucalyptus gongylocarpa* / *Eucalyptus horistes* / *Callitris columellaris* low trees, over very sparse shrubs of *Bertya dimerostigma*, over open to moderately dense *Triodia desertorum* hummock grass.
Veg Condition Good
Fire None evident
Notes Moderate leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Trees < 5 metres	<i>Eucalyptus horistes</i> , <i>Hakea francisiana</i>
Shrubs >2 metres	<i>Acacia jamesiana</i>
Shrubs 1-2 metres	<i>Acacia ligulata</i> , <i>Alyxia buxifolia</i>
Shrubs <0.5 metres	<i>Bertya dimerostigma</i> , <i>Callitris columellaris</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn</i> (B.W. Strong 676), <i>Maireana georgei</i> , <i>Scaevola spinescens</i> , <i>Westringia rigida</i>
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Thyridolepis multiculmis</i>
Herbs	<i>Ptilotus drummondii</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 110

Described CCS Date 13/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 647019 mE 6764804 mN
Habitat Narrow dune crest
Soil Yellow sand
Rock Type No rocks
Vegetation Sparse *Acacia jamesiana* tall shrubs, over open *Jacksonia arida* / *Thryptomene biseriata* medium shrubland, over sparse *Triodia desertorum* hummock grass.
Veg Condition Pristine
Fire None evident
Notes Moderate - sparse leaf litter, mainly under shrubs and sparse wood litter. Steep north side and gentle south side.

Species List:

Trees < 5 metres	<i>Acacia jamesiana</i>
Shrubs 1-2 metres	<i>Grevillea acacioides</i> , <i>Jacksonia arida</i> , <i>Thryptomene biseriata</i>
Shrubs 0.5-1 metres	<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963), <i>Dampiera tomentosa</i>
Shrubs <0.5 metres	<i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia desertorum</i>
Herbs	<i>Dampiera ramosa</i>
Sedges	<i>Lepidobolus deserti</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 111

Described CJM Date 13/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 647607 mE 6766766 mN
 Habitat Hill crest
 Soil Red-orange sandy-clay
 Rock Type Ferrous and Granite
 Vegetation Sparse to open mixed *Acacia* spp. shrubland, dominantly *Acacia quadrimarginea* / *Acacia aneura* var. *argentea* / *Acacia aneura* var. *aneura*, over scattered soft grasses.
 Veg Condition Excellent

Species List:

Trees < 5 metres	<i>Acacia aneura</i> var. <i>aneura</i>
Shrubs 1-2 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia quadrimarginea</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Santalum spicatum</i>
Shrubs 0.5-1 metres	<i>Dodonaea rigida</i> , <i>Sida calyxhymenia</i> , <i>Solanum orbiculatum</i>
Shrubs <0.5 metres	<i>Acacia sibirica</i> , <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eragrostis eriopoda</i> , <i>Eragrostis pergracilis</i> , <i>Eragrostis</i> sp., <i>Eriachne helmsii</i> , <i>Eriachne mucronata</i> (desert form), <i>Eriachne pulchella</i> subsp. <i>pulchella</i>
Herbs	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i> , <i>Goodenia occidentalis</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 112

Described CCS Date 13/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 647629 mE 6766746 mN
Habitat Rocky slope
Soil Pale-orange/sandy-clay
Rock Type Sandstone
Vegetation Mixed moderately dense *Acacia aneura* var. *argentea* / *Acacia aneura* var. *intermedia* low woodland over moderately dense mixed high shrubs of dominantly *Eremophila latrobei* subsp. *latrobei* / *Dodonaea rigida*, over *Triodia basedowii* hummock grass.
Veg Condition Excellent
Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees < 5 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs 1-2 metres	<i>Acacia quadrimarginea</i> , <i>Eremophila georgei</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Psydrax suaveolens</i>
Shrubs 0.5-1 metres	<i>Dodonaea rigida</i> , <i>Sida calyxhymenia</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Eragrostis eriopoda</i> , <i>Eriachne mucronata</i> (desert form)
Herbs	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 113

Described CJM Date 13/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 647800 mE 6766758 mN
Habitat Gully base
Soil Brown sandy clay
Rock Type Granite
Vegetation Open *Acacia aneura* var. *aneura* low trees, over moderately dense *Acacia quadrimarginea* high shrubs, over open *Ptilotus obovatus* var. *obovatus* low shrubs, over sparse mixed grasses.
Veg Condition Pristine
Notes Widespread leaf litter, and plentiful wood litter

Species List:

Trees < 5 metres	<i>Acacia aneura</i> var. <i>aneura</i>
Shrubs >2 metres	<i>Acacia quadrimarginea</i>
Shrubs 1-2 metres	<i>Senna artemisioides</i> subsp. <i>artemisioides</i> , <i>Sida calyxhymenia</i>
Shrubs 0.5-1 metres	<i>Pittosporum angustifolium</i>
Shrubs <0.5 metres	? <i>Chrysocephalum eremaeum</i> , <i>Maireana villosa</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Solanum ellipticum</i>
Tussock and annual grasses	<i>Austrostipa</i> sp., <i>Enneapogon polyphyllus</i> , <i>Eragrostis pergracilis</i>
Herbs	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>
Twiners	<i>Jasminum</i> sp., <i>Marsdenia australis</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 114

Described CCS Date 13/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 467884 mE 6766727 mN
Habitat Rocky breakaway slope
Soil Pale orange sandy clay
Rock Type Sandstone
Vegetation Open *Acacia quadrimarginea* tall shrubland, over open *Senna artemisioides* subsp. *artemisioides* medium shrubs, over mixed soft grasses.
Veg Condition Pristine
Fire None evident
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Shrubs >2 metres	<i>Acacia quadrimarginea</i>
Shrubs 1-2 metres	<i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Senna artemisioides</i> subsp. <i>artemisioides</i> , <i>Sida calyxhymenia</i>
Shrubs 0.5-1 metres	<i>Dodonaea rigida</i>
Shrubs <0.5 metres	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
Tussock and annual grasses	<i>Eragrostis pergracilis</i>
Herbs	<i>Chenopodium melanocarpum</i> forma <i>melanocarpum</i>
Twining	<i>Marsdenia australis</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 115

Described CJM Date 14/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 654516 mE 6765397 mN
 Habitat Lower hill slope
 Soil Red-orange sandy-clay
 Rock Type Ferrous, calcrete, Granite
 Vegetation Sparse to open *Casuarina pauper* low trees, over open mixed high shrubland of dominantly *Scaevola spinescens* / *Senna artemisioides* subsp. *filifolia* / *Dodonaea lobulata*, over low shrubs of *Maireana sedifolia* / *Olearia muelleri* / *Ptilotus obovatus* var. *obovatus*, over sparse *Enneapogon caerulescens* soft grass.
 Veg Condition Pristine
 Fire None evident
 Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees < 5 metres	<i>Casuarina pauper</i>
Shrubs >2 metres	<i>Eremophila georgei</i>
Shrubs 1-2 metres	<i>Dodonaea lobulata</i> , <i>Eremophila scoparia</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i>
Shrubs 0.5-1 metres	<i>Acacia tetragonophylla</i> , <i>Scaevola spinescens</i>
Shrubs <0.5 metres	<i>Maireana sedifolia</i> , <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Sclerolaena diacantha</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Solanum lasiophyllum</i> , <i>Zygophyllum eremaeum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Austrostipa platychaeta</i> , <i>Enneapogon caerulescens</i>
Herbs	<i>Sida calyxhymenia</i>
Twiners	<i>Marsdenia australis</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 116

Described CCS Date 14/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 654612 mE 6765617 mN
 Habitat Hill crest
 Soil Pale orange loamy clay
 Rock Type Sandstone
 Vegetation Mixed *Acacia aneura* var. *argentea* / *Acacia aneura* var. *intermedia* tall shrubland, over sparse mixed low shrubs and open soft grasses.
 Veg Condition Pristine
 Fire None evident
 Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Shrubs >2 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs 1-2 metres	<i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Sida arenicola</i>
Shrubs 0.5-1 metres	<i>Chenopodium gaudichaudianum</i> , <i>Rhagodia eremaea</i> , <i>Senna artemisioides</i> subsp. <i>artemisioides</i> , <i>Spartothamnella teucriflora</i>
Shrubs <0.5 metres	<i>Maireana</i> sp., <i>Maireana tomentosa</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Solanum centrale</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Enneapogon</i> sp., <i>Eragrostis pergracilis</i> , <i>Eriachne mucronata</i> (desert form)
Herbs	<i>Chrysocephalum puteale</i> , <i>Erodium</i> sp., <i>Euphorbia</i> sp., <i>Nicotiana</i> sp., <i>Sida spodochroma</i>
Twiners	<i>Amyema fitzgeraldii</i> , <i>Lysiana murrayi</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 117

Described CJM Date 14/11/200 Type: QUADRAT 20 X 20
 MGA Zone 51 654611 mE 6763065 mN
 Habitat Plain/flat
 Soil Red-orange clay loam
 Rock Type Calcrete and Quartz
 Vegetation Sparse Casuarina pauper medium trees, over sparse *Eremophila scoparia* high shrubs, over sparse *Maireana sedifolia* / *Ptilotus obovatus* var. *obovatus* low shrubs, over scattered soft grasses.
 Veg Condition Excellent
 Fire None evident
 Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees 5-15 metres	<i>Casuarina pauper</i>
Shrubs 1-2 metres	<i>Acacia sibirica</i> , <i>Eremophila scoparia</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs 0.5-1 metres	<i>Chenopodium desertorum</i> , <i>Sida patrovirens</i> , <i>Sida</i> sp.
Shrubs <0.5 metres	<i>Maireana sedifolia</i> , <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Sclerolaena diacantha</i> , <i>Sida fibulifera</i> , <i>Solanum centrale</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Austrostipa platychaeta</i> , <i>Enneapogon caeruleus</i> , <i>Enneapogon cylindricus</i> , <i>Eriachne helmsii</i> , <i>Eriachne</i> sp., <i>Eriochloa</i> sp.
Herbs	<i>Brachyscome</i> sp.
Twiners	<i>Marsdenia australis</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 118

Described CCS Date 14/11/200 Type: QUADRAT 20 X 20
 MGA Zone 51 654573 mE 6764927 mN
 Habitat Plain/flat
 Soil Red clay loam
 Rock Type No rocks
 Vegetation Open *Casuarina pauper* medium woodland, over *Acacia burkittii* / *Senna artemisioides* subsp. *petiolaris* tall to medium shrubs, over open *Maireana sedifolia* low shrubs and mixed grasses.
 Veg Condition Pristine
 Fire None evident
 Notes Moderate leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees 5-15 metres	<i>Casuarina pauper</i>
Trees < 5 metres	<i>Santalum spicatum</i>
Shrubs >2 metres	<i>Acacia burkittii</i>
Shrubs 1-2 metres	<i>Acacia tetragonophylla</i> , <i>Eremophila georgei</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Sida calyxhymenia</i>
Shrubs 0.5-1 metres	<i>Dodonaea lobulata</i> , <i>Maireana sedifolia</i> , <i>Rhagodia eremaea</i>
Shrubs <0.5 metres	<i>Abutilon ?oxycarpum</i> , <i>Maireana tomentosa</i> , <i>Maireana villosa</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Ptilotus</i> sp.
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Austrostipa platychaeta</i> , <i>Enneapogon polyphyllus</i> , <i>Eriochloa</i> sp., <i>Themeda triandra</i>
Herbs	<i>Euphorbia drummondii</i> , <i>Ptilotus</i> sp. 2
Twiners	, ? <i>Convolvulus remotus</i> , <i>Marsdenia australis</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 119

Described CJM Date 14/11/200 Type: QUADRAT 20 X 20
MGA Zone 51 655666 mE 6763535 mN
Habitat Plain / flat
Soil Red-orange clay
Rock Type Calcrete and Quartz
Vegetation Open to moderately dense *Acacia aneura* varieties low trees, over open *Ptilotus obovatus* var. *obovatus* / *Dissocarpus paradoxus* low shrubs, over mixed soft grass sp.
Veg Condition Excellent
Fire None evident
Notes Sparse leaf litter, mainly under shrubs and plentiful wood litter

Species List:

Shrubs 1-2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia aneura</i> var. <i>intermedia</i> , <i>Acacia oswaldii</i> , <i>Eremophila georgei</i> , <i>Rhagodia eremaea</i>
Shrubs 0.5-1 metres	<i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Sida calyxhymenia</i>
Shrubs <0.5 metres	<i>Frankenia fecunda</i> , <i>Maireana</i> sp., <i>Maireana tomentosa</i> , <i>Maireana triptera</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Solanum lasiophyllum</i> , <i>Spartothamnella teucriflora</i>
Tussock and annual grasses	<i>Eragrostis setifolia</i> , <i>Eriochloa</i> sp.
Herbs	<i>Brunonia australis</i> , <i>Euphorbia drummondii</i> , <i>Maireana tomentosa</i> , <i>Ptilotus exaltatus</i> var. <i>villosus</i> , <i>Salsola australis</i> , <i>Sclerolaena diacantha</i> , <i>Sclerolaena fimbriolata</i> , <i>Zygophyllum eremaeum</i>
Twiners	<i>Chenopodium</i> sp., <i>Rhyncharrhena linearis</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 120

Described CCS Date 14/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 663688 mE 6763544 mN
Habitat Plain / flat
Soil Red sandy-clay
Rock Type No rocks
Vegetation Sparse *Acacia aneura* var. *argentea*, low woodland, over sparse low shrubs, over open mixed soft grasses.
Veg Condition Pristine
Fire None evident
Notes Negligible leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Acacia aneura</i> var. <i>argentea</i>
Shrubs <0.5 metres	<i>Eremophila gilesii</i> subsp. <i>variabilis</i> , <i>Maireana ?villosa</i> , <i>Solanum lasiophyllum</i>
Herbs	<i>Chrysocephalum puteale</i> , <i>Euphorbia drummondii</i> , <i>Sclerolaena convexula</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 121

Described CJM Date 14/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 661648 mE 6769717 mN
Habitat Clay pan
Soil Pale orange clay
Rock Type No rocks
Vegetation Moderately dense dwarf shrubland of *Atriplex vesicaria* / *Frankenia fecunda*, over scattered
Dysphania kalpari and *Eragrostis pergracilis* grasses.
Veg Condition Pristine
Fire None evident
Notes Negligible leaf and wood litter

Species List:

Shrubs <0.5 metres	<i>Atriplex ?vesicaria</i> , <i>Frankenia fecunda</i>
Tussock and annual grasses	<i>Eragrostis pergracilis</i> , <i>Tripogon loliiformis</i>
Herbs	<i>Dysphania kalpari</i> , <i>Lawrencia ?glomerata</i> , <i>Swainsona sp.</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 122

Described CCS Date 15/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 663856 mE 6770328 mN
Habitat Hill crest / slope
Soil White clay
Rock Type Koolinite
Vegetation Open *Eucalyptus horistes* tall mallee, over open mixed low shrubs.
Veg Condition Pristine
Fire None evident
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus horistes</i>
Shrubs <0.5 metres	<i>Atriplex nummularia</i> , <i>Rhagodia ?eremaea</i> , <i>Sclerolaena eriacantha</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Zygophyllum</i> sp.
Tussock and annual grasses	<i>Austrostipa elegantissima</i> , <i>Austrostipa platychaeta</i>
Herbs	? <i>Lawrenca</i> sp., <i>Zygophyllum ?glaucum</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 123

Described CJM Date 14/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 661713 mE 6769527 mN
 Habitat Mid hill slope
 Soil Red-orange sandy clay
 Rock Type No rocks
 Vegetation Open *Eucalyptus horistes* medium trees, over sparse *Senna artemisioides* subsp. *petiolaris* high shrubs, over open to moderately dense *Triodia* sp hummock grass.
 Veg Condition Pristine
 Fire None evident
 Notes Plentiful leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus horistes</i>
Trees < 5 metres	<i>Alectryon oleifolius</i> subsp. <i>canescens</i>
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Eremophila decipiens</i> subsp. <i>decipiens</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Chenopodium desertorum</i> subsp. <i>rectum</i> , <i>Maireana ?villosa</i> , <i>Sclerolaena eriacantha</i>
Hummock grasses	<i>Triodia</i> sp.(indeterminant)
Tussock and annual grasses	? <i>Urochloa piligera</i> , <i>Aristida contorta</i> , <i>Paspalidium basicladum</i>
Herbs	<i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Zygophyllum eremaeum</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 124

Described CCS Date 15/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 665300 mE 6759055 mN
 Habitat Plain / flat
 Soil Red sandy loam
 Rock Type No rocks
 Vegetation Sparse *Eucalyptus gongylocarpa* medium woodland, over open *Acacia aneura* var. *intermedia* low woodland / *Eucalyptus trivalva* medium mallee, over open *Triodia basedowii* hummock grass.
 Veg Condition
 Fire None evident
 Notes Moderate leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Trees < 5 metres	<i>Acacia aneura</i> var. <i>intermedia</i> , <i>Eucalyptus trivalva</i>
Shrubs >2 metres	<i>Acacia ramulosa</i> var. <i>ramulosa</i>
Shrubs 1-2 metres	<i>Eremophila latrobei</i> subsp. <i>filiformis</i> , <i>Psydrax suaveolens</i>
Shrubs 0.5-1 metres	<i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Chenopodium gaudichaudianum</i> , <i>Maireana villosa</i> , <i>Rhagodia eremaea</i> , <i>Solanum lasiophyllum</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Eriachne helmsii</i> , <i>Monachather paradoxus</i> , <i>Triraphis mollis</i>
Herbs	<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 125

Described CJM Date 14/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 662406 mE 6766908 mN
 Habitat Plain / flat
 Soil Red-orange sandy-clay
 Rock Type No rocks
 Vegetation Open *Eucalyptus concinna* trees, over mixed open shrubland dominated by *Senna artemisioides* subsp. *filifolia* / *Scaevola spinescens*, over sparse mixed soft grasses.
 Veg Condition Pristine
 Fire None evident
 Notes Moderate leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees < 5 metres	<i>Eucalyptus concinna</i>
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Acacia oswaldii</i> , <i>Acacia tetragonophylla</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i>
Shrubs 0.5-1 metres	<i>Olearia muelleri</i>
Shrubs <0.5 metres	<i>Maireana tomentosa</i> , <i>Maireana integra</i> , <i>Maireana sp.</i> , <i>Maireana tomentosa</i> , <i>Maireana triptera</i> , <i>Sida spodochroma</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Austrostipa sp.</i> , <i>Monachather paradoxus</i> , <i>Paspalidium basicladum</i> , <i>Tripogon loliiformis</i>
Herbs	<i>Ptilotus exaltatus</i> var. <i>villosus</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i>
Twiners	<i>Marsdenia australis</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 126

Described CCS Date 15/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 642398 mE 6751683 mN
 Habitat Dune crest
 Soil Yellow sand
 Rock Type No rocks
 Vegetation Scattered *Eucalyptus gongylocarpa* low trees, over open mixed low shrubland of *Anthotroche pannosa* / *Pityrodia loricata* / *Dicrasyllis nicholasii* (Priority 2), over sparse *Lomandra leucocephala* subsp. *robusta* herbs and sparse *Triodia basedowii* hummock grass.
 Veg Condition Pristine
 Fire Moderate
 Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Callitris columellaris</i> , <i>Codonocarpus cotinifolius</i> , <i>Eucalyptus gongylocarpa</i>
Shrubs <0.5 metres	<i>Acacia desertorum</i> var. <i>desertorum</i> , <i>Anthotroche pannosa</i> , <i>Bertya dimerostigma</i> , <i>Commersonia melanopetala</i> , <i>Dicrasyllis nicholasii</i> , <i>Dicrasyllis</i> sp. <i>Cundeeleensis</i> (D.J. Pearson 101), <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Pityrodia loricata</i> , <i>Scaevola basedowii</i> , <i>Thryptomene biseriata</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Amphipogon caricinus</i>
Herbs	<i>Lomandra leucocephala</i> subsp. <i>robusta</i>
Sedges	<i>Lepidobolus deserti</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 127

Described CJM Date 15/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 663517 mE 6770396 mN
Habitat Clay pan
Soil Red-orange cracked clay
Rock Type No rocks
Vegetation Low open shrubland dominated *Tecticornia* ?aff. *undulata* / *Frankenia fecunda*, over open soft grasses.
Veg Condition Pristine
Fire
Notes Negligible wood and leaf litter

Species List:

Shrubs <0.5 metres	<i>Frankenia fecunda</i> , <i>Tecticornia</i> ?aff. <i>undulata</i>
Hummock grasses	<i>Triodia mollis</i>
Tussock and annual grasses	, <i>Aristida contorta</i> , <i>Bulbostylis barbata</i> , <i>Centrolepis eremica</i> , <i>Enneapogon caerulescens</i> , <i>Eragrostis eriopoda</i> , <i>Eragrostis pergracilis</i> , <i>Spergularia rubra</i>
Herbs	<i>Velleia hispida</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 128

Described CCS Date 15/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 643714 mE 6753178 mN
 Habitat Undulating plain
 Soil Red-orange sand
 Rock Type No rocks
 Vegetation Open *Eucalyptus ?carnei* low woodland over open low shrubs over sparse soft grasses and *Triodia basedowii*
 Veg Condition Pristine
 Fire Very recent
 Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Eucalyptus ?carnei</i>
Shrubs 1-2 metres	<i>Duboisia hopwoodii</i>
Shrubs 0.5-1 metres	<i>Eremophila decipiens</i> subsp. <i>decipiens</i>
Shrubs <0.5 metres	<i>Acacia burkittii</i> , <i>Bertya dimerostigma</i> , <i>Dicrastylis brunnea</i> , <i>Dicrastylis nicholasii</i> , <i>Eremophila platycalyx</i> subsp. <i>platycalyx</i> , <i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Amphipogon caricinus</i> var. <i>caricinus</i> , <i>Aristida contorta</i> , <i>Aristida holathera</i> var. <i>holathera</i> , <i>Eragrostis eriopoda</i> , <i>Eriachne helmsii</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 129

Described CJM Date 15/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 664492 mE 6759348 mN
 Habitat Plain / flat
 Soil Red-orange sandy clay
 Rock Type No rocks
 Vegetation Isolated *Acacia aneura* var. *aneura* low trees, over isolated mixed height shrubs, over open to moderately dense mixed soft grasses and *Sclerolaena convexula*
 Veg Condition Pristine
 Fire None evident
 Notes Negligible leaf and wood litter

Species List:

Trees < 5 metres	<i>Acacia aneura</i> var. <i>aneura</i>
Shrubs <0.5 metres	<i>Abutilon otocarpum</i> , <i>Acacia aneura</i> var. <i>aneura</i> , <i>Enchylaena tomentosa</i> var. <i>tomentosa</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Sida ?atrovirens</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>
Tussock and annual grasses	? <i>Amphipogon caricinus</i> , <i>Aristida contorta</i> , <i>Aristida holathera</i> var. <i>holathera</i> , <i>Eragrostis eriopoda</i> , <i>Monachather paradoxus</i>
Herbs	<i>Minuria tridens</i> , <i>Podolepis capillaris</i> , <i>Salsola australis</i> , <i>Sclerolaena convexula</i> , <i>Solanum plicatile</i> , <i>Vittadinia eremaea</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 130

Described CCS Date 15/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 648049 mE 6761110 mN
Habitat Undulating plain
Soil Orange clayey sand
Rock Type No rocks
Vegetation Sparse *Eucalyptus leptopoda* subsp. *elevata* low mallee, over moderately dense *Acacia jamesiana* medium shrubland, over open *Triodia desertorum* hummock grassland.
Veg Condition Pristine
Fire Moderate
Notes Moderate leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Eucalyptus leptopoda</i> subsp. <i>elevata</i>
Shrubs 1-2 metres	<i>Acacia jamesiana</i> , <i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963), <i>Duboisia hopwoodii</i>
Shrubs <0.5 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963), <i>Bertya dimerostigma</i> , <i>Leptospermum fastigiatum</i>
Hummock grasses	<i>Triodia desertorum</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 131

Described CJM Date 15/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 642745 mE 6752045 mN
 Habitat Plain / flat
 Soil Red-orange sandy clay
 Rock Type Ferrous
 Vegetation Moderately dense *Acacia aneura* var. *aneura* low woodland, over sparse *Psyrax suaveolens* / *Acacia aneura* var. *aneura* / *Aluta maisonneuvei* subsp. *auriculata* / *Eremophila latrobei* subsp. *filiformis* high shrubs, over sparse *Triodia basedowii* hummock grass.
 Veg Condition Pristine
 Fire None evident
 Notes Plentiful leaf litter, mainly under shrubs and plentiful wood litter. This site has a very sparse shrub layer, but only 75m away is a moderately dense shrubland of Myrtaceous species

Species List:

Trees < 5 metres	<i>Acacia aneura</i> var. <i>argentea</i>
Shrubs 1-2 metres	<i>Acacia ramulosa</i> var. <i>linophylla</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Eremophila latrobei</i> subsp. <i>filiformis</i> , <i>Psyrax suaveolens</i>
Shrubs 0.5-1 metres	<i>Eremophila forrestii</i>
Shrubs <0.5 metres	<i>Prostanthera sericea</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eragrostis eriopoda</i> , <i>Monachather paradoxus</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 132

Described CCS Date 16/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 645909 mE 6759043 mN
Habitat Undulating plain
Soil Red-orange clayey sand
Rock Type No rocks
Vegetation Open *Eucalyptus trivalva* high mallee trees, over open mixed low shrubs, over open *Triodia basedowii* hummock grass.
Veg Condition Pristine
Fire Old
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees < 5 metres	<i>Eucalyptus trivalva</i>
Shrubs 1-2 metres	<i>Grevillea juncifolia</i> subsp. <i>temulenta</i>
Shrubs 0.5-1 metres	<i>Acacia desertorum</i> var. <i>desertorum</i>
Shrubs <0.5 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia prainii</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Dicrastylis nicholasii</i> , <i>Eremophila platycalyx</i> subsp. <i>platycalyx</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Prostanthera althoferi</i> subsp. <i>althoferi</i>
Hummock grasses	<i>Triodia basedowii</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 133

Described CJM Date 15/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 643826 mE 6752539 mN
Habitat Hill slope
Soil Red-orange/sandy-clay
Rock Type No rocks
Vegetation Open *Eucalyptus trivalva* tall mallee sp, over open mixed height shrub layer, over open *Triodia desertorum* hummock grass.
Veg Condition Excellent
Fire Old
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Mallees <5 metres	<i>Eucalyptus trivalva</i>
Shrubs 1-2 metres	<i>Acacia jamesiana</i> , <i>Hakea francisiana</i>
Shrubs <0.5 metres	<i>Acacia murrayana</i> , <i>Acacia prainii</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Bertya dimerostigma</i> , <i>Callitris sp.</i> , <i>Senna pleurocarpa</i> var. <i>pleurocarpa</i> , <i>Westringia rigida</i>
Hummock grasses	<i>Triodia desertorum</i>
Herbs	<i>Chrysocephalum apiculatum</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 134

Described CCS Date 16/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 657547 mE 6762519 mN
 Habitat Undulating plain
 Soil Red sandy clay
 Rock Type Calcrete / gravel
 Vegetation Moderately dense *Eucalyptus concinna* tall mallee trees, over mixed shrub layer of *Senna artemisioides* subsp. *petiolaris* / *Ptilotus obovatus* var. *obovatus* low shrubs, over open *Triodia basedowii* hummock grass.
 Veg Condition Pristine
 Fire None evident
 Notes Moderate leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus concinna</i>
Trees < 5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Alectryon oleifolius</i> subsp. <i>canescens</i>
Shrubs >2 metres	<i>Acacia oswaldii</i>
Shrubs 1-2 metres	<i>Acacia sibirica</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs 0.5-1 metres	<i>Eremophila decipiens</i> subsp. <i>decipiens</i> , <i>Maireana sedifolia</i>
Shrubs <0.5 metres	<i>Maireana tomentosa</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Senna artemisioides</i> subsp. <i>artemisioides</i> , <i>Solanum centrale</i> , <i>Solanum orbiculatum</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Paspalidium</i> sp.
Herbs	<i>Zygophyllum apiculatum</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 135

Described CJM Date 16/11/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 645266 mE 6757336 mN
 Habitat Dune crest
 Soil Red-orange sandy clay
 Rock Type No rocks
 Vegetation Sparse *Eucalyptus youngiana* tall mallee tree, over open mixed *Grevillea juncifolia* / *Olearia subspicata* / *Acacia murrayana* / *Grevillea juncifolia* high shrubs, over sparse *Thryptomene biseriata* / *Anthotroche pannosa* low shrubs, over sparse *Lomandra leucocephala* subsp. *robusta* sedge and *Triodia desertorum* hummock grass.
 Veg Condition Pristine
 Fire
 Notes Moderate leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees < 5 metres	<i>Callitris columellaris</i> , <i>Eucalyptus youngiana</i>
Shrubs >2 metres	<i>Grevillea juncifolia</i>
Shrubs 1-2 metres	<i>Acacia murrayana</i> , <i>Olearia subspicata</i> , <i>Thryptomene biseriata</i>
Shrubs 0.5-1 metres	<i>Acacia ligulata</i> , <i>Acacia prainii</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i>
Shrubs <0.5 metres	<i>Alyogyne pinoniana</i> , <i>Anthotroche pannosa</i> , <i>Thryptomene biseriata</i>
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i>
Herbs	<i>Commersonia melanopetala</i>
Sedges	<i>Lomandra leucocephala</i> subsp. <i>robusta</i>



Phase 1 Site Descriptions Tropicana Operational Area Site 137

Described CJM Date 16/11/200 Type: QUADRAT 20 X 20
Location Tropicana
MGA Zone 51 657033 mE 6762599 mN
Habitat Plain
Soil Red-orange / sandy clay
Rock Type No rocks
Vegetation Open *Eucalyptus effusa* medium trees, over sparse mixed height shrub layer, over open *Triodia basedowii* hummock grass.
Veg Condition Pristine
Fire Moderate
Notes Moderate leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees < 5 metres	<i>Eucalyptus effusa</i>
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Acacia tetragonophylla</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Eremophila latrobei</i> subsp. <i>filiformis</i> , <i>Sclerolaena diacantha</i> , <i>Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Eragrostis eriopoda</i> , <i>Monachather paradoxus</i> , <i>Paspalidium basicladum</i>
Herbs	<i>Dicrasyllis brunnea</i> , <i>Maireana tomentosa</i> , <i>Ptilotus exaltatus</i> var. <i>villosus</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Zygophyllum</i> sp.



Phase 1 Site Descriptions Tropicana Operational Area Site 139

Described CJM Date 16/06/200 Type: QUADRAT 20 X 20
 Location Tropicana
 MGA Zone 51 649335 mE 6759909 mN
 Habitat Upper hill slope
 Soil Pale orange sandy clay
 Rock Type Ferrous, granite and Quartz
 Vegetation Scattered *Acacia aneura* var. *aneura* medium trees, over scattered *Acacia aneura* var. *aneura* / *Senna artemisioides* subsp. *artemisioides* high shrubs *Ptilotus obovatus* var. *obovatus* mixed shrubs, over open soft grasses.
 Veg Condition Pristine
 Notes Negligible leaf litter and sparse wood litter

Species List:

Trees < 5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Casuarina pauper</i>
Shrubs >2 metres	<i>Eremophila oppositifolia</i>
Shrubs 1-2 metres	<i>Dodonaea lobulata</i> , <i>Pimelea microcephala</i> subsp. <i>microcephala</i>
Shrubs 0.5-1 metres	<i>Senna artemisioides</i> subsp. <i>artemisioides</i>
Shrubs <0.5 metres	<i>Acacia tetragonophylla</i> , <i>Maireana tomentosa</i> , <i>Maireana triptera</i> , <i>Scaevola spinescens</i>
Tussock and annual grasses	<i>Enneapogon caerulescens</i> , POACEAE sp.
Herbs	<i>Atriplex ?vesicaria</i> , <i>Goodenia occidentalis</i> , <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Sclerolaena patenticuspis</i>



Appendix G Site descriptions Phase 2



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Phase 2 Site Descriptions Tropicana Operational Area Site 01

Described CJM Date 9/11/2006 Type: Quadrat 20 x 20
Uniformity Repeat site
Location Tropicana
MGA Zone 51 651503 mE 6765025 mN
Habitat Flat/Plain with negligible slope
Soil Red/orange clay loam
Vegetation Moderately dense *Acacia aneura* var. *aneura* tall shrubs over sparse *Eremophila exilis* low shrubs over isolated *Eragrostis setifolia* soft grasses.
Veg Condition Good
Fire 1-5 years
Notes Moderate leaf litter, mainly under shrubs

Species List:

Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia ayersiana</i>
Shrubs 1-2 metres	<i>Eremophila latrobei</i> subsp. <i>latrobei</i>
Shrubs 0.5-1 metres	<i>Eremophila exilis</i>
Shrubs <0.5 metres	<i>Atriplex nummularia</i> , <i>Solanum lasiophyllum</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eragrostis setifolia</i> , <i>Monachather paradoxus</i>



Phase 2 Site Descriptions Tropicana Operational Area Site 02

Described CJM Date 9/11/2007 Type: Quadrat 20 x 20
 Uniformity Repeat site
 Location Tropicana
 MGA Zone 50 653076 mE 6763446 mN
 Habitat Ridge top gentle slope
 Soil Red-orange sandy clay
 Rock Type Granite
 Vegetation Open *Casuarina pauper* low to medium trees over open *Acacia aneura* var. *tenuis* tall shrubs over moderately dense *Eremophila scoparia* and *Acacia sibirica* medium shrubs over open *Eremophila latrobei* ssp *latrobei*, *Scaevola spinescens* and *Ptilotus obovatus* ssp *obovatus* low shrubs
 Veg Condition Excellent
 Fire 1-5 years
 Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>tenuis</i> , <i>Casuarina pauper</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia ayersiana</i> , <i>Acacia sibirica</i>
Shrubs 1-2 metres	<i>Acacia tetragonophylla</i> , <i>Eremophila scoparia</i> , <i>Santalum spicatum</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i>
Shrubs 0.5-1 metres	<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i> , <i>Dodonaea lobulata</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Maireana sedifolia</i> , <i>Olearia muelleri</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>x artemisioides</i> , <i>Sida calyxhymenia</i>
Shrubs <0.5 metres	<i>Maireana pyramidata</i> , <i>Maireana triptera</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Sclerolaena eriacantha</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>
Tussock and annual grasses	<i>Amphipogon caricinus</i> var. <i>caricinus</i> , <i>Austrostipa platychaeta</i>
Herbs	<i>Ptilotus exaltatus</i>



Phase 2 Site Descriptions Tropicana Operational Area Site 03

Described CCS Date 9/11/2006 Type: Quadrat 20 x 20
 Uniformit Repeat site
 Location Tropicana
 MGA Zone 51 652204 mE 6764279 mN
 Habitat Flat plain
 Soil Red orange, sandy clay
 Vegetation Sparse *Casuarina pauper* medium trees, over open *Senna artemisioides* ssp *petiolaris* medium to low shrubs over open *Ptilotus obovatus* ssp *obovatus* very low shrubs over isolated *Enneapogon polyphyllus* soft grasses.
 Veg Condition Excellent
 Fire 1-5 years
 Notes Moderate leaf litter mainly under shrubs with sparse wood litter

Species List:

Trees 5-15 metres	<i>Casuarina pauper</i>
Trees <5 metres	<i>Alectryon oleifolius</i> subsp. <i>canescens</i> , <i>Santalum spicatum</i>
Mallees	<i>Eucalyptus concinna</i> , <i>Eucalyptus gracilis</i>
Shrubs >2 metres	<i>Eremophila alternifolia</i>
Shrubs 1-2 metres	<i>Acacia oswaldii</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i> , <i>Eremophila scoparia</i> , <i>Rhagodia eremaea</i> , <i>Sida calyxhymenia</i>
Shrubs 0.5-1 metres	<i>Acacia tetragonophylla</i> , <i>Maireana sedifolia</i> , <i>Maireana tomentosa</i> , <i>Rhagodia eremaea</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Maireana</i> sp., <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Salsola australis</i> , <i>Sclerolaena eriacantha</i> , <i>Solanum orbiculatum</i> , <i>Zygophyllum fruticosum</i>
Tussock and annual grasses	<i>Enneapogon polyphyllus</i> , <i>Paspalidium basicladum</i>
Herbs	<i>Zygophyllum</i> sp.



Phase 2 Site Descriptions Tropicana Operational Area Site 04

Described RG Date 9/06/2007 Type: Quadrat 20 x 20
 Location Tropicana
 MGA Zone 51 651459 mE 6763083 mN
 Habitat Top of dune, gentle slope
 Soil Red-orange sandy clay, with loose soil
 Rock Type Nil
 Vegetation Sparse *Codonocarpus cotinifolius* low trees, over open *Anthotroche pannosa* low shrubs, over open *Dicrastylis ?nicholasii* very low shrubs, over sparse *Eragrostis setifolia* / *Aristida contorta* soft grasses.
 Veg Condition Excellent
 Fire Moderate (1-5 years)
 Notes Sparse leaf litter, mainly under shrubs. Sparse wood litter.

Species List:

Trees <5 metres	<i>Codonocarpus cotinifolius</i>
Mallees	<i>Eucalyptus youngiana</i>
Shrubs 0.5-1 metres	<i>Acacia murrayana</i> , <i>Anthotroche pannosa</i> , <i>Duboisia hopwoodii</i> , <i>Thryptomene biseriata</i>
Shrubs <0.5 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Callitris preissii</i> , <i>Dicrastylis ?nicholasii</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Scaevola parvifolia</i> , <i>Solanum plicatile</i> , <i>Thryptomene biseriata</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Eragrostis setifolia</i> , <i>Eriachne helmsii</i>
Herbs	<i>Goodenia glabra</i>



Phase 2 Site Descriptions Tropicana Operational Area Site 05

Described CCS Date 9/06/2007 Type: Quadrat 20 x 20
 Location Tropicana
 MGA Zone 50 650575 mE 6764131 mN
 Habitat Flat/plain, negligible slope.
 Soil Red-orange sandy clay, with some loose soil.
 Rock Type Nil
 Vegetation Open *Eucalyptus trivalva* mallee, over open *Thryptomene biseriata* very low shrubs, over sparse *Triodia basedowii* hummocks.
 Veg Condition Good; tracks through site
 Fire Moderate (1-5 years)
 Notes Sparse leaf litter, mainly under shrubs. Sparse wood litter.

Species List:

05	Trees <5 metres	<i>Codonocarpus cotinifolius</i>
05	Mallees	<i>Eucalyptus trivalva</i> (do not use), <i>Eucalyptus youngiana</i>
05	Shrubs >2 metres	<i>Callitris preissii</i>
05	Shrubs 1-2 metres	<i>Duboisia hopwoodii</i> , <i>Hakea francisiana</i>
05	Shrubs 0.5-1 metres	<i>Hannafordia bissillii</i> subsp. <i>bissillii</i>
05	Shrubs <0.5 metres	<i>Acacia jamesiana</i> , <i>Leptosema chambersii</i> , <i>Otton simplicifolium</i> , <i>Thryptomene biseriata</i>
05	Hummock grasses	<i>Triodia basedowii</i>
05	Tussock and annual grasses	<i>Aristida contorta</i>
05	Herbs	<i>Goodenia xanthosperma</i>
05	Twiners	<i>Rhyncharrhena linearis</i>



Phase 2 Site Descriptions Tropicana Operational Area Site 06

Described CCS Date 9/06/2007 Type: Quadrat 20 x 20

Location Tropicana

MGA Zone 51 651205 mE 6763177 mN

Habitat Undulating plain/dune swale

Soil Red-orange/sand

Rock Type No rocks

Vegetation Burnt dead Acacia sp (indeterminant), over open *Duboisia hopwoodii* / *Dicrastylis brunnea*, over *Aluta maisonneuvei* subsp. *auriculata*, over *Triodia basedowii*

Veg Condition Excellent

Fire Moderate

Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees <5 metres	<i>Codonocarpus cotinifolius</i>
Shrubs 0.5-1 metres	<i>Alyogyne pinoniana</i> , <i>Anthotroche pannosa</i> , <i>Dicrastylis sp. Cundeeleensis</i> (D.J. Pearson 101), <i>Duboisia hopwoodii</i>
Shrubs <0.5 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Alyogyne pinoniana</i> , <i>Callitris sp.</i> , <i>Dicrastylis brunnea</i> , <i>Goodenia scaevolina</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Leptosema chambersii</i> , <i>Monotaxis luteiflora</i> , <i>Scaevola parvifolia</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Amphipogon caricinus</i> , <i>Amphipogon caricinus</i> var. <i>caricinus</i> , <i>Aristida holathera</i> var. <i>holathera</i> , <i>Eragrostis eriopoda</i> , <i>Eragrostis setifolia</i>
Herbs	<i>Goodenia xanthosperma</i>



Phase 2 Site Descriptions Tropicana Operational Area Site 09

Described RG Date 10/06/200 Type: Quadrat 20 x 20
Season Uniformit

Location Tropicana

MGA Zone 51 649788 mE 6762155 mN

Habitat Undulating plain, sand hills, gentle slope

Soil Red-orange sandy clay, with loose soil

Rock Type Nil

Vegetation Open *Eucalyptus gongylocarpa* medium trees, over open *Acacia ligulata* medium shrubs over open *Anthotroche pannosa* low shrubs, over open *Triodia basedowii* hummock grasses.

Veg Condition Good; 1 corner of site cleared for drill pad, drilling current on adjacent areas

Fire Moderate (1-5 years)

Notes Moderate leaf litter, mainly under shrubs. Moderate wood litter.

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Shrubs 1-2 metres	<i>Acacia ligulata</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Alyogyne pinoniana</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Pimelea microcephala</i> subsp. <i>microcephala</i> , <i>Pittosporum angustifolium</i>
Shrubs 0.5-1 metres	<i>Acacia acanthoclada</i> subsp. <i>acanthoclada</i> , <i>Acacia ligulata</i> , <i>Anthotroche pannosa</i> , <i>Callitris preissii</i> , <i>Hakea francisiana</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i>
Shrubs <0.5 metres	<i>Alyxia buxifolia</i> , <i>Dicrastylis brunnea</i> , <i>Scaevola basedowii</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Solanum lasiophyllum</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>
Tussock and annual grasses	<i>Eriachne helmsii</i> , <i>Triodia desertorum</i>
Herbs	<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 11

Described CCS Date 10/06/200 Type: Quadrat 20 x 20
 Location Tropicana
 MGA Zone 51 649120 mE 6761685 mN
 Habitat Dune crest
 Soil Red-orange/sand
 Rock Type No rocks
 Vegetation Sparse *Pityrodia loricata* low shrubs, over sparse to open *Caesia* sp. *talingka* ms (C. Tauss) and *Triodia desertorum* hummock grass.
 Veg Condition Pristine
 Fire Old
 Notes Negligible leaf litter and sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Trees <5 metres	<i>Callitris preissii</i>
Shrubs >2 metres	<i>Grevillea stenobotrya</i>
Shrubs 1-2 metres	<i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Leptospermum fastigiatum</i> , <i>Pityrodia loricata</i>
Shrubs 0.5-1 metres	<i>Anthotroche pannosa</i> , <i>Daviesia grahamii</i> , <i>Pityrodia loricata</i>
Shrubs <0.5 metres	<i>Acacia acanthoclada</i> subsp. <i>acanthoclada</i> , <i>Bertya dimerostigma</i> , <i>Chrysocephalum puteale</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i> , <i>Lomandra leucocephala</i> subsp. <i>robusta</i> , <i>Pomax</i> sp. desert (A.S. George 11968), <i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia desertorum</i>
Herbs	<i>Caesia</i> sp. <i>talingka</i> ms (C. Tauss), <i>Caustis dioica</i> , <i>Chrysocephalum puteale</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 12

Described RG Date 10/06/200 Type: Quadrat 20 x 20

Location Tropicana

MGA Zone 51 648628 mE 6761711 mN

Habitat Dune crest, gentle slope.

Soil Red-orange fine sand, with loose soil

Rock Type Nil

Vegetation Isolated *Callitris preissii* medium trees, over sparse *Eucalyptus youngiana* mallee, over open *Anthotroche pannosa* / *Pityrodia loricata* low shrubs, over open *Triodia desertorum*.

Veg Condition Good

Fire Moderate (1-5 years)

Notes Sparse leaf litter, mainly under shrubs

Species List:

Trees 5-15 metres	<i>Callitris preissii</i>
Mallees	<i>Eucalyptus youngiana</i>
Shrubs >2 metres	<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>
Shrubs 1-2 metres	<i>Acacia jamesiana</i>
Shrubs 0.5-1 metres	<i>Acacia prainii</i> , <i>Anthotroche pannosa</i> , <i>Leptospermum fastigiatum</i> , <i>Pityrodia loricata</i> , <i>Scaevola basedowii</i>
Shrubs <0.5 metres	<i>Anthotroche pannosa</i> , <i>Lomandra leucocephala</i> subsp. <i>robusta</i>
Hummock grasses	<i>Triodia desertorum</i>
Herbs	<i>Scaevola parvifolia</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 17

Described RG Date 10/06/200 Type: Quadrat 20 x 20
Location Tropicana
MGA Zone 50 646507 mE 6759814 mN
Habitat Broad dune crest
Soil Loose red-orange sand loam
Rock Type Nil
Vegetation Sparse *Eucalyptus gongylocarpa* medium trees and mallee, over open *Dodonaea viscosa* subsp. *angustissima* medium shrubs, over open *Anthotroche pannosa* / *Callitris preissii* low shrubs over open *Triodia desertorum* hummock grass
Veg Condition Pristine to excellent
Fire 1-5 yrs
Notes Moderate leaf litter mainly under shrubs, sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Shrubs 1-2 metres	<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>
Shrubs 0.5-1 metres	<i>Acacia ayersiana</i> , <i>Acacia prainii</i> , <i>Anthotroche pannosa</i> , <i>Callitris preissii</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Microcorys macredieana</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>
Shrubs <0.5 metres	<i>Keraudrenia velutina</i> subsp. <i>elliptica</i>
Hummock grasses	<i>Triodia ?desertorum</i>
Tussock and annual grasses	<i>Aristida contorta</i>
Herbs	<i>Commersonia melanopetala</i> , <i>Scaevola parvifolia</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 20

Described CCS Date 10/06/200 Type: Quadrat 20 x 20
Location Tropicana
MGA Zone 51 648976 mE 6759209 mN
Habitat Edge of broad dune crest
Soil Red-orange/sandy loam
Rock Type No rocks
Vegetation *Eucalyptus youngiana* scattered mallee, over *Gyrostemon ramulosus* and *Grevillea stenobotrya* low trees to tall shrubs, over *Triodia desertorum* open hummock grassland
Veg Condition Pristine
Fire Moderate
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Name	Cover	Height
Trees <5 metres	<i>Callitris columellaris</i> , <i>Gyrostemon ?ramulosus</i>	
Mallee trees	<i>Eucalyptus youngiana</i>	
Shrubs >2 metres	<i>Grevillea stenobotrya</i>	
Shrubs 1-2 metres	<i>Acacia ligulata</i>	
Shrubs 0.5-1 metres	<i>Adriana urticoides</i> var. <i>hookeri</i> , <i>Anthotroche pannosa</i> , <i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i> , <i>Rhagodia eremaea</i> , <i>Thryptomene biseriata</i>	
Shrubs <0.5 metres	<i>Glischrocaryon</i> sp., <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Scaevola basedowii</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i> , <i>Thryptomene biseriata</i>	
Hummock grasses	<i>Triodia desertorum</i>	



Phase 2 Site Descriptions Tropicana Operational Area

Site 21

Described RG Date 10/06/200 Type: Quadrat 20 x 20
 Location Tropicana
 MGA Zone 50 649191 mE 6759013 mN
 Habitat Dune swale
 Soil Loose red-orange sand
 Rock Type Nil
 Vegetation Sparse *Eucalyptus gongylocarpa* medium trees & juvenile *Eucalyptus gongylocarpa* low trees, over open *Grevillea juncifolia* subsp. *temulenta* and *Acacia ligulata* medium shrubs, over sparse *Anthotroche pannosa* very low shrubs, over open *Triodia desertorum* hummock grass.
 Veg Condition Excellent
 Fire 1-5 yrs
 Notes Sparse leaf litter mainly under shrubs, sparse wood litter

Species List:

Trees <5 metres	<i>Callitris columellaris</i> , <i>Gyrostemon ?ramulosus</i>
Shrubs >2 metres	<i>Grevillea stenobotrya</i>
Shrubs 1-2 metres	<i>Acacia ligulata</i>
Shrubs 0.5-1 metres	<i>Adriana urticoides</i> var. <i>hookeri</i> , <i>Anthotroche pannosa</i> , <i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i> , <i>Rhagodia eremaea</i> , <i>Thryptomene biseriata</i>
Shrubs <0.5 metres	<i>Glischrocaryon</i> sp., <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Scaevola basedowii</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i> , <i>Thryptomene biseriata</i>
Hummock grasses	<i>Triodia desertorum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 23

Described CCS Date 10/06/200 Type: Quadrat 20 x 20

Location Tropicana

MGA Zone 51 646711 mE 6757700 mN

Habitat Plain

Soil Red-orange/sandy clay

Rock Type Ferrous

Vegetation Open to moderately dense *Acacia aneura* var. *argentea* / *Acacia aneura* var. *aneura*, over open to moderately dense shrubland of *Acacia aneura* var. *argentea*, *Aluta maisonneuvei* subsp. *auriculata* / *Eremophila forrestii*, over isolated grasses.

Veg Condition Pristine

Fire Old

Notes Moderate leaf litter, mainly under shrubs and plentiful wood litter

Species List:

Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i>
Shrubs 1-2 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Eremophila punctata</i> , <i>Prostanthera sericea</i> , <i>Psydrax suaveolens</i>
Shrubs <0.5 metres	<i>Eremophila forrestii</i> , <i>Solanum lasiophyllum</i>
Hummock grasses	<i>Triodia basedowii</i> , <i>Triodia basedowii</i>
Tussock and annual grasses	<i>Amphipogon caricinus</i> , <i>Eragrostis eriopoda</i> , <i>Eragrostis</i> sp.



Phase 2 Site Descriptions Tropicana Operational Area

Site 24

Described RG Date 12/06/200 Type: Quadrat 20 x 20
Location Tropicana
MGA Zone 50 648327 mE 6757593 mN
Habitat Broad sand hill slope, undulating plain with gentle slope.
Soil Red-orange sand to loam, with some loose soil.
Rock Type Nil
Vegetation *Eucalyptus gongylocarpa* sparse medium woodland, over *Anthotroche pannosa* low shrubs, over *Triodia desertorum* hummock grassland.
Veg Condition Excellent
Fire Moderate (1-5 years)
Notes Sparse leaf litter, mainly under shrubs. Sparse wood litter.

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Trees <5 metres	<i>Gyrostemon ramulosus</i>
Shrubs 1-2 metres	<i>Acacia ligulata</i> , <i>Grevillea juncifolia</i> subsp. <i>temulenta</i>
Shrubs 0.5-1 metres	<i>Anthotroche pannosa</i>
Shrubs <0.5 metres	<i>Acacia colletioides</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i>
Tussock and annual grasses	<i>Triodia desertorum</i>
Herbs	<i>Stylidium induratum</i>
Twiners	<i>Murchisonia volubilis</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 26

Described CCS **Date** 10/06/200 **Type:** Quadrat 20 x 20
Location Tropicana
MGA Zone 50 646913 mE 6757119 mN
Habitat Hill lower slope
Soil Orange sandy clay
Rock Type Ferrous
Vegetation Burnt open *Acacia aneura* var. *argentea* / *Eucalyptus oleosa* subsp. *oleosa* regrowth, over *Triodia basedowii* hummock grass.
Veg Condition Pristine
Fire Moderate
Notes sparse wood litter

Species List:

Shrubs 1-2 metres	<i>Codonocarpus cotinifolius</i>
Shrubs <0.5 metres	<i>Acacia aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia sibilans</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Dicrastylis brunnea</i> , <i>Eremophila forrestii</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Eucalyptus oleosa</i> subsp. <i>oleosa</i> , <i>Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eragrostis xerophila</i> , <i>Monachather paradoxus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 27

Described CCS Date 10/06/200 Type: Quadrat 20 x 20
 Location Tropicana
 MGA Zone 51 645780 mE 6757458 mN
 Habitat Plain / flat
 Soil Orange sand
 Rock Type No rocks
 Vegetation Burnt *Acacia aneura* sp (indeterminant variety) over open low shrubs *Keraudrenia velutina* / *Dicrastylis brunnea*, over sparse *Triodia basedowii* hummock grass.
 Veg Condition Excellent
 Notes Moderate wood litter

Species List:

Trees <5 metres	<i>Eucalyptus concinna</i>
Shrubs >2 metres	<i>Acacia ramulosa</i> var. <i>ramulosa</i>
Shrubs 1-2 metres	<i>Codonocarpus cotinifolius</i> , <i>Eucalyptus trivalva</i>
Shrubs 0.5-1 metres	<i>Acacia murrayana</i>
Shrubs <0.5 metres	<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963), <i>Dicrastylis ?nicholasii</i> , <i>Dicrastylis brunnea</i> , <i>Dicrastylis nicholasii</i> , <i>Enekbatus eremaeus</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Keraudrenia velutina</i> , <i>Leptosema chambersii</i> , <i>Sida ? arenicola</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eragrostis xerophila</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 29

Described CCS Date 12/06/200 Type: Quadrat 20 x 20
MGA Zone 50 645297 mE 6756215 mN
Habitat Flat plain
Soil Red-orange sand with negligible slope.
Rock Type nil
Vegetation Burnt isolated *Acacia aneura* over sparse *Eucalyptus leptopoda* and *Eucalyptus trivalva* mallee trees over moderately dense *Leptosema chambersii* over isolated *Eragrostis falcata* and *Aristida holathera* ssp *holathera* soft grasses

Species List:

Mallees	<i>Eucalyptus leptopoda</i> subsp. <i>elevata</i> , <i>Eucalyptus trivalva</i> (do not use)
Shrubs 0.5-1 metres	<i>Acacia murrayana</i> , <i>Duboisia hopwoodii</i>
Shrubs <0.5 metres	<i>Acacia ligulata</i> , <i>Dicrastylis brunnea</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Leptosema chambersii</i> , <i>Sida</i> sp., <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i> , <i>Solanum plicatile</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i> , <i>Eragrostis setifolia</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 33

Described RG Date 12/06/200 Type: Quadrat 20 x 20
 MGA Zone 50 648788 mE 6755843 mN
 Habitat Ridge top of dune crest with gentle slope
 Soil orange yellow sand
 Rock Type nil
 Vegetation Open *Grevillea nematophylla* ssp *planicosta* medium shrubs over open *Anthotroche pannosa* and *Thryptomene biseriata* low shrubs over open *Bertya dimerostigma* very low shrubs over open *Triodia desertorum* hummock grasses
 Veg Condition pristine
 Fire Moderate (1-5 years)
 Notes Sparse leaf litter, mainly under shrubs. Sparse wood litter.

Species List:

Shrubs 1-2 metres	<i>Acacia ligulata</i> , <i>Daviesia grahamii</i> , <i>Grevillea nematophylla</i> subsp. <i>planicosta</i>
Shrubs 0.5-1 metres	<i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>Anthotroche pannosa</i> , <i>Pityrodia loricata</i> , <i>Thryptomene biseriata</i>
Shrubs <0.5 metres	? <i>Stackhousia megaloptera</i> , <i>Bertya dimerostigma</i> , <i>Callitris preissii</i> , <i>Chrysocephalum puteale</i> , <i>Lomandra leucocephala</i> subsp. <i>robusta</i> , <i>Muehlenbeckia florulenta</i> , <i>Pomax</i> sp. desert (A.S. George 11968), <i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i>
Herbs	<i>Dampiera ramosa</i>
Sedges and sedge-like	<i>Caesia</i> sp. <i>talingka ms</i> (<i>C. Tauss</i>)



Phase 2 Site Descriptions Tropicana Operational Area

Site 34

Described RG Date 12/06/200 Type: Quadrat 20 x 20
 MGA Zone 50 648402 mE 6756019 mN
 Habitat Rocky hill crest with gentle slope
 Soil Pale orange sandy clay
 Rock Type Quartz and sandstone
 Vegetation *Casuarina pauper* and mixed *Acacia aneura* var. *argentea* low woodland, over mixed medium to low *Acacia tetragonophylla* / *Acacia sibirica* / *Olearia muelleri* / *Scaevola spinescens* shrubland.
 Veg Condition Pristine
 Fire Nil
 Notes Sparse leaf litter, mainly under shrubs. Moderate wood litter.

Species List:

Trees 5-15 metres	<i>Casuarina pauper</i>
Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia aneura</i> var. <i>intermedia</i> , <i>Santalum spicatum</i>
Shrubs 1-2 metres	<i>Acacia ?kempeana</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>Acacia tetragonophylla</i> , <i>Alyxia buxifolia</i> , <i>Eremophila exilis</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Psydrax suaveolens</i>
Shrubs 0.5-1 metres	<i>Pittosporum angustifolium</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>artemisioides</i>
Shrubs <0.5 metres	<i>Chrysocephalum puteale</i> , <i>Dodonaea lobulata</i> , <i>Maireana ?georgei</i> , <i>Maireana tomentosa</i> , <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Senna artemisioides</i> subsp. <i>x artemisioides</i> , <i>Sida fibulifera</i>
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Eriachne mucronata</i> (desert form)



Phase 2 Site Descriptions Tropicana Operational Area

Site 35

Described CCS Date 12/06/200 Type: Quadrat 20 x 20
MGA Zone 50 648024 mE 6755500 mN
Habitat Dune crest
Soil Yellow clayey sand
Rock Type No rocks
Vegetation *Eucalyptus gongylocarpa* / *Callitris columellaris* sparse low woodland, over *Eucalyptus oleosa* subsp. *oleosa* mallee and open *Acacia helmsiana* / *Thryptomene biseriata* medium shrubland, over open *Triodia desertorum* hummock grass.
Veg Condition Pristine
Fire none evident
Notes Sparse leaf litter, mainly under trees and sparse wood litter

Species List:

Trees <5 metres	<i>Callitris columellaris</i> , <i>Eucalyptus gongylocarpa</i>
Mallees	<i>Eucalyptus concinna</i>
Shrubs >2 metres	<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>
Shrubs 1-2 metres	<i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>Dodonaea lobulata</i> , <i>Micromyrtus stenocalyx</i> , <i>Thryptomene biseriata</i>
Shrubs 0.5-1 metres	<i>Acacia helmsiana</i> , <i>Acacia prainii</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Anthotroche pannosa</i> , <i>Bertya dimerostigma</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Lomandra leucocephala</i> subsp. <i>robusta</i> , <i>Pityrodia loricata</i> , <i>Thryptomene biseriata</i>
Shrubs <0.5 metres	<i>Acacia</i> aff. <i>sorophylla</i> , <i>Caustis dioica</i> , <i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia desertorum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 41

Described RG Date 9/06/2007 Type: Quadrat 20 x 20
MGA Zone 50 651100 mE 6765128 mN
Habitat flat plain
Soil red-orange sandy clay
Rock Type nil
Vegetation Sparse *Eucalyptus concinna* mallee trees over open *Acacia kempeana* and *Acacia burkittii* over open *Triodia basedowii* hummock grasses
Veg Condition

Species List:

Mallees	<i>Eucalyptus concinna</i> , <i>Eucalyptus effusa</i> , <i>Eucalyptus gracilis</i> , <i>Eucalyptus trivalva</i> (do not use)
Shrubs >2 metres	<i>Acacia ?ayersiana</i> , <i>Acacia kempeana</i> , <i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Acacia colletioides</i>
Shrubs 0.5-1 metres	<i>Acacia rigens</i> , <i>Duboisia hopwoodii</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i> , <i>Jasminum didymum</i> subsp. <i>lineare</i>
Shrubs <0.5 metres	<i>Olearia arida</i> , <i>Olearia subspicata</i> , <i>Scaevola spinescens</i> , <i>Sclerolaena convexula</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Solanum plicatile</i> , <i>Zygophyllum eremaeum</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Eragrostis falcata</i> , <i>Paspalidium basicladum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 50

Described CCS Date 14/06/200 Type: Quadrat 20 x 20
MGA Zone 50 656067 mE 6770605 mN
Habitat Saline sandy clay flat/pan.
Soil Brown sandy clay
Rock Type Nil
Vegetation *Tecticornia halocnemoides*, *Tecticornia pruinosa* moderately dense low shrubland over
Eragrostis pergracilis tussock grasses
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under shrubs. Sparse wood litter.

Species List:

Name	Cover	Height
Shrubs <0.5 metres	<i>Tecticornia halocnemoides</i> , <i>Tecticornia pruinosa</i>	
Tussock and annual grasses	<i>Eragrostis pergracilis</i>	



Phase 2 Site Descriptions Tropicana Operational Area

Site 51

Described Date Type: Quadrat 20 x 20
MGA Zone 50 655106 mE 6770892 mN
Habitat Mid slope of low hill/mound and clay with gentle slope
Soil Red-orange sandy clay
Rock Type kaolin clay
Vegetation Open *Eucalyptus gracilis* medium trees over sparse *Casuarina pauper* and *Alectryon oleifolius* subsp. *canescens* tall shrubs over sparse *Zygophyllum eremaeum* vey low shrubs over isolated herbs and grasses
Veg Condition pristine
Fire nil
Notes Moderate leaf litter, mainly under shrubs. Moderate wood litter.

Species List:

Trees 5-15 metres	<i>Eucalyptus gracilis</i>
Shrubs >2 metres	<i>Acacia oswaldii</i> , <i>Alectryon oleifolius</i> subsp. <i>canescens</i> , <i>Casuarina pauper</i>
Shrubs 1-2 metres	<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i>
Shrubs 0.5-1 metres	<i>Zygophyllum eremaeum</i>
Shrubs <0.5 metres	<i>Chenopodium desertorum</i> subsp. <i>rectum</i> , <i>Maireana pentatropis</i> , <i>Maireana triptera</i> , <i>Scaevola spinescens</i> , <i>Sclerolaena symoniana</i>
Herbs	<i>Zygophyllum apiculatum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 52

Described Date Type: Quadrat 20 x 20
MGA Zone 50 657735 mE 6770427 mN
Habitat flat plain
Soil Orange clayey sand
Rock Type nil
Vegetation Open *Cratystylis subspinescens* and halophytic low shrubland with sparse tussock grasses including *Frankenia cinerea* very low shrubs
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under shrubs. Sparse wood litter.

Species List:

Shrubs 0.5-1 metres	<i>Cratystylis subspinescens, Maireana pyramidata</i>
Shrubs <0.5 metres	<i>Atriplex vesicaria, Frankenia cinerea, Rhagodia eremaea, Sclerolaena deserticola, Sclerolaena eriacantha, Solanum orbiculatum</i> subsp. <i>orbiculatum</i>
Tussock and annual grasses	<i>Aristida contorta, Austrostipa platychaeta, Enteropogon ramosus, Eragrostis dielsii, Eragrostis pergracilis</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 53

Described RG Date 14/06/200 Type: Quadrat 20 x 20
MGA Zone 50 655122 mE 6769728 mN
Habitat undulating plain
Soil red-orange sandy clay
Rock Type nil
Vegetation Open *Eucalyptus horistes* medium trees over sparse *Acacia aneura* var. *intermedia* tall shrubs over sparse *Acacia prainii* and *Acacia burkittii* medium shrubs over sparse *Senna artemisioides* subsp. *petiolaris* low shrubs over sparse *Aristida contorta* soft grasses over open *Triodia basedowii* hummock grasses
Veg Condition Pristine
Fire Nil
Notes Moderate leaf litter, mainly under shrubs. Moderate wood litter.

Species List:

Trees 5-15 metres	<i>Eucalyptus horistes</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>intermedia</i> , <i>Acacia burkittii</i> , <i>Acacia sibirica</i> , <i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>
Shrubs 1-2 metres	<i>Acacia prainii</i>
Shrubs 0.5-1 metres	<i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Indigofera georgei</i> , <i>Olearia exiguifolia</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 54

Described CCS Date 14/06/200 Type: Quadrat 20 x 20
 Season E
 MGA Zone 50 652716 mE 6768077 mN
 Habitat flat plain
 Soil red-orange sandy clay
 Rock Type nil
 Vegetation Open mixed *Acacia aneura* var. *intermedia* and *Acacia quadrimarginea* low trees over sparse *Eucalyptus trivalva* and *Eucalyptus concinna* mallee trees over isolated *Eremophila latrobei* ssp *filiformis* medium shrubs over moderately dense *Triodia basedowii* hummock grasses
 Veg Condition pristine
 Fire old
 Notes Moderate leaf litter, mainly under shrubs. Moderate wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia aneura</i> var. <i>intermedia</i> , <i>Acacia quadrimarginea</i> , <i>Acacia sibirica</i>
Mallees	<i>Eucalyptus concinna</i> , <i>Eucalyptus trivalva</i> (do not use)
Shrubs 1-2 metres	<i>Acacia tetragonophylla</i> , <i>Eremophila exilis</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i>
Shrubs <0.5 metres	<i>Maireana tomentosa</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i>
Tussock and annual grasses	<i>Paspalidium basicladum</i> , <i>Triodia basedowii</i>
Herbs	<i>Vittadinia sulcata</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 55

Described RG Date 14/06/200 Type: Quadrat 20 x 20
 MGA Zone 50 656061 mE 6767917 mN
 Habitat undulating plain
 Soil red-orange sandy clay
 Rock Type Granite
 Vegetation Moderately dense *Casuarina pauper* medium trees over open *Senna artemisioides* subsp. *petiolaris* medium shrubs over sparse *Maireana sedifolia* low shrubs over open *Maireana triptera*, *Maireana tomentosa* subsp. *tomentosa* and *Sclerolaena diacantha* very low shrubs over sparse *Paspalidium basicladum* and soft grasses
 Veg Condition pristine
 Fire nil
 Notes Moderate leaf litter, mainly under shrubs. Moderate wood litter.

Species List:

Trees 5-15 metres	<i>Casuarina pauper</i>
Trees <5 metres	<i>Alectryon oleifolius</i> subsp. <i>canescens</i> , <i>Santalum spicatum</i>
Shrubs >2 metres	<i>Acacia oswaldii</i>
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Acacia tetragonophylla</i> , <i>Alectryon oleifolius</i> subsp. <i>canescens</i> , <i>Dodonaea lobulata</i> , <i>Eremophila georgei</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i> , <i>Rhagodia eremaea</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs 0.5-1 metres	<i>Maireana sedifolia</i> , <i>Maireana triptera</i> , <i>Senna artemisioides</i> subsp. <i>x artemisioides</i>
Shrubs <0.5 metres	<i>Maireana tomentosa</i> subsp. <i>tomentosa</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Sclerolaena ?diacantha</i> , <i>Sida sp.</i> , <i>Solanum lasiophyllum</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>
Tussock and annual grasses	<i>Austrostipa sp.</i> , <i>Enneapogon polyphyllus</i> , <i>Paspalidium basicladum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 56

Described CCS Date 15/07/200 Type: Quadrat 20 x 20
Season E
MGA Zone 50 658727 mE 6767701 mN
Habitat Broad depression, clay pan
Soil pale brown clay
Rock Type quartz gravel
Vegetation Open *Chenopodium nitrariaceum* and *Muehlenbeckia florulenta* medium shrubs over *Marsilea hirsuta* ferns over sparse *Eleocharis pallens* sedges moderately dense *Eragrostis australasica* and *Eragrostis setifolia* soft grasses
Veg Condition Excellent
Fire nil
Notes Moderate leaf litter, mainly under shrubs. Negligible wood litter.

Species List:

Shrubs 1-2 metres	<i>Chenopodium nitrariaceum</i> , <i>Muehlenbeckia florulenta</i>
Tussock and annual grasses	<i>Eragrostis australasica</i> , <i>Eragrostis setifolia</i>
Herbs	<i>Centipeda pleiocephala</i> , <i>Marsilea hirsuta</i>
Sedges and sedge-like	<i>Eleocharis pallens</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 57

Described CCS Date 14/06/200 Type: Quadrat 20 x 20
Season E
MGA Zone 50 654594 mE 6769204 mN
Habitat flat plain
Soil orange brown sandy clay
Rock Type nil
Vegetation Moderately dense *Acacia aneura* var. *aneura* tall shrubs over sparse mixed soft grasses over sparse *Triodia basedowii* hummock grasses
Veg Condition pristine
Fire old
Notes Moderate leaf litter, mainly under shrubs. Moderate wood litter.

Species List:

Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i>
Shrubs 0.5-1 metres	<i>Eremophila exilis</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i>
Shrubs <0.5 metres	<i>Maireana villosa</i> , <i>Sida ?chrysocalyx</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Eragrostis setifolia</i> , <i>Eriachne helmsii</i> , <i>Monachather paradoxus</i> , <i>Triodia basedowii</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 58

Described SH Date 15/07/200 Type: Quadrat 20 x 20
MGA Zone 50 657600 mE 6767025 mN
Habitat flat plain
Soil red-orange sandy clay
Rock Type quartz gravel and calcrete
Vegetation Sparse to open *Casuarina pauper* medium to low trees over open *Senna artemisioides* subsp. *petiolaris* medium shrubs over *Maireana sedifolia* and *Scaevola spinescens* low shrubs over sparse *Minuria multisetata* very low shrubs over sparse *Enneapogon polyphyllus* soft grasses
Veg Condition Good
Fire old
Notes Negligible leaf litter. Sparse wood litter.

Species List:

Trees 5-15 metres	<i>Casuarina pauper</i>
Shrubs 1-2 metres	<i>Acacia oswaldii</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs 0.5-1 metres	<i>Maireana sedifolia</i> , <i>Maireana sp.</i> , <i>Scaevola spinescens</i>
Shrubs <0.5 metres	<i>Minuria multisetata</i> , <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i>
Tussock and annual grasses	<i>Enneapogon polyphyllus</i> , <i>Paspalidium basicladum</i>
Herbs	<i>Sida spodochroma</i> , <i>Vittadinia sulcata</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 59

Described SH Date 15/07/200 Type: Quadrat 20 x 20
Season E
MGA Zone 50 652424 mE 6765945 mN
Habitat flat plain
Soil red-orange sandy clay
Rock Type ferrous
Vegetation Sparse *Acacia aneura* var. *aneura* low trees to tall shrubs over isolated *Acacia ramulosa* var. *ramulosa* medium shrubs over isolated *Solanum lasiophyllum* very low shrubs over isolated *Monachather paradoxus* soft grasses over open *Triodia basedowii* hummock grasses
Veg Condition good
Fire old
Notes Moderate leaf litter, mainly under shrubs. Moderate wood litter

Species List:

Mallees	<i>Eucalyptus socialis</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i>
Shrubs 1-2 metres	<i>Acacia ramulosa</i> var. <i>ramulosa</i>
Shrubs <0.5 metres	<i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Solanum lasiophyllum</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Monachather paradoxus</i>
Twiners	<i>Rhyncharrhena linearis</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 60

Described Date Type: Quadrat 20 x 20
MGA Zone 50 652115 mE 6765173 mN
Habitat flat plain
Soil red-orange sandy clay
Rock Type ferrous
Vegetation Open *Eucalyptus trivalva* mallee trees over open *Eremophila alternifolia* medium to very low shrubs over sparse *Paspalidium basicladum* soft grasses over sparse *Triodia basedowii* hummock grass
Veg Condition good
Fire moderate
Notes Sparse leaf litter, mainly under shrubs. Sparse wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>tenuis</i>
Mallees	<i>Eucalyptus trivalva</i> (do not use)
Shrubs 1-2 metres	<i>Acacia colletioides</i>
Shrubs 0.5-1 metres	<i>Acacia murrayana</i> , <i>Duboisia hopwoodii</i> , <i>Eremophila alternifolia</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Acacia desertorum</i> var. <i>desertorum</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Eremophila scoparia</i> , <i>Hakea francisiana</i> , <i>Maireana tomentosa</i> subsp. <i>tomentosa</i> , <i>Scaevola parvifolia</i> , <i>Solanum orbiculatum</i> , <i>Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Paspalidium basicladum</i>
Herbs	<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>
Twiners	<i>Zygophyllum eremaeum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 61

Described CCS Date 13/06/200 Type: Quadrat 20 x 20
MGA Zone 50 668835 mE 6759157 mN
Habitat flat plain
Soil pale brown sandy clay
Rock Type nil
Vegetation Sparse mixed *Acacia aneura* var. *conifera*, *Acacia sibirica* and *Acacia ayersiana* low trees over open mixed Chenopods very low shrubs over moderately dense *Aristida contorta* soft grasses
Veg Condition pristine
Fire Old
Notes Moderate widespread leaf litter . Sparse wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. ? <i>conifera</i> , <i>Acacia ayersiana</i> , <i>Acacia sibirica</i>
Shrubs <0.5 metres	<i>Eremophila serrulata</i> , <i>Maireana integra</i> , <i>Maireana</i> sp.2, <i>Sclerolaena densiflora</i> , <i>Sclerolaena diacantha</i> , <i>Senna artemisioides</i> subsp. <i>x artemisioides</i> , <i>Sida fibulifera</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Enteropogon ramosus</i>
Herbs	<i>Rhodanthe chlorocephala</i> subsp. <i>rosea</i> , <i>Salsola australis</i>
Sedges and sedge-like	<i>Fimbristylis dichotoma</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 62

Described SH Date 2/07/2007 Type: Quadrat 20 x 20
 MGA Zone 50 668736 mE 6756668 mN
 Habitat flat plain
 Soil red-orange with white clay
 Rock Type gypsum
 Vegetation Sparse *Acacia aneura* low trees over sparse *Senna artemisioides* subsp. *artemisioides* medium shrubs over sparse *Maireana pyramidata* low shrubs over open *Atriplex vesicaria* very low shrubs over sparse *Calotis hispidula* herbs over moderately dense *Aristida contorta* and other soft grasses
 Veg Condition good
 Fire nil
 Notes Sparse leaf litter.

Species List:

Shrubs 1-2 metres	<i>Senna artemisioides</i> subsp. <i>artemisioides</i>
Shrubs 0.5-1 metres	<i>Chenopodium gaudichaudianum</i>
Shrubs <0.5 metres	<i>Abutilon oxycarpum</i> subsp. <i>prostratum</i> , <i>Abutilon</i> sp., <i>Acacia tetragonophylla</i> , <i>Atriplex vesicaria</i> , <i>Maireana integra</i> , <i>Maireana pyramidata</i> , <i>Salsola australis</i> , <i>Sclerolaena patenticuspis</i> , <i>Sida arenicola</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Dactyloctenium radulans</i> , <i>Enteropogon ramosus</i> , <i>Eragrostis setifolia</i>
Herbs	<i>Calotis hispidula</i> , <i>Euphorbia drummondii</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 63

Described CCS Date 13/06/200 Type: Quadrat 20 x 20
 Season E
 MGA Zone 50 668715 mE 6756518 mN
 Habitat undulating plain
 Soil red-orange sandy clay
 Rock Type nil
 Vegetation sparse *Acacia aneura* var. *aneura* low trees over open *Eucalyptus trivalva* mallee trees over open *Eremophila exilis* medium shrubs over sparse *Ptilotus obovatus* var. *obovatus* very low shrubs over moderately dense *Eragrostis laniflora* soft grasses
 Veg Condition pristine
 Fire nil
 Notes moderate leaf litter distributed mainly under shrubs. Sparse wood litter.

Species List:

Trees <5 metres	<i>Acacia ramulosa</i> var. <i>ramulosa</i>
Mallees	<i>Eucalyptus trivalva</i> (do not use)
Shrubs 1-2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia murrayana</i> , <i>Eremophila exilis</i> , <i>Rhagodia eremaea</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs 0.5-1 metres	<i>Rhagodia eremaea</i>
Shrubs <0.5 metres	<i>Abutilon otocarpum</i> , <i>Maireana</i> sp.1, <i>Maireana tomentosa</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Solanum ferocissimum</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Eragrostis laniflora</i> , <i>Eriachne helmsii</i> , <i>Paspalidium basicladum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 64

Described SH Date 3/07/2007 Type: Quadrat 20 x 20
MGA Zone 50 664956 mE 6757672 mN
Habitat flat plain
Soil red-orange clay
Rock Type quartz
Vegetation isolated *Acacia kempeana* medium trees over open *Sclerolaena diacantha* and *Solanum lasiophyllum* very low shrubs over sparse *Vittadinia sulcata* herbs over moderately dense *Aristida contorta* and *Enneapogon polyphyllus* soft grasses
Veg Condition good
Fire nil
Notes Negligible leaf litter. Sparse wood litter.

Species List:

Trees 5-15 metres	<i>Acacia kempeana</i>
Shrubs 0.5-1 metres	<i>Chenopodium gaudichaudianum</i>
Shrubs <0.5 metres	<i>Sclerolaena diacantha</i> , <i>Sclerolaena patenticuspis</i> , <i>Sida fibulifera</i> , <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i>
Herbs	<i>Abutilon oxycarpum</i> , <i>Euphorbia drummondii</i> , <i>Salsola australis</i> , <i>Sida fibulifera</i> , <i>Vittadinia sulcata</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 65

Described Date Type: Quadrat 20 x 20
MGA Zone 50 662845 mE 6757144 mN
Habitat flat plain
Soil red-orange sandy clay
Rock Type nil
Vegetation sparse *Acacia aneura* var. *aneura* low trees over open *Acacia aneura* var. *intermedia* tall to medium shrubs over *Eremophila gilesii* subsp. *gilesii* low shrubs over open *Eragrostis xerophila* soft grasses
Veg Condition good
Fire moderate
Notes Sparse leaf litter, mainly under shrubs. Sparse wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i>
Mallees	<i>Eucalyptus trivalva</i> (do not use)
Shrubs 1-2 metres	<i>Acacia aneura</i> var. <i>intermedia</i> , <i>Sida calyxhymenia</i>
Shrubs 0.5-1 metres	<i>Eremophila alternifolia</i>
Shrubs <0.5 metres	<i>Eremophila gilesii</i> subsp. <i>gilesii</i> , <i>Maireana turbinata</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Scaevola spinescens</i> , <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Eragrostis xerophila</i>
Herbs	<i>Sida fibulifera</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 66

Described RG Date 13/06/200 Type: Quadrat 20 x 20
 MGA Zone 50 662760 mE 6762441 mN
 Habitat undulating plain
 Soil red-orange loamy sand
 Rock Type nil
Vegetation Open *Acacia aneura* var. *aneura*, *Acacia aneura* var. *argentea* low woodland over sparse *Acacia aneura intermedia* tall shrubs over *Acacia burkittii* and *Eremophila exilis* medium shrubs over sparse *Lysiana murrayi* and *Amyema fitzgeraldii* climbers over sparse *Eragrostis eriopoda* and *Monachather paradoxus* soft grasses
 Veg Condition Excellent
 Fire nil
 Notes Sparse leaf litter, mainly under shrubs. Moderate wood litter.

Species List:

Trees 5-15 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Acacia tetragonophylla</i> , <i>Eremophila exilis</i>
Shrubs 0.5-1 metres	<i>Rhagodia eremaea</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Maireana tomentosa</i> subsp. <i>tomentosa</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Sclerolaena convexula</i> , <i>Sclerolaena diacantha</i> , <i>Sida atrovirens</i> , <i>Solanum centrale</i> , <i>Solanum ferocissimum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Aristida holathera</i> var. <i>holathera</i> , <i>Enneapogon polyphyllus</i> , <i>Eragrostis eriopoda</i> , <i>Eriachne helmsii</i> , <i>Monachather paradoxus</i>
Twiners	<i>Amyema fitzgeraldii</i> , <i>Lysiana murrayi</i> , <i>Rhyncharrhena linearis</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 67

Described CCS Date 4/07/2007 Type: Quadrat 20 x 20
 MGA Zone 50 643099 mE 6749457 mN
 Habitat linear dune crest
 Soil yellow orange sand
 Rock Type nil
 Vegetation sparse *Eucalyptus gongylocarpa* low trees over open *Grevillea stenobotrya* tall shrubs over sparse *Anthotroche pannosa* low shrubs over sparse *Acacia acanthoclada* subsp. *acanthoclada* very low shrubs over sparse *Lepidobolus desertii* rushes over sparse *Triodia basedowii* hummock grasses
 Veg Condition Pristine
 Fire old
 Notes moderate leaf litter mainly under shrubs. Sparse wood litter.

Species List:

Trees <5 metres	<i>Callitris preissii</i> , <i>Eucalyptus gongylocarpa</i>
Shrubs >2 metres	<i>Grevillea stenobotrya</i>
Shrubs 0.5-1 metres	<i>Acacia kempeana</i> , <i>Acacia ligulata</i> , <i>Adriana urticoides</i> var. <i>hookeri</i> , <i>Anthotroche pannosa</i> , <i>Dampiera ?eriantha</i> , <i>Daviesia grahamii</i>
Shrubs <0.5 metres	<i>Acacia acanthoclada</i> subsp. <i>acanthoclada</i> , <i>Chrysocephalum puteale</i> , <i>Glischrocaryon aureum</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Logania nuda</i> , <i>Pityrodia loricata</i> , <i>Pomax</i> sp. desert (A.S. George 11968), <i>Scaevola basedowii</i> , <i>Thryptomene biseriata</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i>
Sedges and sedge-like	<i>Lepidobolus deserti</i> , <i>Lomandra leucocephala</i> subsp. <i>robusta</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 68

Described Date Type: Quadrat 20 x 20
MGA Zone 50 642807 mE 6749729 mN
Habitat swale
Soil red orange sandy clay
Rock Type nil
Vegetation Sparse *Eucalyptus youngiana* and *Eucalyptus concinna* mallee trees over open *Acacia jamesiana* medium to low shrubs over open *Eremophila platythamnos* subsp. *platythamnos* and *Aluta maisonneuvei* subsp. *auriculata* very low shrubs over moderately dense *Triodia desertorum* hummock grasses
Veg Condition good
Fire very recent
Notes sparse widespread leaf litter. Sparse wood litter.

Species List:

Trees <5 metres	<i>Eucalyptus gongylocarpa</i>
Mallees	<i>Eucalyptus concinna</i> , <i>Eucalyptus youngiana</i>
Shrubs 1-2 metres	<i>Acacia jamesiana</i> , <i>Acacia ligulata</i> , <i>Grevillea juncifolia</i> subsp. <i>temulenta</i> , <i>Hakea francisiana</i> , <i>Prostanthera althoferi</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Acacia aneura</i> var. <i>?argentea</i> , <i>Acacia murrayana</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Bertya dimerostigma</i> , <i>Callitris preissii</i> , <i>Dicrastylis brunnea</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i>
Tussock and annual grasses	<i>Triodia desertorum</i>
Herbs	<i>Commersonia melanopetala</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 69

Described CCS Date 4/07/2007 Type: Quadrat 20 x 20
 MGA Zone 51 641633 mE 6749677 mN
 Habitat swale
 Soil red orange sand
 Rock Type nil
Vegetation isolated *Eucalyptus gongylocarpa* medium trees over sparse *Eucalyptus concinna* and *Eucalyptus youngiana* mallee trees over isolated *Acacia aneura* var. *intermedia* tall shrubs over open *Acacia jamesiana* medium to low shrubs over *Eremophila platythamnus* subsp. *platythamnus* very low shrubs over isolated *Goodenia xanthosperma* herbs over isolated soft grasses over open *Triodia desertorum* hummock grasses
 Veg Condition good
 Fire nil
 Notes moderate leaf litter mainly under shrubs. Sparse wood litter.

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Trees <5 metres	<i>Eucalyptus gongylocarpa</i>
Mallees	<i>Eucalyptus concinna</i> , <i>Eucalyptus youngiana</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>?intermedia</i> , <i>Acacia ligulata</i>
Shrubs 1-2 metres	<i>Acacia jamesiana</i> , <i>Acacia prainii</i> , <i>Grevillea nematophylla</i> subsp. <i>planicosta</i>
Shrubs <0.5 metres	<i>Alyogyne pinoniana</i> , <i>Callitris preissii</i> , <i>Dicrastylis brunnea</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Olearia arida</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>
Tussock and annual grasses	<i>Triodia desertorum</i>
Herbs	<i>Goodenia xanthosperma</i> , <i>Scaevola parvifolia</i>
Sedges and sedge-like	<i>Dianella revoluta</i> var. <i>divaricata</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 70

Described CCS Date 4/07/2007 Type: Quadrat 20 x 20
 Season E
 MGA Zone 50 640360 mE 6749290 mN
 Habitat linear dune crest
 Soil yellow orange sand
 Rock Type nil
 Vegetation Isolated *Eucalyptus gongylocarpa* and *Callitris columellaris* low trees over open *Thryptomene biseriata* and *Daviesia grahamii* and *Anthotroche pannosa* low shrubs over sparse *Lepidobolus desertii* rushes over sparse *Lomandra leucocephala* subsp. *robusta* soft grasses over *Triodia basedowii* hummock grasses
 Veg Condition pristine
 Fire old
 Notes Sparse leaf litter, mainly under shrubs. Sparse wood litter.

Species List:

Trees <5 metres	<i>Callitris preissii</i> , <i>Eucalyptus gongylocarpa</i>
Shrubs 0.5-1 metres	<i>Anthotroche pannosa</i> , <i>Daviesia grahamii</i> , <i>Grevillea juncifolia</i> subsp. <i>temulenta</i> , <i>Thryptomene biseriata</i>
Shrubs <0.5 metres	<i>Bertya dimerostigma</i> , <i>Bonamia rosea</i> , <i>Chrysocephalum puteale</i> , <i>Dampiera eriantha</i> , <i>Leptosema chambersii</i> , <i>Pityrodia loricata</i> , <i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Amphipogon caricinus</i> var. <i>caricinus</i>
Herbs	<i>Commersonia melanopetala</i>
Sedges and sedge-like	<i>Lepidobolus desertii</i> , <i>Lomandra leucocephala</i> subsp. <i>robusta</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 71

Described Date Type: Quadrat 20 x 20
MGA Zone 50 669300 mE 6755225 mN
Habitat gentle mid slope
Soil Red- orange sandy loam
Rock Type
Vegetation open *Casuarina pauper* and *Alectryon oleifolius* subsp. *canescens* low trees over open *Senna artemisioides* subsp. *filifolia* and *Dodonaea lobulata* medium shrubs over sparse *Maireana sedifolia* low shrubs over open *Ptilotus obovatus* very low shrubs over sparse mixed soft grasses
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under shrubs. Sparse wood litter.

Species List:

Trees <5 metres	<i>Alectryon oleifolius</i> subsp. <i>canescens</i> , <i>Casuarina pauper</i>
Shrubs 1-2 metres	<i>Acacia oswaldii</i> , <i>Dodonaea lobulata</i> , <i>Eremophila georgei</i> , <i>Eremophila scoparia</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i>
Shrubs 0.5-1 metres	<i>Maireana sedifolia</i> , <i>Sida calyxhymenia</i>
Shrubs <0.5 metres	<i>Chrysocephalum puteale</i> , <i>Maireana</i> sp., <i>Maireana tomentosa</i> subsp. <i>tomentosa</i> , <i>Ptilotus obovatus</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>x artemisioides</i> , <i>Sida spodochroma</i> , <i>Solanum ellipticum</i>
Hummock grasses	<i>Triodia scariosa</i>
Tussock and annual grasses	<i>Amphipogon caricinus</i> var. <i>caricinus</i> , <i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Paspalidium basicladum</i> , <i>Thyridolepis xerophila</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 72

Described	Date Type: Quadrat 20 x 20
MGA Zone	50 669525 mE 6755090 mN
Habitat	Foot slopes
Soil	red orange clay
Rock Type	granite and quartz
Vegetation	Open <i>Acacia aneura</i> var. <i>intermedia</i> medium trees over moderately dense <i>Senna artemisioides</i> subsp. <i>x artemisioides</i> medium shrubs over open <i>Ptilotus obovatus</i> very low shrubs over sparse <i>Abutilon leucopetalum</i> herbs over open <i>Enneapogon caerulescens</i> var. <i>caerulescens</i> soft grasses
Notes	Sparse leaf litter, mainly under shrubs. Moderate wood litter.

Species List:

Trees 5-15 metres	<i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs >2 metres	<i>Acacia tetragonophylla</i>
Shrubs 1-2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>x artemisioides</i> , <i>Sida calyxhymenia</i>
Shrubs 0.5-1 metres	<i>Maireana sedifolia</i>
Shrubs <0.5 metres	<i>Maireana pyramidata</i> , <i>Maireana trichoptera</i> , <i>Ptilotus obovatus</i> , <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Enneapogon caerulescens</i> var. <i>caerulescens</i> , <i>Eragrostis eriopoda</i>
Herbs	<i>Abutilon leucopetalum</i> , <i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 73

Described Date Type: Quadrat 20 x 20
 MGA Zone 50 666259 mE 6756503 mN
 Habitat flat plain
 Soil Red orange sandy clay
 Rock Type nil
 Vegetation isolated *Acacia aneura* var. *intermedia* medium trees over open *Dodonaea viscosa* subsp. *angustissima* medium to low shrubs over sparse *Sida atrovirens* over open *Maireana triptera* and *Maireana tomentosa* very low shrubs over sparse low *Sida spodochroma* herbs over moderately dense *Aristida contorta* and *Eragrostis eriopoda* soft grasses
 Veg Condition excellent
 Fire nil
 Notes Sparse leaf litter, mainly under shrubs. Negligible wood litter.

Species List:

Trees 5-15 metres	<i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs >2 metres	<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>
Shrubs 0.5-1 metres	<i>Senna artemisioides</i> subsp. <i>filifolia</i> , <i>Sida atrovirens</i>
Shrubs <0.5 metres	<i>Acacia ligulata</i> , <i>Chenopodium desertorum</i> subsp. <i>desertorum</i> , <i>Chrysocephalum puteale</i> , <i>Lepidium platypetalum</i> , <i>Maireana tomentosa</i> , <i>Maireana triptera</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Sida spodochroma</i> , <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Eragrostis eriopoda</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 74

Described Date Type: Quadrat 20 x 20
MGA Zone 50 667171 mE 6756727 mN
Habitat foot slope
Soil Red orange sandy clay
Rock Type granite
Vegetation Sparse *Acacia aneura* var. *intermedia* low trees over moderately dense *Eremophila latrobei* subsp. *latrobei* medium to low shrubs over open *Sida calyxhymenia* low shrubs and sparse *Abutilon leucopetalum* herbs over open *Eragrostis eriopoda* dominated soft grasses
Veg Condition excellent
Fire nil
Notes Sparse leaf litter, mainly under shrubs. Moderate wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. ? <i>microcarpa</i> , <i>Acacia aneura</i> var. <i>aneura</i>
Shrubs 1-2 metres	<i>Eremophila alternifolia</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Scaevola spinescens</i> , <i>Sida calyxhymenia</i>
Shrubs 0.5-1 metres	<i>Acacia tetragonophylla</i> , <i>Eremophila platycalyx</i> subsp. <i>platycalyx</i> , <i>Maireana villosa</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i>
Shrubs <0.5 metres	<i>Acacia kempeana</i> , <i>Maireana triptera</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Senna artemisioides</i> subsp. <i>artemisioides</i> , <i>Sida calyxhymenia</i> , <i>Solanum ellipticum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Eragrostis eriopoda</i>
Herbs	<i>Abutilon leucopetalum</i>



Phase 2 Site Descriptions Tropicana Operational Area Site 75

Described SH Date 3/07/2007 Type: Quadrat 20 x 20
MGA Zone 50 661741 mE 6757183 mN
Habitat flat plain
Soil Red orange sandy clay
Rock Type quartz
Vegetation sparse *Casuarina pauper* medium to low trees over sparse *Eremophila georgei* tall shrubs over sparse *Dodonaea lobulata* medium shrubs over open *Maireana sedifolia* low shrubs over sparse *Ptilotus obovatus* ver. *obovatus* very low shrubs over sparse *Minuria multisetata* herbs over sparse low *Enneapogon polyphyllus* soft grasses
Veg Condition good
Fire nil
Notes Sparse leaf litter, mainly under shrubs. Negligible wood litter.

Species List:

Trees 5-15 metres	<i>Casuarina pauper</i>
Shrubs 1-2 metres	<i>Acacia tetragonophylla</i> , <i>Dodonaea lobulata</i> , <i>Eremophila georgei</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs 0.5-1 metres	<i>Maireana sedifolia</i>
Shrubs <0.5 metres	<i>Maireana ?georgei</i> , <i>Maireana turbinata</i> , <i>Minuria multisetata</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Enneapogon polyphyllus</i>
Herbs	<i>Sida atrovirens</i>
Twiners	<i>Marsdenia australis</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 76

Described Date Type: Quadrat 20 x 20
MGA Zone 50 660760 mE 6757253 mN
Habitat low rocky hill
Soil pale brown skeletal sandy
Rock Type sandstone
Vegetation open *Casuarina pauper* and *Acacia aneura* varieties low trees over sparse *Eremophila scoparia* medium shrubs
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under trees. Sparse wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia aneura</i> var. <i>intermedia</i> , <i>Casuarina pauper</i> , <i>Santalum spicatum</i>
Shrubs 1-2 metres	<i>Eremophila georgei</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Eremophila scoparia</i> , <i>Psydrax suaveolens</i>
Shrubs 0.5-1 metres	<i>Dodonaea lobulata</i> , <i>Scaevola spinescens</i>
Shrubs <0.5 metres	<i>Acacia kempeana</i> , <i>Acacia sibirica</i> , <i>Frankenia cinerea</i> , <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Eriachne mucronata</i> (arid form) (MET 12 736)



Phase 2 Site Descriptions Tropicana Operational Area

Site 77

Described Date Type: Quadrat 20 x 20
MGA Zone 50 659813 mE 6758588 mN
Habitat Rocky hill top
Soil pale brown sandy clay loam
Rock Type sandstone
Vegetation open *Acacia aneura* varieties and *Casuarina pauper* low trees to tall shrubs over isolated *Eremophila* species medium shrubs over open *Sida calyxhymenia* low shrubs over open *Senna artemisioides* ssp *artemisioides* and *Ptilotus obovatus* very low shrubs over open mixed grasses
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under shrubs. Moderate wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>?argentea</i> , <i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>intermedia</i> , <i>Casuarina pauper</i>
Shrubs 1-2 metres	<i>Acacia tetragonophylla</i> , <i>Eremophila georgei</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i>
Shrubs 0.5-1 metres	<i>Dodonaea lobulata</i> , <i>Scaevola spinescens</i> , <i>Sida atrovirens</i> , <i>Sida calyxhymenia</i>
Shrubs <0.5 metres	<i>Maireana sedifolia</i> , <i>Maireana</i> sp., <i>Maireana</i> sp.2, <i>Ptilotus obovatus</i> , <i>Rhagodia eremaea</i> , <i>Senna artemisioides</i> subsp. <i>x artemisioides</i> , <i>Solanum lasiophyllum</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>
Tussock and annual grasses	<i>Amphipogon carcinus</i> var. <i>carcinus</i> , <i>Aristida holathera</i> var. <i>holathera</i> , <i>Enneapogon polyphyllus</i> , <i>Enteropogon ramosus</i> , <i>Eragrostis pergracilis</i> , <i>Eragrostis setifolia</i> , <i>Eriachne mucronata</i> (arid form) (MET 12 736), <i>Thyridolepis xerophila</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 78

Described	Date	Type: Quadrat 20 x 20
MGA Zone	50	659073 mE 6757575 mN
Habitat	flat sand plain	
Soil	red orange clayey sand	
Rock Type	nil	
Vegetation	isolated <i>Eucalyptus gongylocarpa</i> low trees over open <i>Eucalyptus socialis</i> subsp. <i>victoriensis</i> and <i>Eucalyptus socialis</i> subsp. <i>victoriensis</i> mallee trees over sparse mixed medium shrubs over open <i>Triodia basedowii</i> hummock grasses	
Veg Condition	pristine	
Fire	moderate	
Notes	Sparse leaf litter, mainly under shrubs. Moderate wood litter.	

Species List:

Trees <5 metres	<i>Codonocarpus cotinifolius</i> , <i>Eucalyptus gongylocarpa</i>
Mallees	<i>Eucalyptus effusa</i> , <i>Eucalyptus socialis</i> subsp. <i>victoriensis</i>
Shrubs 1-2 metres	<i>Acacia murrayana</i> , <i>Eremophila exilis</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i> , <i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>
Shrubs 0.5-1 metres	<i>Acacia prainii</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>
Shrubs <0.5 metres	<i>Acacia colletioides</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i> , <i>Indigofera georgei</i> , <i>Ptilotus obovatus</i> , <i>Solanum lasiophyllum</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i> , <i>Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Eragrostis xerophila</i>
Twiners	<i>Rhyncharrhena linearis</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 79

Described Date Type: Quadrat 20 x 20
MGA Zone 50 657026 mE 6756879 mN
Habitat low rise of low broad hill
Soil red sandy loam
Rock Type quartz gravel
Vegetation open *Casuarina pauper* medium trees over sparse *Eremophila scoparia* medium shrubs over sparse *Maireana sedifolia* low shrubs over sparse *Triodia scariosa* hummock grassland
Veg Condition pristine
Fire nil
Notes moderate leaf litter mainly under shrubs. Sparse wood litter.

Species List:

Trees 5-15 metres	<i>Casuarina pauper</i>
Trees <5 metres	<i>Acacia aneura</i> var. <i>intermedia</i> , <i>Santalum spicatum</i>
Shrubs 1-2 metres	<i>Acacia nyssophylla</i> , <i>Acacia tetragonophylla</i> , <i>Eremophila georgei</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Eremophila scoparia</i> , <i>Scaevola spinescens</i>
Shrubs 0.5-1 metres	<i>Dodonaea lobulata</i> , <i>Maireana sedifolia</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> , <i>Sida calyxhymenia</i>
Shrubs <0.5 metres	<i>Maireana trichoptera</i> , <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>
Hummock grasses	<i>Triodia scariosa</i>
Tussock and annual grasses	<i>Paspalidium basicladum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 82

Described CCS Date Type: Quadrat 20 x 20
MGA Zone 50 663308 mE 6770484 mN
Habitat Wetland / salt flat boundary / surround
Soil red sandy-clay
Rock Type No rocks
Vegetation Mixed scattered emergent *Acacia aneura* var. *aneura* / *Acacia aneura* var. *argentea*, and *Melaleuca interioris* low trees over moderately dense medium shrubland, over mixed Chenopods and mixed grasses.
Veg Condition Pristine
Fire None evident
Notes Plentiful leaf litter, mainly under shrubs and plentiful wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i>
Shrubs 1-2 metres	<i>Melaleuca interioris</i>
Shrubs 0.5-1 metres	<i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Atriplex vesicaria</i> , <i>Maireana tomentosa</i> , <i>Olearia decurrens</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Rhagodia eremaea</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enteropogon ramosus</i>
Herbs	<i>Atriplex vesicaria</i> , <i>Ptilotus polystachyus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 83

Described RG Date 13/06/200 Type: Quadrat 20 x 20
MGA Zone 50 663519 mE 6770334 mN
Habitat Clay pan
Soil pale orange clay
Rock Type No rocks
Vegetation Sparse *Muehlenbeckia florulenta* medium shrubs over low sparse shrubland dominated by *Atriplex vesicaria* and *Frankenia fecunda* over soft grasses.
Veg Condition Pristine
Fire None evident
Notes Sparse leaf litter, only under shrubs and negligible wood litter

Species List:

Shrubs 1-2 metres	<i>Muehlenbeckia florulenta</i>
Shrubs <0.5 metres	<i>Atriplex vesicaria</i> , <i>Boerhavia coccinea</i> , <i>Frankenia cinerea</i> , <i>Tecticornia indica</i> subsp. <i>bidens</i> , <i>Solanum lasiophyllum</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Eragrostis dielsii</i> , <i>Eragrostis pergracilis</i>
Herbs	<i>Dysphania kalpari</i> , <i>Erodium aureum</i> , <i>Nicotiana sp.</i> , <i>Senecio pinnatifolius</i> , <i>Sonchus oleraceus</i> , <i>Vittadinia ?sulcata</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 84

Described CCS Date 5/07/2007 Type: Quadrat 20 x 20
Season E
MGA Zone 50 649150 mE 6747622 mN
Habitat Clay pan in a depression
Soil pale orange loamy clay
Rock Type nil
Vegetation isolated *Acacia nyssophylla* and *Grevillea sarissa* medium shrubs over open *Zygophyllum aurantiacum* and herbs over sparse *Enneapogon caerulescens* soft grasses
Veg Condition Poor, heavily grazed
Fire Nil
Notes Negligible leaf litter and negligible wood litter

Species List:

Shrubs 1-2 metres	<i>Acacia nyssophylla</i> , <i>Grevillea sarissa</i>
Tussock and annual grasses	<i>Enneapogon caerulescens</i> (do not use), <i>Eragrostis dielsii</i>
Herbs	<i>Euphorbia drummondii</i> , <i>PAPILIONACEAE</i> sp., <i>Sclerolaena symoniana</i> , <i>Vittadinia</i> sp., <i>Zygophyllum aurantiacum</i> , <i>Zygophyllum ermaeum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 85

Described Date Type: Quadrat 20 x 20
MGA Zone 50 648831 mE 6747928 mN
Habitat base of dune
Soil red orange sandy clay
Rock Type nil
Vegetation sparse *Eucalyptus gongylocarpa* medium trees and sparse *Eucalyptus concinna* mallee trees over sparse *Dodonaea viscosa* subsp. *angustissima* tall shrubs over sparse *Senna artemisioides* subsp. *petiolaris* medium shrubs over *Acacia camptoclada* low shrubs over sparse *Eremophila platythamnos* subsp. *platythamnos* very low shrubs over sparse *Triodia desertorum* hummock grasses
Veg Condition good
Fire old
Notes moderate leaf litter mainly under shrubs. Sparse wood litter.

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Mallees	<i>Eucalyptus concinna</i>
Shrubs >2 metres	<i>Acacia prainii</i> , <i>Callitris preissii</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i>
Shrubs 1-2 metres	<i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs 0.5-1 metres	<i>Acacia camptoclada</i> , <i>Westringia rigida</i>
Shrubs <0.5 metres	<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn</i> (B.W. Strong 676), <i>Olearia exiguifolia</i> , <i>Olearia subspicata</i> , <i>Westringia rigida</i>
Tussock and annual grasses	<i>Triodia ? desertorum</i>
Sedges and sedge-like	<i>Lomandra leucocephala</i> subsp. <i>robusta</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 87

Described RG Date 13/07/200 Type: Quadrat 20 x 20
Season E
MGA Zone 50 660872 mE 6770549 mN
Habitat flat plain
Soil red orange sandy clay
Rock Type nil
Vegetation isolated *Acacia sibirica* low trees over moderately dense *Melaleuca interioris* tall to medium shrubs over sparse *Chenopodium desertorum* subsp. *rectum* very low shrubs over sparse *Enteropogon ramosus* soft grasses
Veg Condition Poor, heavily grazed and pocked by rabbits
Fire moderate
Notes Sparse leaf litter, mainly under shrubs. Sparse wood litter.

Species List:

Trees <5 metres	<i>Acacia sibirica</i>
Shrubs >2 metres	<i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Melaleuca interioris</i>
Shrubs 1-2 metres	<i>Acacia rigens</i> , <i>Muehlenbeckia florulenta</i>
Shrubs 0.5-1 metres	<i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Atriplex vesicaria</i> , <i>Chenopodium desertorum</i> subsp. <i>rectum</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i> , <i>Maireana villosa</i> , <i>Olearia decurrens</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Enteropogon ramosus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 92

Described CCS Date 13/06/200 Type: Quadrat 20 x 20
 Season E
 MGA Zone 50 661606 mE 6769897 mN
 Habitat Lower hill slope
 Soil Red-orange / sandy clay
 Rock Type No rocks
 Vegetation isolated *Pittosporum angustifolium* low trees, over open *Acacia burkittii* and *Senna artemisioides* subsp. *petiolaris* tall shrubland.
 Veg Condition Pristine
 Fire None evident
 Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees <5 metres	<i>Alectryon oleifolius</i> subsp. <i>canescens</i> , <i>Pittosporum angustifolium</i>
Shrubs >2 metres	<i>Acacia burkittii</i>
Shrubs 1-2 metres	<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Pittosporum angustifolium</i>
Shrubs 0.5-1 metres	<i>Rhagodia eremaea</i>
Shrubs <0.5 metres	<i>Atriplex nummularia</i> , <i>Atriplex vesicaria</i> , <i>Maireana tomentosa</i> , <i>Maireana villosa</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Sclerolaena patenticuspis</i> , <i>Solanum lasiophyllum</i> , <i>Solanum sp.</i> , <i>Zygophyllum eremaeum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Aristida holathera</i> var. <i>holathera</i> , <i>Enneapogon caerulescens</i> var. <i>caerulescens</i> , <i>Enneapogon polyphyllus</i> , <i>Eragrostis xerophila</i> , <i>Monachather paradoxus</i> , <i>Paspalidium basicladum</i> , <i>Thyridolepis xerophila</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 103

Described Date Type: Quadrat 20 x 20
MGA Zone 50 647335 mE 6761522 mN
Habitat Plain / flat
Soil Red-orange sand
Rock Type No rocks
Vegetation *Eucalyptus trivalva* low woodland, over moderately dense *Callitris* sp, low trees over open *Triodia desertorum* hummock grass.
Veg Condition excellent
Fire moderate
Notes sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees <5 metres	<i>Callitris</i> sp.
Mallees	<i>Eucalyptus trivalva</i> (do not use)
Shrubs 1-2 metres	<i>Acacia eremophila</i> numerous-nerved variant (A.S. George 11924)
Shrubs <0.5 metres	<i>Acacia prainii</i> , <i>Scaevola spinescens</i>
Tussock and annual grasses	<i>Triodia desertorum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 104

Described Date Type: Quadrat 20 x 20
MGA Zone 50 646662 mE 6762363 mN
Habitat Undulating plain
Soil Red-orange sandy clay
Rock Type No rocks
Vegetation *Eucalyptus gongylocarpa* / *Callitris columellaris* open low woodland, over sparse mixed tall shrubs over *Triodia basedowii* hummock grass.
Veg Condition Pristine
Fire None evident
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Trees <5 metres	<i>Callitris preissii</i>
Shrubs >2 metres	<i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>
Shrubs 1-2 metres	<i>Acacia ligulata</i> , <i>Acacia prainii</i> , <i>Alyxia buxifolia</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i>
Shrubs 0.5-1 metres	<i>Scaevola spinescens</i> , <i>Senna pleurocarpa</i> var. <i>pleurocarpa</i> , <i>Westringia rigida</i>
Shrubs <0.5 metres	<i>Alyxia buxifolia</i> , <i>Pimelea microcephala</i> subsp. <i>microcephala</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 106

Described RG Date 11/06/200 Type: Quadrat 20 x 20
Location Tropicana
MGA Zone 50 646058 mE 6763180 mN
Habitat Broad dune / sand hill slope
Soil Loose yellow-orange sand
Rock Type Nil
Vegetation Sparse *Eucalyptus gongylocarpa* mallee trees, over moderately dense *Thryptomene biseriata* / *Aluta maisonneuvei* subsp. *auriculata* medium to low shrubs, over sparse *Triodia desertorum* hummock grass.
Notes Sparse leaf litter mainly under shrubs, sparse wood litter

Species List:

Mallees	<i>Eucalyptus youngiana</i>
Shrubs 1-2 metres	<i>Grevillea juncifolia</i> , <i>Thryptomene biseriata</i>
Shrubs 0.5-1 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Baeckea</i> sp. <i>Gt. Victoria Desert (A.S. Weston 14813)</i> , <i>Solanum plicatile</i>
Tussock and annual grasses	<i>Amphipogon carcinus</i> var. <i>carcinus</i> , <i>Aristida contorta</i> , <i>Triodia desertorum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 107

Described	Date Type: Quadrat 20 x 20
MGA Zone	50 643295 mE 6763245 mN
Habitat	Dune swale
Soil	Red-orange sand
Rock Type	No rocks
Vegetation	Open <i>Eucalyptus youngiana</i> / <i>Eucalyptus oleosa</i> subsp. <i>oleosa</i> / <i>Acacia aneura</i> var. <i>argentea</i> low trees, over <i>Acacia ramulosa</i> var. <i>ramulosa</i> / <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> low shrubs, over open <i>Triodia desertorum</i> hummock grass.
Veg Condition	Pristine
Fire	None evident
Notes	Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>
Trees <5 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Eucalyptus gongylocarpa</i> , <i>Eucalyptus youngiana</i>
Mallees	<i>Eucalyptus concinna</i> , <i>Eucalyptus youngiana</i>
Shrubs >2 metres	<i>Acacia ?ayersiana</i> , <i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs 1-2 metres	<i>Acacia ramulosa</i> var. <i>ramulosa</i>
Shrubs 0.5-1 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Baeckea</i> sp. <i>Gt. Victoria Desert (A.S. Weston 14813)</i>
Shrubs <0.5 metres	<i>Dodonaea microzyga</i> var. <i>acrolobata</i>
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Eriachne mucronata</i> (<i>desert form</i>), <i>Triodia basedowii</i> , <i>Triodia desertorum</i>
Twiners	<i>Thysanotus manglesianus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 112

Described Date Type: Quadrat 20 x 20
MGA Zone 50 647629 mE 6766746 mN
Habitat Rocky slope
Soil Pale-orange/sandy-clay
Rock Type Sandstone
Vegetation Mixed moderately dense *Acacia aneura* var. *argentea* / *Acacia aneura* var. *intermedia* low woodland over moderately dense mixed high shrubs of dominantly *Eremophila latrobei* subsp. *latrobei* / *Dodonaea rigida*, over *Triodia basedowii* hummock grass.
Veg Condition Excellent
Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia aneura</i> var. <i>intermedia</i> , <i>Acacia sibirica</i>
Shrubs 1-2 metres	<i>Acacia quadrimarginea</i> , <i>Acacia sibirica</i> , <i>Eremophila georgei</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Pittosporum angustifolium</i> , <i>Psydrax suaveolens</i>
Shrubs 0.5-1 metres	<i>Alyxia buxifolia</i> , <i>Dodonaea rigida</i> , <i>Psydrax latifolia</i> , <i>Sida calyxhymenia</i>
Shrubs <0.5 metres	<i>Jasminum</i> sp., <i>Maireana tomentosa</i> , <i>Senna artemisioides</i> subsp. <i>artemisioides</i> , <i>Sida calyxhymenia</i> , <i>Solanum lasiophyllum</i> , <i>Spartothamnella teucriflora</i>
Tussock and annual grasses	<i>Amphipogon caricinus</i> var. <i>caricinus</i> , <i>Aristida contorta</i> , <i>Eragrostis eriopoda</i> , <i>Eriachne mucronata</i> (desert form), <i>Paspalidium basicladum</i>
Herbs	<i>Abutilon leucopetalum</i> , <i>Cheilanthes sieberi</i> subsp. <i>sieberi</i> , <i>Sida calyxhymenia</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 113

Described RG Date 11/06/200 Type: Quadrat 20 x 20
MGA Zone 50 647800 mE 6766758 mN
Habitat Gully base
Soil red orange sandy clay
Rock Type Granite
Vegetation Open *Acacia aneura* var. *aneura* low trees, over moderately dense *Acacia quadrimarginea* high shrubs, over open *Ptilotus obovatus* var. *obovatus* low shrubs, over sparse *Aristida* sp.
Veg Condition Pristine

Species List:

Shrubs >2 metres	<i>Acacia quadrimarginea</i>
Shrubs 1-2 metres	<i>Chenopodium gaudichaudianum</i> , <i>Chenopodium nitrariaceum</i> , <i>Dodonaea rigida</i> , <i>Eremophila georgei</i> , <i>Jasminum</i> sp., <i>Pittosporum angustifolium</i>
Shrubs 0.5-1 metres	<i>Maireana villosa</i> , <i>Senna artemisioides</i> subsp. <i>artemisioides</i> , <i>Sida calyxhymenia</i>
Shrubs <0.5 metres	? <i>Jasminum</i> sp., <i>Chrysocephalum apiculatum</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Sida</i> sp., <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Aristida</i> sp.
Herbs	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 114

Described Date Type: Quadrat 20 x 20
MGA Zone 50 647884 mE 6766727 mN
Habitat Rocky breakaway slope
Soil pale orange sandy clay
Rock Type sand stone
Vegetation Open *Acacia quadrimarginea* tall shrubland, over open *Senna artemisioides* subsp. *artemisioides* medium shrubs, over mixed soft grasses.
Veg Condition Pristine
Fire none evident
Notes Sparse leaf litter mainly under shrubs, sparse wood litter

Species List:

Shrubs >2 metres	<i>Acacia quadrimarginea</i>
Shrubs 1-2 metres	<i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Senna artemisioides</i> subsp. <i>artemisioides</i> , <i>Sida calyxhymenia</i>
Shrubs 0.5-1 metres	<i>Dodonaea rigida</i>
Shrubs <0.5 metres	<i>Abutilon</i> sp., <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Sida fibulifera</i>
Tussock and annual grasses	<i>Digitaria brownii</i> , <i>Enneapogon polyphyllus</i> , <i>Eragrostis pergracilis</i> , <i>Eriachne pulchella</i> subsp. <i>pulchella</i>
Herbs	? <i>Boerhavia</i> sp., <i>Cheilanthes sieberi</i> subsp. <i>sieberi</i> , <i>Chenopodium melanocarpum</i> forma <i>melanocarpum</i>
Twiners	<i>Marsdenia australis</i>



Phase 2 Site Descriptions Tropicana Operational Area Site 120

Described CCS Date 13/06/200 Type: Quadrat 20 x 20
MGA Zone 50 663688 mE 6763544 mN
Habitat Plain / flat
Soil Red sandy-clay
Rock Type No rocks
Vegetation Sparse *Acacia aneura* var. *aneura*, low woodland, over sparse *Ptilotus obovatus* low shrubs, over open mixed soft grasses.
Veg Condition Pristine
Fire None evident
Notes Sparse leaf litter mainly under shrubs, sparse wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> , <i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia ayersiana</i>
Shrubs 1-2 metres	<i>Acacia ramulosa</i> var. <i>ramulosa</i>
Shrubs 0.5-1 metres	<i>Rhagodia eremaea</i>
Shrubs <0.5 metres	<i>Abutilon</i> sp., <i>Eremophila gilesii</i> subsp. <i>variabilis</i> , <i>Maireana</i> ? <i>villosa</i> , <i>Maireana</i> sp.1, <i>Maireana</i> sp.2, <i>Maireana villosa</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Salsola australis</i> , <i>Sclerolaena convexula</i> , <i>Sclerolaena diacantha</i> , <i>Solanum ferocissimum</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Enteropogon ramosus</i> , <i>Eragrostis xerophila</i> , <i>Monachather paradoxus</i>
Herbs	<i>Boerhavia coccinea</i> , <i>Brachyscome</i> sp., <i>Chrysocephalum puteale</i> , <i>Erodium</i> sp., <i>Euphorbia</i> sp., <i>Sclerolaena convexula</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 121

Described Date Type: Quadrat 20 x 20
MGA Zone 50 661648 mE 6769717 mN
Habitat Clay pan
Soil Pale orange clay
Rock Type No rocks
Vegetation Moderately dense dwarf shrubland of *Frankenia fecunda*, over scattered *Dysphania kalpari* herbs and *Eragrostis pergracilis* grasses.
Veg Condition Excellent
Fire None evident

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i>
Shrubs <0.5 metres	<i>Atriplex vesicaria</i> , <i>Frankenia cinerea</i> , <i>Maireana</i> sp.2
Tussock and annual grasses	<i>Eragrostis pergracilis</i>
Herbs	<i>Dysphania kalpari</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 126

Described CCS Date 12/06/200 Type: Quadrat 20 x 20
 MGA Zone 50 642398 mE 6751683 mN
 Habitat Dune crest
 Soil Yellow sand
 Rock Type No rocks
 Vegetation Scattered *Eucalyptus gongylocarpa* low trees, over open mixed low shrubland of *Anthotroche pannosa* / *Pityrodia loricata* / *Dicrastylis nicholasii* (Priority 2), over sparse *Lomandra leucocephala* subsp. *robusta* herbs and sparse *Triodia ?basedowii* hummock grass.
 Veg Condition Pristine
 Fire Moderate
 Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees <5 metres	<i>Callitris columellaris</i> , <i>Codonocarpus cotinifolius</i> , <i>Eucalyptus gongylocarpa</i>
Shrubs 0.5-1 metres	<i>Acacia jamesiana</i> , <i>Acacia ligulata</i> , <i>Duboisia hopwoodii</i> , <i>Persea coriacea</i>
Shrubs <0.5 metres	<i>Anthotroche pannosa</i> , <i>Bertya dimerostigma</i> , <i>Chrysocephalum puteale</i> , <i>Commersonia melanopetala</i> , <i>Dampiera stenophylla</i> , <i>Dicrastylis nicholasii</i> , <i>Glischrocaryon aureum</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Logania nuda</i> , <i>Lomandra leucocephala</i> subsp. <i>robusta</i> , <i>Pityrodia loricata</i> , <i>Scaevola basedowii</i> , <i>Thryptomene biseriata</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i> , <i>Triodia desertorum</i>
Herbs	<i>Dampiera ramosa</i>
Sedges and sedge-like	<i>Lepidobolus deserti</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 127

Described Date Type: Quadrat 20 x 20
MGA Zone 50 663517 mE 6770396 mN
Habitat Clay pan
Soil Red-orange cracked clay
Rock Type No rocks
Vegetation Low open shrubland dominated by *Tecticornia indica* subsp. *bidens* / *Frankenia fecunda*, over open soft grasses.
Veg Condition Pristine
Notes Negligible wood and leaf litter

Species List:

Shrubs <0.5 metres	<i>Centaurium spicatum</i> , <i>Frankenia cinerea</i> , <i>Tecticornia</i> ?aff. <i>undulata</i> , <i>Tecticornia indica</i> subsp. <i>bidens</i>
Hummock grasses	<i>Triodia mollis</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Bulbostylis barbata</i> , <i>Centrolepis eremica</i> , <i>Enneapogon caerulescens</i> , <i>Eragrostis eriopoda</i> , <i>Eragrostis pergracilis</i> , <i>Spergularia rubra</i>
Herbs	<i>Dysphania kalpari</i> , <i>Frankenia fecunda</i> , <i>Senecio pinnatifolius</i> , <i>Swainsona</i> ? <i>formosa</i> , <i>Velleia glabrata</i> , <i>Velleia hispida</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 128

Described Date Type: Quadrat 20 x 20
MGA Zone 50 643714 mE 6753178 mN
Habitat Undulating plain
Soil Red-orange sand
Rock Type No rocks
Vegetation Open *Eucalyptus trivalva* over sparse mixed shrubs and *Triodia basedowii* and soft grasses
Veg Condition Excellent
Fire Moderate
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Mallees	<i>Eucalyptus trivalva</i>
Shrubs 1-2 metres	<i>Acacia ligulata</i>
Shrubs 0.5-1 metres	<i>Acacia burkittii</i> , <i>Duboisia hopwoodii</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>
Shrubs <0.5 metres	<i>Bertya dimerostigma</i> , <i>Dicrastylis ?sp. Cundeeleensis (D.J. Pearson 101)</i> , <i>Dicrastylis brunnea</i> , <i>Scaevola parvifolia</i> , <i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Eragrostis eriopoda</i> , <i>Eriachne helmsii</i>
Hummock grasses	<i>Triodia basedowii</i>
Herbs	<i>Goodenia xanthosperma</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 130

Described CCS Date 10/06/200 Type: Quadrat 20 x 20
MGA Zone 50 648053 mE 6761099 mN
Habitat Undulating plain
Soil Orange clayey sand
Rock Type Nil
Vegetation Sparse *Eucalyptus leptopoda* subsp. *elevata* low mallee, over moderately dense *Acacia jamesiana* medium shrubland, over open *Triodia desertorum* hummock grassland.
Veg Condition Pristine
Notes Moderate leaf litter mainly under shrubs, sparse wood litter

Species List:

Mallees	<i>Eucalyptus leptopoda</i> subsp. <i>elevata</i>
Shrubs 1-2 metres	<i>Acacia jamesiana</i> , <i>Duboisia hopwoodii</i>
Shrubs <0.5 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Baeckea</i> sp. <i>Gt. Victoria Desert (A.S. Weston 14813)</i> , <i>Baeckea</i> sp. <i>Sandstone (C.A. Gardner s.n. 26 Oct. 1963)</i> , <i>Bertya dimerostigma</i> , <i>Leptospermum fastigiatum</i>
Hummock grasses	<i>Triodia desertorum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 136

Described CCS Date 4/07/2007 Type: Quadrat 20 x 20
 MGA Zone 50 645567 mE 6750830 mN
 Habitat linear dune crest
 Soil yellow orange sand
 Rock Type nil
 Vegetation isolated *Eucalyptus gongylocarpa* low trees over sparse *Conospermum toddii* medium shrubs over open *Pityrodia loricata*, *Anthotroche pannosa*, *Chrysocephalum puteale* and *Scaevola basedowii* very low shrubs over sparse *Caesia* sp. *talingka* ms (C. Tauss) sedges over isolated *Triodia desertorum* hummock grasses
 Veg Condition excellent
 Fire nil
 Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees <5 metres	<i>Callitris preissii</i> , <i>Eucalyptus gongylocarpa</i> , <i>Gyrostemon ramulosus</i>
Shrubs 1-2 metres	<i>Conospermum toddii</i> , <i>Grevillea stenobotrya</i>
Shrubs 0.5-1 metres	<i>Daviesia grahamii</i>
Shrubs <0.5 metres	<i>Acacia acanthoclada</i> subsp. <i>acanthoclada</i> , <i>Anthotroche pannosa</i> , <i>Chrysocephalum puteale</i> , <i>Dampiera stenophylla</i> , <i>Dicrastylis ?nicholasii</i> , <i>Glischrocaryon aureum</i> , <i>Grevillea nematophylla</i> subsp. <i>planicosta</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Hybanthus floribundus</i> subsp. <i>floribundus</i> , <i>Lechenaultia striata</i> , <i>Malleostemon</i> sp. <i>Officer Basin</i> (D. Pearson 350), <i>Micromyrtus stenocalyx</i> , <i>Newcastelia hexarrhena</i> , <i>Pomax</i> sp. <i>desert</i> (A.S. George 11968), <i>Scaevola basedowii</i> , <i>Thryptomene biseriata</i>
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Aristida contorta</i>
Herbs	<i>Commersonia melanopetala</i> , <i>Dampiera ramosa</i>
Sedges and sedge-like	<i>Caesia</i> sp. <i>talingka</i> ms (C. Tauss), <i>Lepidobolus deserti</i> , <i>Lomandra leucocephala</i> subsp. <i>robusta</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 137

Described CCS Date 12/06/200 Type: Quadrat 20 x 20
 MGA Zone 50 657033 mE 6762599 mN
 Habitat Plain
 Soil Red-orange / sandy clay
 Rock Type No rocks
 Vegetation Open *Eucalyptus effusa* medium trees, over sparse mixed height shrub layer, over open *Triodia basedowii* hummock grass.
 Veg Condition Pristine
 Fire Moderate
 Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>intermedia</i> , <i>Acacia aneura</i> x <i>ayersiana</i> , <i>Eucalyptus effusa</i>
Mallees	<i>Eucalyptus trivalva</i> (do not use)
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i>
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Acacia colletioides</i> , <i>Acacia tetragonophylla</i> , <i>Eremophila alternifolia</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs 0.5-1 metres	<i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Dicrastylis brunnea</i> , <i>Eremophila latrobei</i> subsp. <i>filiformis</i> , <i>Maireana tomentosa</i> , <i>Ptilotus exaltatus</i> var. <i>exaltatus</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Sclerolaena diacantha</i> , <i>Senna artemisioides</i> subsp. <i>x artemisioides</i> , <i>Sida atrovirens</i> , <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i> , <i>Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Eragrostis eriopoda</i> , <i>Monachather paradoxus</i> , <i>Paspalidium basicladum</i>
Herbs	<i>Zygophyllum</i> sp.



Phase 2 Site Descriptions Tropicana Operational Area

Site 138

Described Date Type: Quadrat 20 x 20
MGA Zone 50 647285 mE 6746644 mN
Habitat Swale with negligible slope
Soil Red-orange / sandy clay
Rock Type Quartz
Vegetation Open mixed aneura tall shrubs over open *Aluta maisonneuvei* subsp. *auriculata* medium shrubs over sparse *Eremophila forrestii* low shrubs
Notes Moderate leaf litter, mainly under shrubs and sparse wood litter

Species List:

Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>intermedia</i> , <i>Acacia kempeana</i>
Shrubs 0.5-1 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Prostanthera sericea</i>
Shrubs <0.5 metres	<i>Eremophila forrestii</i> subsp. <i>forrestii</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Amphipogon carcinus</i> var. <i>carcinus</i> , <i>Eragrostis eriopoda</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 141

Described Date Type: Quadrat 20 x 20
MGA Zone 50 648597 mE 6744213 mN
Habitat Plain
Soil Red-orange clayey sand
Rock Type No rocks
Vegetation Open *Eucalyptus trivalva* over isolated to sparse mixed tall to medium shrubs
Veg Condition Pristine
Fire Nil
Notes Moderate leaf litter, mainly under Mallee and sparse wood litter

Species List:

Mallees	<i>Eucalyptus trivalva</i> (do not use)
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Hakea francisiana</i>
Shrubs 0.5-1 metres	<i>Acacia colletioides</i> , <i>Grevillea nematophylla</i> subsp. <i>planicosta</i>
Shrubs <0.5 metres	<i>Acacia prainii</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Eremophila subfloccosa</i> subsp. <i>lanata</i>
Tussock and annual grasses	<i>Eriachne mucronata</i> (arid form) (MET 12 736)



Phase 2 Site Descriptions Tropicana Operational Area

Site 142

Described CCS Date 7/07/2007 Type: Quadrat 20 x 20
MGA Zone 50 648374 mE 6743744 mN
Habitat Dune slope north side with moderate to gentle slope
Soil Orange yellow sand
Rock Type No rocks
Vegetation sparse *Callitris columellaris* tall shrubs over open *Thryptomene biseriata* low shrubs over sparse *Acacia acanthoclada* and *Anthotroche pannosa* very low shrubs over isolated *Triodia basedowii* hummock grassland
Veg Condition Pristine
Fire Nil
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Shrubs >2 metres	<i>Callitris columellaris</i>
Shrubs 1-2 metres	<i>Grevillea juncifolia</i> subsp. <i>temulenta</i>
Shrubs 0.5-1 metres	<i>Thryptomene biseriata</i>
Shrubs <0.5 metres	<i>Acacia</i> aff. <i>sorophylla</i> , <i>Anthotroche pannosa</i> , <i>Chrysocephalum puteale</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn</i> (B.W. Strong 676)
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eriachne helmsii</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 143

Described CCS Date 7/07/2007 Type: Quadrat 20 x 20
MGA Zone 50 649089 mE 6743561 mN
Habitat Flat/plain, negligible slope.
Soil Pale red orange loamy clay with surface crust
Rock Type No rocks
Vegetation Moderately dense mixed *Acacia aneura* varieties over sparse *Acacia aneura* regrowth medium to low shrubs over sparse *Triodia basedowii* hummock grasses
Veg Condition Pristine
Fire Nil
Notes Plentiful widespread leaf litter and plentiful wood litter

Species List:

Trees 5-15 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i>
Shrubs 1-2 metres	<i>Eremophila</i> sp.
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eragrostis setifolia</i> , <i>Monachather paradoxus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 144

Described CCS Date 7/07/2007 Type: Quadrat 20 x 20
MGA Zone 50 647790 mE 6744796 mN
Habitat very low linear dune crest
Soil orange yellow sand
Rock Type nil
Vegetation sparse *Grevillea juncifolia* subsp. *temulenta* and *Leptospermum fastigiatum* medium shrubs over sparse mixed very low shrubs over sparse *Lepidobolus deserti* rushes over sparse *Triodia basedowii* hummock grasses
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Shrubs >2 metres	<i>Callitris columellaris</i>
Shrubs 1-2 metres	<i>Grevillea juncifolia</i> subsp. <i>temulenta</i> , <i>Leptospermum fastigiatum</i>
Shrubs 0.5-1 metres	<i>Acacia heteroneura</i> var. <i>jutsonii</i>
Shrubs <0.5 metres	<i>Acacia acanthoclada</i> , <i>Anthotroche pannosa</i> , <i>Bertya dimerostigma</i> , <i>Logania nuda</i> , <i>Newcastelia hexarrhena</i> , <i>Pityrodia loricata</i> , <i>Thryptomene biseriata</i>
Hummock grasses	<i>Triodia basedowii</i>
Sedges and sedge-like	<i>Lepidobolus deserti</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 145

Described Date Type: Quadrat 20 x 20
MGA Zone 50 649593 mE 6749151 mN
Habitat Undulating plain
Soil Red orange loamy sand
Rock Type nil
Vegetation open mixed mallee trees including *Eucalyptus concinna*, *Eucalyptus trivalva*, and *Eucalyptus concinna* over sparse mixed *Daviesia benthamii* subsp. *acanthoclona* very low shrubs over open *Triodia scariosa* subsp. *scariosa* hummock grasses
Veg Condition Pristine
Fire moderate
Notes Sparse leaf litter, mainly under mallees and sparse wood litter

Species List:

Trees <5 metres	<i>Codonocarpus cotinifolius</i>
Mallees	<i>Eucalyptus concinna</i> , <i>Eucalyptus sp.</i> , <i>Eucalyptus trivalva</i> (do not use)
Shrubs 0.5-1 metres	<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i>
Shrubs <0.5 metres	<i>Acacia ?heteroneura</i> , <i>Acacia prainii</i> , <i>Alyogyne pinoniana</i> , <i>Eremophila paisleyi</i> subsp. <i>paisleyi</i> , <i>Eremophila platyhamnos</i> subsp. <i>platyhamnos</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn</i> (B.W. Strong 676), <i>Senna pleurocarpa</i> var. <i>pleurocarpa</i> , <i>Templetonia aculeata</i>
Hummock grasses	<i>Triodia scariosa</i> subsp. <i>scariosa</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 146

Described SH Date 5/07/2007 Type: Quadrat 20 x 20
Season E
MGA Zone 50 650709 mE 6752109 mN
Habitat Flat plain
Soil Red orange sand
Rock Type nil
Vegetation Open *Eucalyptus concinna* mallee trees over sparse *Daviesia benthamii* subsp. *acanthoclona* and *Hakea lorea* subsp. *lorea* very low shrubs over moderately dense *Triodia scariosa* hummock grasses
Veg Condition good
Fire moderate
Notes Negligible wood and leaf litter

Species List:

Mallees	<i>Eucalyptus concinna</i> , <i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>
Shrubs 0.5-1 metres	<i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i> , <i>Eremophila subfloccosa</i> subsp. <i>lanata</i> , <i>Hakea lorea</i> subsp. <i>lorea</i> , <i>Hakea rhombales</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i>
Hummock grasses	<i>Triodia scariosa</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 147

Described	CCS	Date	5/07/2007	Type:	Quadrat 20 x 20
Season	E				
MGA Zone	50	645454 mE	6745506 mN		
Habitat	Interdune swale				
Soil	red orange sand				
Rock Type	nil				
Vegetation	sparse <i>Eucalyptus gongylocarpa</i> low trees over sparse <i>Eucalyptus concinna</i> mallee trees over sparse <i>Acacia jamesiana</i> low shrubs over open <i>Anthotroche pannosa</i> and <i>Dicrastylis nicholasii</i> very low shrubs over open <i>Triodia desertorum</i> hummock grasses				
Veg Condition	moderate				
Fire	moderate				
Notes	Sparse leaf litter, mainly under trees and sparse wood litter				

Species List:

Trees <5 metres	<i>Codonocarpus cotinifolius</i> , <i>Eucalyptus gongylocarpa</i>
Mallees	<i>Eucalyptus concinna</i>
Shrubs 0.5-1 metres	<i>Acacia jamesiana</i> , <i>Duboisia hopwoodii</i> , <i>Goodenia elderi</i>
Shrubs <0.5 metres	? <i>Stackhousia megaloptera</i> , <i>Acacia</i> aff. <i>sorophylla</i> , <i>Acacia ligulata</i> , <i>Adriana urticoides</i> var. <i>hookeri</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Alyogyne pinoniana</i> , <i>Dicrastylis ?nicholasii</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Microcorys macredieana</i> , <i>Newcastelia hexarrhena</i> , <i>Scaevola basedowii</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Tussock and annual grasses	<i>Triodia desertorum</i>
Herbs	<i>Commersonia melanopetala</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 148

Described Date Type: Quadrat 20 x 20
MGA Zone 50 645163 mE 6746667 mN
Habitat flat plain
Soil orange sand
Rock Type nil
Vegetation Open *Acacia aneura* var. *aneura* and *Acacia aneura* var. *argentea* medium trees over isolated *Eucalyptus concinna* mallee trees over sparse *Acacia ramulosa* var. *ramulosa* tall shrubs over sparse *Bertya dimerostigma* and *Aluta maisonneuvei* subsp. *auriculata* medium shrubs over moderately dense *Eremophila forrestii* subsp. *forrestii* low to very low shrubs over sparse *Eragrostis setifolia* soft grasses over isolated *Triodia basedowii* hummock grasses
Veg Condition Good
Fire moderate
Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees 5-15 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i>
Mallees	<i>Eucalyptus concinna</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>intermedia</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i>
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Bertya dimerostigma</i> , <i>Eremophila decipiens</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i> , <i>Phebalium canaliculatum</i> , <i>Psydrax suaveolens</i>
Shrubs <0.5 metres	<i>Eremophila forrestii</i> subsp. <i>forrestii</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eragrostis setifolia</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 149

Described Date Type: Quadrat 20 x 20
MGA Zone 50 643898 mE 6744178 mN
Habitat low gravelly rise
Soil pale orange to brown sandy clay
Rock Type nil
Vegetation Moderately dense *Acacia sibirica* and *Acacia aneura* var. *argentea* and *aneura* low trees over sparse *Eucalyptus oldfieldii* mallee trees over sparse *Eremophila alternifolia* medium shrubs over sparse *Aluta maisonneuvei* ssp *auriculata* low shrubs over isolated *Triodia basedowii* hummock grasses
Veg Condition Excellent
Fire Nil
Notes Moderate widespread leaf litter with plentiful wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia sibirica</i>
Mallees	<i>Eucalyptus oldfieldii</i>
Shrubs >2 metres	<i>Acacia kempeana</i>
Shrubs 1-2 metres	<i>Eremophila alternifolia</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Phebalium canaliculatum</i>
Shrubs 0.5-1 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eragrostis falcata</i> , <i>Monachather paradoxus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 150

Described CCS Date 6/07/2007 Type: Quadrat 20 x 20
MGA Zone 50 642446 mE 6744328 mN
Habitat Swale
Soil red orange sandy clay
Rock Type nil
Vegetation isolated *Eucalyptus gongylocarpa* medium to low trees over sparse *Eucalyptus concinna* mallee trees over sparse *Grevillea juncifolia* subsp. *temulenta* tall shrubs over open *Acacia heteroneura* var. *jutsonii* medium shrubs over sparse *Bertya dimerostigma* low shrubs over open *Leptosema chambersii* very low shrubs over open *Triodia desertorum* hummock grasses
Veg Condition good
Fire old
Notes Moderate widespread leaf litter with sparse wood litter.

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Mallees	<i>Eucalyptus concinna</i>
Shrubs >2 metres	<i>Callitris preissii</i> , <i>Grevillea juncifolia</i> subsp. <i>temulenta</i>
Shrubs 1-2 metres	<i>Acacia heteroneura</i> var. <i>jutsonii</i> , <i>Acacia ligulata</i> , <i>Cryptandra distigma</i>
Shrubs 0.5-1 metres	<i>Alyxia buxifolia</i> , <i>Anthotroche pannosa</i> , <i>Bertya dimerostigma</i> , <i>Microcorys macredieana</i> , <i>Thryptomene biseriata</i>
Shrubs <0.5 metres	<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Leptosema chambersii</i> , <i>Prostanthera althoferi</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i> , <i>Triodia desertorum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 151

Described Date Type: Quadrat 20 x 20
MGA Zone 50 640394 mE 6744870 mN
Habitat undulating plain to swale
Soil red orange sandy clay
Rock Type nil
Vegetation open *Acacia aneura* var. *aneura* and *argentea* low trees over open *Melaleuca leiocarpa* tall to medium shrubs over open *Eragrostis setifolia* soft grasses over moderately dense *Triodia basedowii* hummock grasses
Veg Condition excellent
Fire moderate
Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i>
Shrubs >2 metres	<i>Melaleuca leiocarpa</i>
Shrubs <0.5 metres	<i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Scaevola parvifolia</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eragrostis setifolia</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 152

Described Date Type: Quadrat 20 x 20
MGA Zone 50 640104 mE 6745880 mN
Habitat ridge top/ dune crest
Soil orange sand
Rock Type nil
Vegetation open *Anthotroche pannosa* low shrubs over isolated *Dampiera eriantha* and *Bertya dimerostigma* very low shrubs over isolated *Aristida holathera* var. *holathera* soft grasses over sparse *Triodia basedowii* hummock grasses
Veg Condition excellent
Fire moderate
Notes Negligible leaf litter and moderate wood litter

Species List:

Shrubs 0.5-1 metres	<i>Acacia heteroneura</i> var. <i>jutsonii</i> , <i>Anthotroche pannosa</i>
Shrubs <0.5 metres	<i>Acacia acanthoclada</i> subsp. <i>acanthoclada</i> , <i>Bertya dimerostigma</i> , <i>Callitris preissii</i> , <i>Chrysocephalum puteale</i> , <i>Dampiera ?eriantha</i> , <i>Daviesia grahamii</i> , <i>Grevillea juncifolia</i> subsp. <i>temulenta</i> , <i>Lomandra leucocephala</i> subsp. <i>robusta</i> , <i>Newcastelia hexarrhena</i> , <i>Scaevola parvibarbata</i> , <i>Stackhousia megaloptera</i> , <i>Thryptomene biseriata</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 153

Described Date Type: Quadrat 20 x 20
MGA Zone 50 639484 mE 6751200 mN
Habitat undulating plain
Soil red orange loamy sand
Rock Type nil
Vegetation isolated *Eucalyptus gongylocarpa* medium trees over open mixed mallee trees including *Eucalyptus concinna*, *Eucalyptus youngiana* and *Eucalyptus effusa* over sparse *Dicrasyllis brunnea* very low shrubs over open *Triodia basedowii* hummock grasses
Veg Condition pristine
Fire moderate
Notes Sparse leaf litter, mainly under mallees and sparse wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Trees <5 metres	<i>Codonocarpus cotinifolius</i>
Mallees	<i>Eucalyptus concinna</i> , <i>Eucalyptus effusa</i> , <i>Eucalyptus youngiana</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs 0.5-1 metres	<i>Duboisia hopwoodii</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i> , <i>Senna pleurocarpa</i>
Shrubs <0.5 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia colletioides</i> , <i>Acacia ligulata</i> , <i>Acacia murrayana</i> , <i>Acacia sibina</i> , <i>Dicrasyllis brunnea</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Eriachne mucronata</i> (arid form) (MET 12 736)
Herbs	<i>Goodenia triodiophila</i> , <i>Goodenia xanthosperma</i> , <i>Ptilotus sessilifolius</i>
Twiners	<i>Rhyncharrhena linearis</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 154

Described CCS Date 9/07/2007 Type: Quadrat 20 x 20
Season E
MGA Zone 50 637801 mE 6750423 mN
Habitat rocky hill crest/ outcrop
Soil pale brown skeletal clay
Rock Type sandstone
Vegetation sparse *Acacia gracillima* and *Acacia aneura* low trees over sparse *Dodonaea rigida* and *Keraudrenia velutina* subsp. *elliptica* low shrubs over sparse *Eriachne mucronata* (arid form) soft grasses
Veg Condition good
Fire nil
Notes Negligible leaf litter and sparse wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia aneura</i> var. <i>intermedia</i> , <i>Acacia gracillima</i>
Shrubs 1-2 metres	<i>Acacia tetragonophylla</i> , <i>Santalum lanceolatum</i>
Shrubs 0.5-1 metres	<i>Abutilon leucopetalum</i> , <i>Dodonaea rigida</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Scaevola spinescens</i>
Shrubs <0.5 metres	<i>Ptilotus obovatus</i> , <i>Senna artemisioides</i> subsp. <i>x artemisioides</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i> , <i>Eriachne mucronata</i> (arid form) (MET 12 736)



Phase 2 Site Descriptions Tropicana Operational Area

Site 155

Described Date Type: Quadrat 20 x 20
MGA Zone 50 637680 mE 6750837 mN
Habitat very broad low hill crest
Soil red orange sandy clay
Rock Type nil
Vegetation open mixed *Acacia aneura* varieties low trees over sparse *Eremophila alternifolia* medium shrubs over sparse *Ptilotus obovatus* very low shrubs over open *Eragrostis setifolia* soft grasses
Veg Condition pristine
Fire nil
Notes Moderate leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. ? <i>microcarpa</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia sibirica</i>
Shrubs 1-2 metres	<i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>Eremophila alternifolia</i>
Shrubs 0.5-1 metres	<i>Sida calyxhymenia</i>
Shrubs <0.5 metres	<i>Abutilon otoparpum</i> , <i>Eremophila serrulata</i> , <i>Ptilotus obovatus</i>
Tussock and annual grasses	<i>Eragrostis setifolia</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 156

Described Date Type: Quadrat 20 x 20
MGA Zone 50 637782 mE 6752329 mN
Habitat mid slope
Soil red orange sand
Rock Type nil
Vegetation isolated *Eucalyptus gongylocarpa* medium trees over sparse *Eucalyptus concinna* and *Eucalyptus youngiana* mallee trees over sparse *Acacia ligulata* tall to medium shrubs over open *Anthotroche pannosa* low shrubs over sparse *Callitris preissii* very low shrubs over moderately dense *Triodia desertorum* hummock grasses
Veg Condition good
Fire very recent
Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Mallees	<i>Eucalyptus concinna</i> , <i>Eucalyptus youngiana</i>
Shrubs 1-2 metres	<i>Acacia ligulata</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>Alyxia buxifolia</i>
Shrubs 0.5-1 metres	<i>Anthotroche pannosa</i> , <i>Thryptomene biseriata</i>
Shrubs <0.5 metres	<i>Acacia helmsiana</i> , <i>Aluta maisonneuvei</i> , <i>Alyogyne pinoniana</i> , <i>Callitris preissii</i> , <i>Chrysocephalum puteale</i> , <i>Commersonia melanopetala</i> , <i>Cryptandra distigma</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Westringia rigida</i>
Tussock and annual grasses	<i>Triodia desertorum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 157

Described Date Type: Quadrat 20 x 20
MGA Zone 50 634656 mE 6751710 mN
Habitat low linear dune slope
Soil yellow sand
Rock Type nil
Vegetation sparse *Eucalyptus gongylocarpa* low trees over sparse *Xanthorrhoea thorntonii* grass trees over open *Allocasuarina acutivalvis* tall shrubs over moderately dense *Acacia* species and *Grevillea acacioides* medium shrubs over open *Cryptandra distigma* very low shrubs over sparse *Lepidobolus deserti* rushes over open *Triodia desertorum* hummock grasses
Veg Condition pristine
Fire old
Notes Moderate leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees <5 metres	<i>Eucalyptus gongylocarpa</i>
Shrubs >2 metres	<i>Allocasuarina acutivalvis</i> , <i>Xanthorrhoea thorntonii</i>
Shrubs 1-2 metres	<i>Acacia heteroneura</i> var. <i>jutsonii</i> , <i>Acacia ligulata</i> , <i>Callitris columellaris</i> , <i>Grevillea acacioides</i>
Shrubs 0.5-1 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>
Shrubs <0.5 metres	<i>Acacia acanthoclada</i> subsp. <i>acanthoclada</i> , <i>Acacia kempeana</i> , <i>Anthotroche pannosa</i> , <i>Cryptandra distigma</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Microcorys macredieana</i>
Herbs	<i>Commersonia melanopetala</i>
Sedges and sedge-like	<i>Lepidobolus deserti</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 158

Described Date Type: Quadrat 20 x 20
MGA Zone 50 634539 mE 6751972 mN
Habitat interdune swale
Soil orange yellow clayey sand
Rock Type nil
Vegetation moderately dense *Acacia aneura* varieties low trees to tall shrubs over sparse *Eucalyptus youngiana* and *Eucalyptus oldfieldii* mallee trees over sparse *Acacia ramulosa* var. *ramulosa* medium shrubs over open *Aluta maisonneuvei* ssp *auriculata* and *Prostanthera sericea* low shrubs over sparse *Triodia basedowii* hummock grasses
Veg Condition pristine
Fire nil
Notes Moderate widespread leaf litter with plentiful wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia aneura</i> var. <i>aneura</i> , <i>Grevillea nematophylla</i> subsp. <i>planicosta</i>
Shrubs >2 metres	<i>Hakea francisiana</i>
Shrubs 1-2 metres	<i>Acacia ramulosa</i> var. <i>ramulosa</i>
Shrubs 0.5-1 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Prostanthera sericea</i> , <i>Psydrax suaveolens</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eriachne</i> sp.



Phase 2 Site Descriptions Tropicana Operational Area

Site 159

Described Date Type: Quadrat 20 x 20
MGA Zone 50 632960 mE 6752063 mN
Habitat flat plain
Soil red orange sandy clay
Rock Type ferrous
Vegetation moderately dense *Acacia aneura* varieties low trees over sparse *Acacia ramulosa* var. *ramulosa* tall shrubs over sparse *Eremophila alternifolia* low to very low shrubs over isolated *Eragrostis setifolia* soft grasses
Veg Condition good
Fire old
Notes Moderate leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>intermedia</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>Psydrax suaveolens</i>
Shrubs 1-2 metres	<i>Acacia kempeana</i>
Shrubs 0.5-1 metres	<i>Eremophila alternifolia</i>
Shrubs <0.5 metres	<i>Dicrastylis georgei</i>
Tussock and annual grasses	<i>Eragrostis setifolia</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 160

Described SH Date 8/07/2007 Type: Quadrat 20 x 20
 Season E
 MGA Zone 50 632270 mE 6752839 mN
 Habitat swale
 Soil orange sandy clay
 Rock Type quartz and granite
 Vegetation sparse *Eucalyptus leptopoda* subsp. *elevata* mallee trees over open *Acacia ramulosa* var. *ramulosa* and *Acacia aneura* var. *argentea* tall to medium shrubs over moderately dense *Aluta maisonneuvei* subsp. *auriculata* and *Acacia sibina* low to very low shrubs over *Baeckea* sp. Gt. Victoria Desert very low shrubs over open *Triodia basedowii* hummock grasses
 Notes Moderate leaf litter, mainly under shrubs and sparse wood litter

Species List:

Mallees	<i>Eucalyptus leptopoda</i> subsp. <i>elevata</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia sibina</i>
Shrubs 1-2 metres	<i>Acacia ramulosa</i> var. <i>ramulosa</i>
Shrubs 0.5-1 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>
Shrubs <0.5 metres	<i>Acacia kempeana</i> , <i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813), <i>Keraudrenia velutina</i> subsp. <i>elliptica</i>
Hummock grasses	<i>Triodia basedowii</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 161

Described SH Date 8/07/2007 Type: Quadrat 20 x 20
 Season E
 MGA Zone 50 632339 mE 6753984 mN
 Habitat swale
 Soil sandy clay
 Rock Type quartz and ferrous
 Vegetation open *Eucalyptus trivalva* and *Eucalyptus concinna* mallee trees over sparse *Dicrasyllis brunnea* and *Acacia* aff. *sorophylla* very low shrubs over isolated *Amphipogon caricinus* var. *caricinus* over open *Triodia desertorum* hummock grasses
 Veg Condition good
 Fire moderate
 Notes Negligible leaf litter and sparse wood litter

Species List:

Mallees	<i>Eucalyptus concinna</i> , <i>Eucalyptus trivalva</i> (do not use)
Shrubs 1-2 metres	<i>Acacia jamesiana</i> , <i>Hakea lorea</i>
Shrubs 0.5-1 metres	<i>Acacia ligulata</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , , <i>Senna pleurocarpa</i>
Shrubs <0.5 metres	<i>Acacia</i> aff. <i>sorophylla</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia colletioides</i> , <i>Acacia prainii</i> , <i>Alyogyne pinoniana</i> , <i>Commersonia melanopetala</i> , <i>Dicrasyllis ?nicholasii</i> , <i>Dicrasyllis brunnea</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Leptosema chambersii</i> , <i>Ptilotus sessilifolius</i>
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Amphipogon caricinus</i> var. <i>caricinus</i> , <i>Aristida contorta</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 162

Described Date Type: Quadrat 20 x 20
MGA Zone 50 630914 mE 6753843 mN
Habitat Dune mid slope facing south
Soil orange sand
Rock Type nil
Vegetation isolated *Eucalyptus gongylocarpa* low trees over sparse *Eucalyptus ewartiana* mallee trees over open *Grevillea stenobotrya* medium shrubs over sparse *Newcastelia hexarrhena* low shrubs over open *Daviesia gracilis* and *Cryptandra distigma* very low shrubs over sparse *Lomandra* sp. indeterminant sedges over sparse *Triodia desertorum* hummock grasses
Veg Condition good
Fire old
Notes sparse widespread leaf litter and negligible wood litter

Species List:

Trees <5 metres	<i>Eucalyptus gongylocarpa</i>
Mallees	<i>Eucalyptus ewartiana</i>
Shrubs 1-2 metres	<i>Acacia heteroneura</i> var. <i>jutsonii</i> , <i>Acacia ligulata</i> , <i>Grevillea stenobotrya</i>
Shrubs 0.5-1 metres	<i>Calothamnus gilesii</i> , <i>Hybanthus floribundus</i> subsp. <i>floribundus</i> , <i>Thryptomene biseriata</i>
Shrubs <0.5 metres	<i>Acacia</i> aff. <i>sorophylla</i> , <i>Alyogyne pinoniana</i> , <i>Chrysocephalum puteale</i> , <i>Commersonia melanopetala</i> , <i>Cryptandra distigma</i> , <i>Dampiera ?eriantha</i> , <i>Daviesia gracilis</i> , <i>Dicrastylis ?sp. Cundeeleensis (D.J. Pearson 101)</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Newcastelia hexarrhena</i> , <i>Pomax</i> sp. desert (A.S. George 11968), <i>Scaevola basedowii</i>
Tussock and annual grasses	<i>Triodia desertorum</i>
Sedges and sedge-like	<i>Lomandra</i> sp. indeterminant



Phase 2 Site Descriptions Tropicana Operational Area

Site 163

Described Date Type: Quadrat 20 x 20
MGA Zone 50 635547 mE 6753627 mN
Habitat south facing linear dune
Soil yellow sand
Rock Type nil
Vegetation isolated *Eucalyptus gongylocarpa* low trees over sparse *Eucalyptus youngiana* mallee trees over sparse *Allocasuarina acutivalvis* tall shrubs over open *Pityrodia loricata* and *Hybanthus floribundus* subsp. *floribundus* low shrubs over sparse *Triodia desertorum* hummock grasses
Veg Condition pristine
Fire moderate
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees <5 metres	<i>Eucalyptus gongylocarpa</i>
Mallees	<i>Eucalyptus youngiana</i>
Shrubs >2 metres	<i>Allocasuarina acutivalvis</i>
Shrubs 1-2 metres	<i>Grevillea didymobotrya</i> subsp. <i>didymobotrya</i> , <i>Hakea francisiana</i>
Shrubs 0.5-1 metres	<i>Acacia heteroneura</i> var. <i>jutsonii</i> , <i>Acacia kempeana</i> , <i>Acacia ligulata</i> , <i>Anthotroche pannosa</i> , <i>Dampiera ?eriantha</i> , <i>Grevillea juncifolia</i> subsp. <i>temulenta</i> , <i>Hybanthus floribundus</i> subsp. <i>floribundus</i> , <i>Jacksonia arida</i>
Shrubs <0.5 metres	<i>Acacia acanthoclada</i> subsp. <i>acanthoclada</i> , <i>Acacia prainii</i> , <i>Bertya dimerostigma</i> , <i>Chrysocephalum puteale</i> , <i>Codonocarpus cotinifolius</i> , <i>Daviesia grahamii</i> , <i>Dicrastylis ?sp. Cundeeleensis (D.J. Pearson 101)</i> , <i>Gompholobium gompholobioides</i> , <i>Lomandra leucocephala</i> subsp. <i>robusta</i> , <i>Microcorys macredieana</i> , <i>Micromyrtus stenocalyx</i> , <i>Pityrodia loricata</i> , <i>Pomax</i> sp. desert (A.S. George 11968), <i>Scaevola spinescens</i> , <i>Thryptomene biseriata</i>
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Aristida contorta</i>
Herbs	<i>Commersonia melanopetala</i>
Sedges and sedge-like	<i>Lepidobolus deserti</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 164

Described Date Type: Quadrat 20 x 20
MGA Zone 50 635426 mE 6754302 mN
Habitat swale
Soil clayey sand
Rock Type pisolitic gravel
Vegetation sparse *Eucalyptus oldfieldii* mallee trees over moderately dense *Acacia aneura* varieties *argentea* and *aneura* tall shrubs over sparse *Aluta maisonneuvei* subsp. *auriculata* and *Eremophila forrestii* low shrubs
Veg Condition pristine
Fire nil
Notes Moderate leaf litter, mainly under shrubs and moderate wood litter

Species List:

Mallees	<i>Eucalyptus oldfieldii</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i>
Shrubs 1-2 metres	<i>Eremophila latrobei</i> subsp. <i>latrobei</i>
Shrubs 0.5-1 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Eremophila forrestii</i> subsp. <i>forrestii</i>
Shrubs <0.5 metres	<i>Alyogyne pinoniana</i> , <i>Bertya dimerostigma</i> , <i>Codonocarpus cotinifolius</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i>
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Eragrostis setifolia</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 165

Described SH Date 9/07/2007 Type: Quadrat 20 x 20
MGA Zone 50 631806 mE 6746937 mN
Habitat flat plain
Soil red orange sandy clay
Rock Type ferrous
Vegetation Isolated *Codonocarpus cotinifolius* low trees over sparse *Eucalyptus concinna* mallee trees over isolated *Westringia cephalantha* and *Acacia heteroneura* low shrubs over isolated *Acacia* aff. *sorophylla* very low shrubs over moderately dense *Triodia basedowii* hummock grasses
Veg Condition Excellent
Fire Moderate
Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Mallees	<i>Eucalyptus concinna</i>
Shrubs 1-2 metres	<i>Acacia heteroneura</i> var. <i>jutsonii</i> , <i>Acacia ligulata</i>
Shrubs 0.5-1 metres	<i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Westringia cephalantha</i>
Shrubs <0.5 metres	<i>Acacia</i> ? <i>heteroneura</i> , <i>Acacia</i> aff. <i>sorophylla</i> , <i>Acacia colletioides</i> , <i>Acacia prainii</i> , <i>Daviesia purpurascens</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Ptilotus sessilifolius</i> , <i>Scaevola parvifolia</i> , <i>Senna pleurocarpa</i>
Tussock and annual grasses	<i>Eragrostis falcata</i> , <i>Triodia basedowii</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 166A

Described SH Date 4/07/2007 Type: Quadrat 20 x 20
 Season E Uniformit Site 166A (SH). Do not mix
 MGA Zone 50 643274 mE 6747061 mN
 Habitat dune crest
 Soil light orange yellow sand
 Rock Type nil
 Vegetation sparse *Acacia kempeana* medium shrubs over sparse *Grevillea acacioides* low to very low shrubs over open *Pityrodia loricata* and *Anthotroche pannosa* very low shrubs over isolated *Stylidium limbatum* herbs over sparse *Triodia desertorum* hummock grasses
 Veg Condition good
 Fire moderate
 Notes Sparse leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Mallees	<i>Eucalyptus youngiana</i>
Shrubs 1-2 metres	<i>Duboisia hopwoodii</i>
Shrubs 0.5-1 metres	<i>Acacia jamesiana</i> , <i>Grevillea acacioides</i>
Shrubs <0.5 metres	<i>Acacia camptoclada</i> , <i>Anthotroche pannosa</i> , <i>Chrysocephalum puteale</i> , <i>Dampiera eriantha</i> , <i>Daviesia grahamii</i> , <i>Dicrastylis ?nicholasii</i> , <i>Newcastelia hexarrhena</i> , <i>Pityrodia loricata</i> , <i>Pomax</i> sp. desert (A.S. George 11968), <i>Thryptomene biseriata</i>
Tussock and annual grasses	<i>Triodia desertorum</i>
Herbs	<i>Stylidium limbatum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 167A

Described Date Type: Quadrat 20 x 20
 Uniformity Refers only to Site 167A(CS)
 MGA Zone 50 643314 mE 6746486 mN
 Habitat interdune swale
 Soil red orange loamy sand
 Rock Type nil
 Vegetation open *Acacia aneura* var. *aneura* low trees over sparse *Eucalyptus lepidopoda* ssp *elevata* mallee trees over open *Eucalyptus gongylocarpa* very low shrubs over open mixed soft grasses and sparse *Triodia desertorum* hummock grasses
 Veg Condition pristine
 Fire very recent
 Notes Moderate leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Codonocarpus cotinifolius</i>
Mallees	<i>Eucalyptus leptopoda</i> subsp. <i>elevata</i>
Shrubs 0.5-1 metres	<i>Eucalyptus gongylocarpa</i>
Shrubs <0.5 metres	<i>Acacia</i> aff. <i>sorophylla</i> , <i>Bertya dimerostigma</i> , <i>Dicrasyllis nicholasii</i> , <i>Prostanthera althoferi</i> , <i>Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Amphipogon carcinus</i> var. <i>carcinus</i> , <i>Aristida contorta</i> , <i>Eragrostis setifolia</i> , <i>Eriachne mucronata</i> (arid form) (MET 12 736), <i>Monachather paradoxus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 168

Described Date Type: Quadrat 20 x 20
MGA Zone 50 630292 mE 6745469 mN
Habitat flat plain
Soil red orange sand to sandy clay
Rock Type nil
Vegetation Sparse *Codonocarpus cotinifolius* low trees over sparse *Eucalyptus gracilis* and *Eucalyptus youngiana* mallee trees over open *Keraudrenia velutina* subsp. *elliptica* and *Leptosema chambersii* very low shrubs over sparse *Eragrostis setifolia* soft grasses over moderately dense *Triodia basedowii* hummock grasses
Veg Condition good
Fire moderate
Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees <5 metres	<i>Codonocarpus cotinifolius</i>
Mallees	<i>Eucalyptus gracilis</i> , <i>Eucalyptus youngiana</i>
Shrubs 0.5-1 metres	<i>Duboisia hopwoodii</i> , <i>Melaleuca</i> aff. <i>leiocarpa</i> , <i>Melaleuca zeteticorum</i> , <i>Westringia cephalantha</i>
Shrubs <0.5 metres	<i>Acacia colletioides</i> , <i>Acacia rigens</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Callitris preissii</i> , <i>Dampiera roycei</i> , <i>Dicrastylis</i> ?sp. <i>Cundeeleensis</i> (D.J. Pearson 101), <i>Dicrastylis brunnea</i> , <i>Enekbatus eremaeus</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Eucalyptus horistes</i> , <i>Grevillea juncifolia</i> subsp. <i>temulenta</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Leptosema chambersii</i> , <i>Senna pleurocarpa</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eragrostis setifolia</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 169

Described Date Type: Quadrat 20 x 20
Uniformity Previously referred to
MGA Zone 50 630621 mE 6747064 mN
Habitat north facing dune slope
Soil orange sand
Rock Type nil
Vegetation sparse *Eucalyptus youngiana* mallee trees over isolated *Olearia subspicata* low to very low shrubs over open *Dicrastylis cundeeleensis* and *Solanum plicatile* very low shrubs over isolated *Aristida holathera* var. *holathera* soft grasses over open *Triodia basedowii* hummock grasses
Veg Condition excellent
Fire moderate
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Mallees	<i>Eucalyptus ?oleosa</i> subsp. <i>oleosa</i> , <i>Eucalyptus concinna</i> , <i>Eucalyptus youngiana</i>
Shrubs >2 metres	<i>Codonocarpus</i> sp., <i>Grevillea juncifolia</i> subsp. <i>temulenta</i>
Shrubs 0.5-1 metres	<i>Acacia prainii</i> , <i>Duboisia hopwoodii</i>
Shrubs <0.5 metres	<i>Callitris preissii</i> , <i>Dicrastylis ?sp. Cundeeleensis</i> (D.J. Pearson 101), <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Olearia subspicata</i> , <i>Scaevola parvifolia</i> , <i>Solanum nummularium</i> , <i>Solanum plicatile</i> , <i>Thryptomene biseriata</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i> , <i>Triodia basedowii</i>
Herbs	<i>Vittadinia</i> sp.
Twiners	<i>Marsdenia australis</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 170

Described Date Type: Quadrat 20 x 20
MGA Zone 50 650503 mE 6750731 mN
Habitat flat plain
Soil red orange sandy clay
Rock Type nil
Vegetation open *Acacia aneura* var. *aneura* low trees over open *Eucalyptus trivalva* mallee trees over sparse *Acacia aneura* varieties *aneura* and *intermedia* tall shrubs over sparse *Eremophila alternifolia* medium shrubs over sparse *Senna artemisioides* subsp. *x artemisioides* low shrubs over isolated *Ptilotus obovatus* very low shrubs over open *Triodia desertorum* and *Triodia basedowii* hummock grasses
Veg Condition good
Fire old
Notes Moderate widespread leaf litter with moderate wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i>
Mallees	<i>Eucalyptus</i> sp., <i>Eucalyptus trivalva</i> (do not use)
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Acacia kempeana</i> , <i>Eremophila alternifolia</i>
Shrubs 0.5-1 metres	<i>Acacia colletioides</i> , <i>Eremophila forrestii</i> subsp. <i>forrestii</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i> , <i>Senna artemisioides</i> subsp. <i>x artemisioides</i>
Shrubs <0.5 metres	<i>Acacia aneura</i> var. <i>intermedia</i> , <i>Ptilotus obovatus</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Hummock grasses	<i>Triodia basedowii</i> , <i>Triodia desertorum</i>
Tussock and annual grasses	<i>Eragrostis falcata</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 171

Described Date Type: Quadrat 20 x 20
MGA Zone 50 650476 mE 6749639 mN
Habitat undulating plain
Soil red orange loamy sand
Rock Type nil
Vegetation open *Callitris columellaris* low trees over open *Eucalyptus concinna* and *Eucalyptus trivalva*
mallee trees over open *Triodia scariosa* hummock grasses
Veg Condition pristine
Fire nil
Notes Moderate leaf litter, mainly under mallees and moderate wood litter.

Species List:

Trees <5 metres	<i>Callitris columellaris</i> , <i>Grevillea nematophylla</i> subsp. <i>planicosta</i>
Mallees	<i>Eucalyptus concinna</i> , <i>Eucalyptus sp.</i> , <i>Eucalyptus trivalva</i> (do not use)
Shrubs <0.5 metres	<i>Acacia prainii</i> , <i>Westringia rigida</i>
Hummock grasses	<i>Triodia scariosa</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 172

Described Date Type: Quadrat 20 x 20
MGA Zone 50 649472 mE 6747900 mN
Habitat flat plain adjacent a salt lake
Soil red orange sandy clay
Rock Type nil
Vegetation sparse *Eucalyptus eremicola* subsp. *eremicola* mallee trees over sparse *Senna artemisioides* ssp *petiolaris* medium to low shrubs over isolated *Enneapogon caeruleus* var. *caeruleus* soft grasses over sparse *Triodia scariosa* hummock grasses
Veg Condition good
Fire nil
Notes Moderate leaf litter mainly under Eucalypts, sparse wood litter

Species List:

Mallees	<i>Eucalyptus eremicola</i> subsp. <i>eremicola</i>
Shrubs 1-2 metres	<i>Acacia nyssophylla</i> , <i>Eremophila scoparia</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Hummock grasses	<i>Triodia ?scariosa</i>
Tussock and annual grasses	<i>Enneapogon caeruleus</i> var. <i>caeruleus</i>
Herbs	<i>Euphorbia drummondii</i> , <i>Maireana</i> sp., <i>Sida spodochroma</i> , <i>Zygophyllum</i> sp.



Phase 2 Site Descriptions Tropicana Operational Area

Site 173

Described Date Type: Quadrat 20 x 20
MGA Zone 50 649300 mE 6748457 mN
Habitat undulating plain to very broad dune crest
Soil red orange loamy sand
Rock Type nil
Vegetation sparse *Callitris columellaris* low trees over open *Eucalyptus horistes* mallee trees over open *Daviesia ?purpurascens* low shrubs over open *Triodia desertorum* hummock grasses
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under mallees and moderate wood litter.

Species List:

Trees <5 metres	<i>Callitris columellaris</i>
Mallees	<i>Eucalyptus concinna</i>
Shrubs 0.5-1 metres	<i>Daviesia ?purpurascens</i>
Shrubs <0.5 metres	<i>Acacia</i> aff. <i>sorophylla</i> , <i>Grevillea stenobotrya</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn</i> (B.W. Strong 676), <i>Solanum plicatile</i> , <i>Westringia rigida</i>
Hummock grasses	<i>Triodia scariosa</i>



Phase 2 Site Descriptions Tropicana Operational Area Site 174

Described SH Date Type: Quadrat 20 x 20
MGA Zone 50 630465 mE 6746488 mN
Habitat flat plain
Soil red orange sand
Rock Type ferrous
Vegetation sparse *Acacia murrayana* tall to low shrubs over open *Dicrastylis nicholasii*, *Leptosema chambersii* and *Dicrastylis georgei* very low shrubs over isolated *Amphipogon caricinus* var. *caricinus* soft grasses over moderately dense *Triodia desertorum* hummock grasses
Veg Condition excellent
Fire moderate
Notes Moderate leaf litter, mainly under shrubs and negligible wood litter.

Species List:

Shrubs 1-2 metres	<i>Acacia murrayana</i> , <i>Melaleuca zeteticorum</i>
Shrubs <0.5 metres	<i>Dicrastylis ?nicholasii</i> , <i>Dicrastylis brunnea</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Leptosema chambersii</i> , <i>Petalostylis cassioides</i> , <i>Scaevola parvifolia</i>
Hummock grasses	<i>Triodia ? desertorum</i>
Tussock and annual grasses	<i>Amphipogon caricinus</i> var. <i>caricinus</i>
Herbs	<i>Dampiera dentata</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 175

Described Date Type: Quadrat 20 x 20
MGA Zone 50 641581 mE 6743757 mN
Habitat dune crest
Soil orange sand
Rock Type nil
Vegetation isolated *Grevillea didymobotrya* subsp. *didymobotrya* tall shrubs over open *Daviesia grahamii* medium shrubs over sparse *Eremophila forrestii* and *Pityrodia loricata* low shrubs over sparse *Chrysocephalum puteale* very low shrubs over sparse *Caesia* sp. *talingka* ms (C. Tauss) and *Lomandra leucocephala* subsp. *robusta* sedges over open *Triodia desertorum* hummock grasses
Veg Condition good
Fire moderate
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Shrubs >2 metres	<i>Grevillea didymobotrya</i> subsp. <i>didymobotrya</i>
Shrubs 1-2 metres	<i>Daviesia grahamii</i> , <i>Xanthorrhoea thorntonii</i>
Shrubs 0.5-1 metres	<i>Acacia</i> aff. <i>sorophylla</i> , <i>Eremophila forrestii</i> , <i>Pityrodia loricata</i> , <i>Thryptomene biseriata</i>
Shrubs <0.5 metres	<i>Acacia acanthoclada</i> subsp. <i>acanthoclada</i> , <i>Calytrix</i> sp., <i>Chrysocephalum puteale</i> , <i>Cryptandra distigma</i> , <i>Hybanthus floribundus</i> subsp. <i>floribundus</i> , <i>Pomax</i> sp. desert (A.S. George 11968)
Hummock grasses	<i>Triodia desertorum</i>
Tussock and annual grasses	<i>Monachather paradoxus</i> , <i>POACEAE</i> sp.
Sedges and sedge-like	<i>Caesia</i> sp. <i>talingka</i> ms (C. Tauss), <i>Lepidobolus deserti</i> , <i>Lomandra leucocephala</i> subsp. <i>robusta</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 176

Described CCS Date 6/07/2007 Type: Quadrat 20 x 20
 MGA Zone 50 642780 mE 6744641 mN
 Habitat linear broad dune crest
 Soil red orange sand
 Rock Type nil
 Vegetation Open *Anthotroche pannosa* and *Daviesia grahamii* low shrubs over sparse *Pityrodia loricata*, *Dicrastylis nicholasii* and *Microcorys macredieana* very low shrubs over sparse *Lomandra leucocephala* ssp *robusta* mat rushes over sparse *Triodia desertorum* hummock grasses
 Veg Condition pristine
 Fire moderate
 Notes Sparse leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Shrubs 1-2 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Grevillea juncifolia</i> subsp. <i>temulenta</i>
Shrubs 0.5-1 metres	<i>Anthotroche pannosa</i> , <i>Daviesia grahamii</i> , <i>Duboisia hopwoodii</i> , <i>Grevillea didymobotrya</i> subsp. <i>didymobotrya</i>
Shrubs <0.5 metres	<i>Chrysocephalum puteale</i> , <i>Dicrastylis ?nicholasii</i> , <i>Leptosema chambersii</i> , <i>Microcorys macredieana</i> , <i>Pityrodia loricata</i> , <i>Thryptomene biseriata</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i>
Herbs	<i>Goodenia glandulosa</i> , <i>Lechenaultia striata</i>
Sedges and sedge-like	<i>Lepidobolus deserti</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 177

Described Date Type: Quadrat 20 x 20
MGA Zone 50 640460 mE 6744188 mN
Habitat flat plain
Soil red orange sand to sandy clay
Rock Type nil
Vegetation sparse *Eucalyptus gongylocarpa* medium to low trees over sparse *Eucalyptus trivalva* mallee trees over open *Eremophila platythamnos* subsp. *platythamnos* and *Microcorys macredieana* low shrubs over *Keraudrenia velutina* subsp. *elliptica* very low shrubs over sparse *Commersonia melanopetala* over open *Aristida holathera* over open *Triodia basedowii* hummock grasses
Veg Condition good
Fire moderate
Notes Moderate leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Mallees	<i>Eucalyptus trivalva</i> (do not use)
Shrubs >2 metres	<i>Grevillea juncifolia</i> subsp. <i>temulenta</i>
Shrubs 0.5-1 metres	<i>Eremophila forrestii</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Microcorys macredieana</i> , <i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>
Shrubs <0.5 metres	<i>Alyogyne pinoniana</i> , <i>Commersonia melanopetala</i> , <i>Dicrastylis</i> sp. <i>Cundeeleensis</i> (D.J. Pearson 101), <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Micromyrtus obovata</i> , <i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Amphipogon caricinus</i> var. <i>caricinus</i> , <i>Aristida</i> sp., <i>Eragrostis setifolia</i>
Herbs	<i>Goodenia xanthosperma</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 178

Described Date Type: Quadrat 20 x 20
MGA Zone 50 640802 mE 6744671 mN
Habitat broad crest of wide dune
Soil orange sand
Rock Type nil
Vegetation open *Eucalyptus gongylocarpa* medium trees over sparse *Eucalyptus trivalva* mallee trees over open *Leptosema chambersii*, *Eremophila platythamnos* subsp. *platythamnos* and *Bertya dimerostigma* very low shrubs over sparse *Aristida holathera* soft grasses over open *Triodia basedowii* hummock grasses
Veg Condition pristine
Fire moderate
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Trees 5-15 metres	<i>Eucalyptus gongylocarpa</i>
Mallees	<i>Eucalyptus trivalva</i> (do not use)
Shrubs 0.5-1 metres	<i>Eremophila glabra</i> subsp. <i>glabra</i>
Shrubs <0.5 metres	<i>Alyogyne pinoniana</i> , <i>Bertya dimerostigma</i> , <i>Dianella revoluta</i> var. <i>divaricata</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Leptosema chambersii</i> , <i>Microcorys macredieana</i> , <i>Olearia exiguifolia</i> , <i>Scaevola basedowii</i>
Hummock grasses	<i>Triodia basedowii</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 179A

Described SH Date Type: Quadrat 20 x 20
MGA Zone 50 632092 mE 6749358 mN
Habitat flat plain
Soil red orange sandy clay
Rock Type ferrous
Vegetation open *Acacia aneura* varieties *aneura*, *intermedia* and *argentea* low trees over isolated *Acacia ramulosa* var. *ramulosa* tall shrubs over open *Eremophila forrestii* and *Aluta maisonneuvei* low to very low shrubs over isolated *Eragrostis falcata* soft grasses
Veg Condition good
Fire old
Notes Moderate leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>?aneura</i> , <i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>intermedia</i> , <i>Santalum spicatum</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i>
Shrubs 0.5-1 metres	<i>Eremophila forrestii</i> subsp. <i>forrestii</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i> , <i>Maireana pyramidata</i> , <i>Prostanthera sericea</i>
Tussock and annual grasses	<i>Eragrostis falcata</i> , <i>Monachather paradoxus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 180A

Described CCS Date 11/07/200 Type: Quadrat 20 x 20
MGA Zone 50 657201 mE 6775408 mN
Habitat flat plain
Soil red brown sandy clay
Rock Type nil
Vegetation isolated *Acacia aneura* var. *intermedia* low trees over open *Maireana sedifolia* low shrubs over sparse *Ptilotus obovatus* very low shrubs over moderately dense *Enneapogon polyphyllus* soft grasses
Veg Condition pristine
Fire nil
Notes Moderate leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs 0.5-1 metres	<i>Acacia tetragonophylla</i> , <i>Maireana pyramidata</i> , <i>Maireana sedifolia</i> , <i>Maireana turbinata</i> , <i>Ptilotus obovatus</i>
Shrubs <0.5 metres	<i>Sida fibulifera</i> , <i>Solanum ellipticum</i>
Tussock and annual grasses	<i>Enneapogon polyphyllus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 181

Described Date Type: Quadrat 20 x 20
MGA Zone 50 656901 mE 6774145 mN
Habitat flat plain
Soil sandy clay
Rock Type ferrous and quartz
Vegetation sparse *Hakea lorea* subsp. *lorea* low trees over sparse *Acacia sibirica* low trees to tall shrubs over isolated *Acacia tetragonophylla* low shrubs over sparse, *Ptilotus obovatus* var. *obovatus* and *Maireana* species very low shrubs over moderately dense *Aristida contorta* and *Enneapogon polyphyllus* soft grasses
Notes negligible leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Trees <5 metres	<i>Acacia sibirica</i> , <i>Hakea lorea</i> subsp. <i>lorea</i>
Shrubs >2 metres	<i>Acacia sibirica</i>
Shrubs 1-2 metres	<i>Eremophila longifolia</i> , <i>Rhagodia eremaea</i>
Shrubs 0.5-1 metres	<i>Acacia tetragonophylla</i>
Shrubs <0.5 metres	<i>Maireana</i> sp.1, <i>Maireana</i> sp.2, <i>Ptilotus obovatus</i> var. <i>obovatus</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 182

Described Date Type: Quadrat 20 x 20
MGA Zone 50 660501 mE 6773372 mN
Habitat flat plain
Soil red orange sandy clay
Rock Type quartz
Vegetation open *Casuarina pauper* medium trees over isolated *Acacia aneura* var. *intermedia* low trees over sparse *Acacia kempeana* tall shrubs over sparse *Eremophila latrobei* subsp. *latrobei* medium shrubs over sparse *Senna artemisioides petiolaris* and *Dodonaea lobulata* low shrubs over *Maireana sedifolia*, *Olearia muelleri* and *Ptilotus obovatus* ver. *obovatus* very low shrubs over sparse *Enneapogon polyphyllus* soft grasses
Veg Condition excellent
Fire nil
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia burkittii</i> , <i>Acacia kempeana</i>
Shrubs 1-2 metres	<i>Chenopodium desertorum</i> subsp. <i>rectum</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i>
Shrubs 0.5-1 metres	<i>Dodonaea lobulata</i> , <i>Maireana sedifolia</i> , <i>Ptilotus obovatus</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Sida atrovirens</i>
Shrubs <0.5 metres	<i>Maireana triptera</i> , <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> , <i>Scaevola spinescens</i>
Tussock and annual grasses	<i>Enneapogon polyphyllus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 183

Described Date Type: Quadrat 20 x 20
MGA Zone 50 657374 mE 6772848 mN
Habitat flat plain
Soil red orange sandy clay
Rock Type ferrous and quartz
Vegetation sparse *Acacia sibirica* low trees over sparse *Acacia burkittii* medium shrubs over open *Maireana sedifolia* low shrubs over sparse *Maireana* sp. and *Ptilotus obovatus* ver. *obovatus* very low shrubs over sparse low *Sida fibulifera* herbs over moderately dense *Enneapogon polyphyllus* and *Aristida contorta* soft grasses
Veg Condition good
Fire nil
Notes sparse widespread leaf litter and sparse wood litter

Species List:

Trees <5 metres	<i>Acacia sibirica</i>
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i>
Shrubs 0.5-1 metres	<i>Maireana sedifolia</i>
Shrubs <0.5 metres	<i>Chenopodium nitrariaceum</i> , <i>Maireana</i> sp.2, <i>Maireana tomentosa</i> subsp. <i>tomentosa</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i>
Herbs	<i>Sida fibulifera</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 184

Described Date Type: Quadrat 20 x 20
MGA Zone 50 656378 mE 6772071 mN
Habitat saline pan
Soil red orange, pale grey and brown loamy clay
Rock Type nil
Vegetation open *Tecticornia halocnemoides* very low shrubs over sparse soft grasses
Veg Condition pristine
Fire nil

Species List:

Shrubs <0.5 metres	<i>Tecticornia halocnemoides</i>
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Phase 2 Site Descriptions Tropicana Operational Area

Site 185

Described Date Type: Quadrat 20 x 20
MGA Zone 50 655865 mE 6772061 mN
Habitat broad clay mound
Soil white clay
Rock Type nil
Vegetation open *Eucalyptus horistes* mallee trees over sparse *Callitris columellaris* tall shrubs over sparse *Zygophyllum eremaeum* very low shrubs
Veg Condition excellent
Fire nil
Notes Sparse leaf litter, mainly under mallees and sparse wood litter.

Species List:

Trees 5-15 metres	<i>Eucalyptus horistes</i>
Shrubs >2 metres	<i>Callitris preissii</i>
Shrubs 1-2 metres	<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i>
Shrubs <0.5 metres	<i>Atriplex nummularia</i> , <i>Maireana pentatropis</i> , <i>Zygophyllum eremaeum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 186

Described Date Type: Quadrat 20 x 20
MGA Zone 50 655627 mE 6772691 mN
Habitat undulating plain
Soil pale brown orange sandy loam
Rock Type nil
Vegetation isolated *Myoporum platycarpum* low trees over *Acacia aneura* var. *intermedia* tall shrubs over sparse Chenopod very low shrubs over open mixed soft grasses
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under trees and sparse wood litter.

Species List:

Trees <5 metres	<i>Myoporum platycarpum</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs 0.5-1 metres	<i>Maireana sedifolia</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Chenopodium desertorum</i> subsp. <i>rectum</i> , <i>Maireana</i> sp.1, <i>Ptilotus obovatus</i> , <i>Sclerolaena patenticuspis</i> , <i>Sida fibulifera</i> , <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Enneapogon caerulescens</i> var. <i>caerulescens</i> , <i>Enneapogon polyphyllus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 187

Described CCS Date 11/07/200 Type: Quadrat 20 x 20
MGA Zone 50 655833 mE 6772447 mN
Habitat gentle mid slope of rise
Soil red orange clayey sand
Rock Type nil
Vegetation open *Casuarina pauper*, *Myoporum platycarpum* and *Alectryon oleifolius* subsp. *canescens* over sparse *Dodonaea viscosa* subsp. *angustissima* medium shrubs over open *Maireana sedifolia*, *Senna artemisioides* ssp *petiolaris* over open mixed soft grasses
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under trees and sparse wood litter

Species List:

Trees <5 metres	<i>Alectryon oleifolius</i> subsp. <i>canescens</i> , <i>Casuarina pauper</i> , <i>Myoporum platycarpum</i>
Shrubs >2 metres	<i>Hakea rhombales</i>
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i>
Shrubs 0.5-1 metres	<i>Maireana sedifolia</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Atriplex vesicaria</i> , <i>Chenopodium desertorum</i> subsp. <i>rectum</i> , <i>Maireana turbinata</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Enneapogon caerulescens</i> var. <i>caerulescens</i> , <i>Enneapogon polyphyllus</i> , <i>Enteropogon ramosus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 188

Described Date Type: Quadrat 20 x 20
MGA Zone 50 658008 mE 6771174 mN
Habitat flat plain clay pan
Soil white clay
Rock Type nil
Vegetation open *Tecticornia halocnemoides*, *Maireana glomerifolia* and sparse *Atriplex vesicaria* and *Frankenia cinerea* very low shrubs over isolated *Wilsonia* sp. and *Goodenia* sp. herbs over isolated *Eragrostis pergracilis* soft grasses
Veg Condition good
Fire nil
Notes negligible leaf litter and sparse wood litter

Species List:

Trees <5 metres	<i>Callitris preissii</i>
Shrubs <0.5 metres	<i>Atriplex vesicaria</i> , <i>Frankenia cinerea</i> , <i>Tecticornia halocnemoides</i> , <i>Maireana glomerifolia</i> , <i>Wilsonia</i> sp.
Tussock and annual grasses	<i>Eragrostis pergracilis</i>
Herbs	<i>Asteridea chaetopoda</i> , <i>Goodenia</i> sp., <i>Wilsonia</i> sp.



Phase 2 Site Descriptions Tropicana Operational Area

Site 189

Described SH Date 10/07/200 Type: Quadrat 20 x 20
MGA Zone 50 657964 mE 6770839 mN
Habitat flat plain
Soil red orange sand
Rock Type nil
Vegetation open Eucalyptus effusa mallee trees over sparse *Eremophila glabra* subsp. *glabra* tall to medium shrubs over sparse *Dodonaea viscosa* subsp. *angustissima* over sparse *Senna artemisioides* ssp *petiolaris* low shrubs over isolated *Ptilotus obovatus* ver. *obovatus* very low shrubs over sparse *Eriachne helmsii* and *Aristida holathera* var. *holathera* soft grasses over open *Triodia basedowii* hummock grasses
Veg Condition good
Fire old
Notes Moderate leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Trees 5-15 metres	<i>Casuarina pauper</i>
Trees <5 metres	<i>Myoporum platycarpum</i>
Mallees	<i>Eucalyptus effusa</i>
Shrubs 1-2 metres	<i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i>
Shrubs 0.5-1 metres	<i>Rhagodia eremaea</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Atriplex vesicaria</i> , <i>Maireana tomentosa</i> subsp. <i>tomentosa</i> , <i>Ptilotus obovatus</i> , <i>Solanum orbiculatum</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i> , <i>Eriachne helmsii</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 190

Described CCS Date 13/07/200 Type: Quadrat 20 x 20 20m x 20m
 MGA Zone 50 666456 mE 6772412 mN
 Habitat flat plain
 Soil red orange sandy clay
 Rock Type nil
 Vegetation open *Acacia aneura* varieties *aneura* and *intermedia* low trees over sparse *Eucalyptus trivalva* mallee trees over sparse *Acacia ramulosa* var. *ramulosa* tall shrubs over sparse *Aluta maisonneuvei* subsp. *auriculata* low to very low shrubs over isolated *Goodenia* sp. herbs over moderately dense *Triodia basedowii* hummock grasses
 Veg Condition good
 Fire old
 Notes Moderate leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>intermedia</i>
Mallees	<i>Eucalyptus trivalva</i> (do not use)
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>intermedia</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i>
Shrubs 0.5-1 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>
Shrubs <0.5 metres	<i>Ptilotus obovatus</i> , <i>Solanum lasiophyllum</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Enteropogon ramosus</i>
Herbs	<i>Goodenia</i> sp.



Phase 2 Site Descriptions Tropicana Operational Area

Site 191

Described SH Date 13/07/200 Type: Quadrat 20 x 20
MGA Zone 50 667574 mE 6772594 mN
Habitat flat plain
Soil red orange sandy clay
Rock Type ferrous and quartz
Vegetation isolated *Acacia sibirica* low trees to tall shrubs over sparse *Abutilon otocarpum* and *Sclerolaena convexula* very low shrubs over sparse herbs over moderately dense *Aristida holathera* var. *holathera*, *Monachather paradoxus* and *Eragrostis laniflora* and *Aristida contorta* soft grasses
Veg Condition good
Fire moderate
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Trees <5 metres	<i>Acacia sibirica</i>
Shrubs <0.5 metres	<i>Abutilon otocarpum</i> , <i>Sclerolaena convexula</i> , <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Aristida holathera</i> var. <i>holathera</i> , <i>Enneapogon polyphyllus</i> , <i>Eragrostis laniflora</i> , <i>Monachather paradoxus</i> , <i>Paspalidium basicladum</i>
Herbs	<i>Calandrinia</i> sp., <i>Euphorbia drummondii</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 192

Described CCS Date 13/07/200 Type: Quadrat 20 x 20
MGA Zone 50 668213 mE 6776095 mN
Habitat undulating plain
Soil red orange clayey sand
Rock Type calcrete
Vegetation open *Eucalyptus trivalva* mallee trees over sparse *Acacia aneura* var. *aneura* over open *Triodia basedowii* hummock grasses
Veg Condition pristine
Fire moderate
Notes Sparse leaf litter, mainly under mallees and sparse wood litter.

Species List:

Trees 5-15 metres	<i>Eucalyptus trivalva</i> (do not use)
Trees <5 metres	<i>Codonocarpus cotinifolius</i>
Mallees	<i>Eucalyptus youngiana</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia burkittii</i> , <i>Acacia sibirica</i>
Shrubs 1-2 metres	<i>Eremophila alternifolia</i>
Shrubs 0.5-1 metres	<i>Acacia tetragonophylla</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>
Shrubs <0.5 metres	<i>Dicrastylis brunnea</i> , <i>Ptilotus obovatus</i> , <i>Scaevola spinescens</i> , <i>Sida chrysocalyx</i> , <i>Solanum lasiophyllum</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon caerulescens</i> var. <i>caerulescens</i> , <i>Enneapogon polyphyllus</i> , <i>Eragrostis falcata</i> , <i>Paspalidium basicladum</i>
Herbs	<i>Ptilotus polystachyus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 193

Described Date Type: Quadrat 20 x 20
MGA Zone 50 667335 mE 6776010 mN
Habitat low gravelly rise/ hill crest
Soil pale brown yellow sandy clay
Rock Type pisolitis gravel
Vegetation moderately dense *Acacia aneura* varieties *aneura*, *argentea* and *intermedia* tall shrubs over open *Halgania cyanea* var. *Allambi Stn*, *Eremophila latrobei* subsp. *latrobei*, *Acacia ramulosa* var. *ramulosa* and *Aluta maisonneuvei* subsp. *auriculata* medium shrubs over isolated *Rhyncharrhena linearis* climbers over sparse mixed shrubs over isolated *Triodia basedowii* hummock grasses
Veg Condition excellent
Fire nil
Notes Moderate leaf litter, mainly under shrubs and plentiful wood litter.

Species List:

Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia aneura</i> var. <i>intermedia</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i>
Shrubs 1-2 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn</i> (B.W. Strong 676)
Shrubs <0.5 metres	<i>Sida calyxhymenia</i> , <i>Solanum lasiophyllum</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eragrostis setifolia</i> , <i>Eriachne mucronata</i> (arid form) (MET 12 736), <i>Eriachne mucronata</i> (desert form), <i>Monachather paradoxus</i>
Twiners	<i>Rhyncharrhena linearis</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 194

Described Date Type: Quadrat 20 x 20
MGA Zone 50 664990 mE 6771818 mN
Habitat flat plain
Soil red orange sandy clay
Rock Type nil
Vegetation open *Eucalyptus trivalva* and *Eucalyptus concinna* mallee trees over isolated *Acacia nyssophylla* tall shrubs with regrowth as low shrubs over sparse *Acacia prainii* and *Eremophila paisleyi* subsp. *paisleyi* medium shrubs over isolated *Dicrastylis brunnea* and *Solanum plicatile* very low shrubs over isolated *Eriachne helmsii* over open *Triodia basedowii* hummock grasses
Fire very recent
Notes Sparse leaf litter, mainly under shrubs and moderate wood litter.

Species List:

Mallees	<i>Eucalyptus concinna</i> , <i>Eucalyptus trivalva</i> (do not use)
Shrubs 1-2 metres	<i>Acacia nyssophylla</i> , <i>Acacia prainii</i>
Shrubs 0.5-1 metres	<i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>
Shrubs <0.5 metres	<i>Dicrastylis brunnea</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Grevillea nematophylla</i> subsp. <i>planicosta</i> , <i>Ptilotus obovatus</i> , <i>Scaevola parvifolia</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i> , <i>Solanum plicatile</i>
Tussock and annual grasses	<i>Enneapogon polyphyllus</i> , <i>Eriachne helmsii</i> , <i>Triodia basedowii</i>
Herbs	<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 195

Described Date Type: Quadrat 20 x 20
MGA Zone 50 662666 mE 6772256 mN
Habitat flat plain
Soil red orange sandy clay
Rock Type nil
Vegetation Sparse *Acacia aneura* var. *intermedia* low trees over open *Eucalyptus effusa* mallee trees over sparse *Senna artemisioides* subsp. *petiolaris* tall to medium shrubs, over scattered *Eremophila alternifolia* medium shrubs, over sparse *Ptilotus obovatus* var. *obovatus*, over open *Eragrostis eriopoda* and *Aristida contorta* soft grasses over sparse *Triodia basedowii* low hummock grasses
Veg Condition good
Fire nil
Notes Moderate leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>intermedia</i> , <i>Myoporum platycarpum</i>
Mallees	<i>Eucalyptus effusa</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i>
Shrubs 1-2 metres	<i>Acacia nyssophylla</i> , <i>Acacia tetragonophylla</i> , <i>Rhagodia eremaea</i>
Shrubs 0.5-1 metres	<i>Eremophila alternifolia</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Spartothamnella teucriflora</i>
Shrubs <0.5 metres	<i>Maireana tomentosa</i> , <i>Ptilotus obovatus</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i> , <i>Zygophyllum eremaeum</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Eragrostis eriopoda</i> , <i>Paspalidium basicladum</i>
Herbs	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 196

Described Date Type: Quadrat 20 x 20
MGA Zone 50 662650 mE 6755387 mN
Habitat undulating plain with gentle slope
Soil pale brown orange sandy clay
Rock Type nil
Vegetation Isolated *Acacia sibilans* low trees over sparse *Maireana sedifolia* and *Ptilotus obovatus* low shrubs over open mixed herbs
Veg Condition good
Fire nil
Notes negligible leaf litter and wood litter.

Species List:

Trees <5 metres	<i>Acacia sibilans</i>
Shrubs 0.5-1 metres	<i>Acacia burkittii</i>
Shrubs <0.5 metres	<i>Chrysocephalum puteale</i> , <i>Maireana sedifolia</i> , <i>Maireana turbinata</i> , <i>Ptilotus obovatus</i> , <i>Sclerolaena obliquicuspis</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> , <i>Senna artemisioides</i> subsp. <i>x artemisioides</i> , <i>Sida arenicola</i> , <i>Sida phaeotricha</i> , <i>Sida spodochroma</i> , <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i> , <i>Solanum plicatile</i> , <i>Vittadinia sulcata</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Austrostipa platychaeta</i> , <i>Enneapogon polyphyllus</i> , <i>Eriachne pulchella</i> subsp. <i>pulchella</i> , <i>Paspalidium basicladum</i>
Herbs	<i>Cephalopterum drummondii</i> , <i>Eucalyptus drummondii</i> , <i>Haloragis gossei</i> , <i>Lepidium phlebopetalum</i> , <i>Salsola australis</i> , <i>Sida fibulifera</i> , <i>Swainsona formosa</i> , <i>Zygophyllum sp.</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 197

Described Date Type: Quadrat 20 x 20
MGA Zone 50 662957 mE 6754886 mN
Habitat undulating plain with gentle slope
Soil red orange sandy clay
Rock Type nil
Vegetation sparse *Acacia aneura* var. *intermedia* low trees over mixed low shrubs including *Eremophila gilesii* subsp. *variabilis* and Chenopod spp over open *Aristida contorta* soft grasses
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs 0.5-1 metres	<i>Sida arenicola</i>
Shrubs <0.5 metres	<i>Chrysocephalum pterochaetum</i> , <i>Eremophila gilesii</i> subsp. <i>variabilis</i> , <i>Indigofera georgei</i> , <i>Maireana tomentosa</i> , <i>Maireana turbinata</i> , <i>Sclerolaena patentiuspis</i> , <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Enteropogon ramosus</i> , <i>Monachather paradoxus</i>
Herbs	<i>Abutilon leucopetalum</i> , <i>Calotis multicaulis</i> , <i>Erodium carolinianum</i> , <i>Euphorbia drummondii</i> , <i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Panorama form), <i>Rhodanthe maryonii</i> , <i>Salsola australis</i> , <i>Swainsona affinis</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 198

Described CCS Date 10/07/200 Type: Quadrat 20 x 20
MGA Zone 50 660093 mE 6753219 mN
Habitat minor channel with gentle slope
Soil pale red orange sandy loam
Rock Type nil
Vegetation isolated *Eucalyptus ebbanoensis* subsp. *glauciramula* mallee trees over sparse *Acacia aneura* varieties *aneura* and *argentea* low trees over *Acacia burkittii* tall shrubs and open *Eremophila serrulata* medium shrubs
Veg Condition pristine
Fire nil
Notes Moderate leaf litter, mainly under shrubs and plentiful wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i>
Mallees	<i>Eucalyptus ebbanoensis</i> subsp. <i>glauciramula</i>
Shrubs >2 metres	<i>Acacia burkittii</i> , <i>Acacia kempeana</i>
Shrubs 1-2 metres	<i>Dodonaea lobulata</i> , <i>Eremophila serrulata</i> , <i>Rhagodia eremaea</i>
Shrubs 0.5-1 metres	<i>Maireana tomentosa</i> subsp. <i>tomentosa</i> , <i>Sida fibulifera</i>
Shrubs <0.5 metres	<i>Ptilotus obovatus</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon caerulescens</i> var. <i>caerulescens</i> , <i>Enteropogon ramosus</i> , <i>Eragrostis eriopoda</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 199

Described CCS Date 10/07/200 Type: Quadrat 20 x 20
MGA Zone 50 661801 mE 6753849 mN
Habitat flat plain/ clay depression
Soil pale red orange sandy loam
Rock Type nil
Vegetation scattered *Acacia sibilans* low trees over open mixed low shrubs including *Senna artemisioides* subsp. x *artemisioides*, *Senna* sp. Billabong and Chenopods over open *Aristida contorta* soft grasses
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter.

Species List:

Shrubs 1-2 metres	<i>Acacia sibilans</i> , <i>Acacia tetragonophylla</i> , <i>Rhagodia eremaea</i>
Shrubs 0.5-1 metres	<i>Chenopodium gaudichaudianum</i>
Shrubs <0.5 metres	<i>Chenopodium gaudichaudianum</i> , <i>Maireana pyramidata</i> , <i>Rhagodia</i> sp., <i>Sclerolaena densiflora</i> , <i>Senna artemisioides</i> subsp. x <i>artemisioides</i> , <i>Senna</i> sp. Billabong (J.D. Alonzo 721), <i>Sida atrovirens</i> , <i>Sida fibulifera</i> , <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	? <i>Cymbopogon</i> sp., <i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i>
Herbs	<i>Salicornia australis</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 201

Described Date Type: Quadrat 20 x 20
MGA Zone 50 653412 mE 6756884 mN
Habitat flat plain
Soil red orange sandy clay
Rock Type nil
Vegetation open *Eucalyptus concinna* mallee trees over sparse *Eremophila scoparia* medium shrubs over sparse *Senna artemisioides* subsp *petiolaris* low to very low shrubs over open *Triodia scariosa* hummock grasses
Veg Condition excellent
Fire old
Notes plentiful widespread leaf litter and negligible wood litter

Species List:

Mallees	<i>Eucalyptus concinna</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>?intermedia</i>
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Acacia nyssophylla</i> , <i>Acacia tetragonophylla</i> , <i>Eremophila scoparia</i>
Shrubs 0.5-1 metres	<i>Maireana sedifolia</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Maireana pentatropis</i> , <i>Maireana turbinata</i> , <i>Ptilotus obovatus</i>
Hummock grasses	<i>Triodia ?scariosa</i>
Herbs	<i>Ptilotus exaltatus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 202

Described SH Date 10/07/200 Type: Quadrat 20 x 20
MGA Zone 50 652591 mE 6756706 mN
Habitat flat plain
Soil red orange sandy clay
Rock Type ferrous and quartz
Vegetation sparse *Acacia aneura* var. *aneura* low trees over sparse *Eucalyptus trivalva* mallee trees over open juvenile *Acacia aneura* var. *aneura* very low shrubs over sparse *Eragrostis xerophila* soft grasses over open *Triodia scariosa* hummock grasses
Veg Condition good
Fire moderate
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Codonocarpus cotinifolius</i>
Mallees	<i>Eucalyptus</i> sp., <i>Eucalyptus trivalva</i> (do not use)
Shrubs 1-2 metres	<i>Acacia ligulata</i> , <i>Acacia tetragonophylla</i>
Shrubs <0.5 metres	<i>Acacia aneura</i> var. ? <i>aneura</i> , <i>Bertya dimerostigma</i> , <i>Dicrastylis ?nicholasii</i>
Hummock grasses	<i>Triodia scariosa</i>
Tussock and annual grasses	<i>Eragrostis xerophila</i> , POACEAE sp.



Phase 2 Site Descriptions Tropicana Operational Area

Site 203

Described Date Type: Quadrat 20 x 20
MGA Zone 50 652762 mE 6758449 mN
Habitat flat plain
Soil red orange sandy clay
Rock Type calcrete and quartz
Vegetation sparse *Acacia aneura* var. *aneura* low trees over sparse *Acacia burkittii* tall shrubs over sparse *Senna artemisioides* subsp. *petiolaris* medium to low shrubs over moderately dense *Ptilotus obovatus* var. *obovatus*, *Maireana turbinata* and *Maireana tomentosa* very low shrubs over open *Enneapogon caerulescens* var. *caerulescens* and *Triraphis mollis* soft grasses

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i>
Shrubs >2 metres	<i>Acacia burkittii</i>
Shrubs 1-2 metres	<i>Acacia nyssophylla</i> , <i>Acacia tetragonophylla</i> , <i>Rhagodia eremaea</i>
Shrubs 0.5-1 metres	<i>Maireana sedifolia</i>
Shrubs <0.5 metres	<i>Chrysocephalum puteale</i> , <i>Maireana tomentosa</i> , <i>Maireana turbinata</i> , <i>Sida fibulifera</i> , <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>
Tussock and annual grasses	<i>Enneapogon caerulescens</i> var. <i>caerulescens</i> , <i>Triraphis mollis</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 204

Described SH Date 10/07/200 Type: Quadrat 20 x 20
MGA Zone 50 653600 mE 6759563 mN
Habitat flat plain
Soil red orange sandy clay
Rock Type ferrous and quartz
Vegetation sparse *Acacia aneura* var. *intermedia* and *Acacia sibirica* low trees over open *Eucalyptus trivalva* and *Eucalyptus concinna* mallee trees over sparse *Acacia tetragonophylla* tall shrubs over sparse *Acacia burkittii* medium shrubs over sparse *Senna artemisioides* subsp. *petiolaris* low shrubs over sparse *Ptilotus obovatus* subsp. *obovatus* very low shrubs over sparse *Paspalidium* sp. soft grasses over open *Triodia basedowii* hummock grasses
Veg Condition good
Fire old
Notes Moderate leaf litter, mainly under shrubs and negligible wood litter.

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. ? <i>intermedia</i> , <i>Acacia sibirica</i>
Mallees	<i>Eucalyptus concinna</i> , <i>Eucalyptus trivalva</i> (do not use)
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Acacia nyssophylla</i> , <i>Acacia tetragonophylla</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i>
Shrubs 0.5-1 metres	<i>Eremophila alternifolia</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Eremophila gilesii</i> subsp. <i>variabilis</i> , <i>Maireana pentatropis</i> , <i>Maireana tomentosa</i> subsp. <i>tomentosa</i> , <i>Maireana trichoptera</i> , <i>Ptilotus obovatus</i> , <i>Solanum lasiophyllum</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	? <i>Paspalidium</i> sp.



Phase 2 Site Descriptions Tropicana Operational Area

Site 205

Described SH Date 7/07/2007 Type: Quadrat 20 x 20
 Season E
 MGA Zone 50 649973 mE 6746385 mN
 Habitat south facing dune mid slope
 Soil red orange sand
 Rock Type nil
 Vegetation open *Eucalyptus trivalva* and *Eucalyptus concinna* mallee trees over sparse to open *Thryptomene biseriata* tall to medium shrubs over sparse *Eremophila georgei* and *Pityrodia loricata* low shrubs over sparse *Westringia rigida* very low shrubs over open *Triodia desertorum* hummock grasses
 Veg Condition good
 Fire moderate
 Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Mallees	<i>Eucalyptus concinna</i> , <i>Eucalyptus trivalva</i> (do not use)
Shrubs >2 metres	<i>Callitris preissii</i>
Shrubs 1-2 metres	<i>Acacia prainii</i> , <i>Eremophila fraseri</i> , <i>Grevillea juncifolia</i> subsp. <i>temulenta</i> , <i>Thryptomene biseriata</i>
Shrubs 0.5-1 metres	<i>Daviesia grahamii</i> , <i>Eremophila alternifolia</i> , <i>Eremophila georgei</i>
Shrubs <0.5 metres	<i>Chrysocephalum puteale</i> , <i>Commersonia melanopetala</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Westringia rigida</i>
Tussock and annual grasses	<i>Triodia desertorum</i>
Sedges and sedge-like	<i>Lomandra leucocephala</i> subsp. <i>robusta</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 206

Described Date Type: Quadrat 20 x 20
MGA Zone 50 650281 mE 6745727 mN
Habitat flat plain
Soil red orange sandy clay
Rock Type ferrous and granite
Vegetation sparse *Acacia aneura* var. *aneura* low trees over open *Acacia aneura* varieties *intermedia* and *argentea* over tall shrubs over sparse *Aluta maisonneuvei* subsp. *auriculata* low shrubs over sparse *Aristida holathera* subsp *holathera* soft grasses
Veg Condition good
Fire old
Notes moderate widespread leaf litter and moderate wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs 1-2 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 207

Described Date Type: Quadrat 20 x 20
MGA Zone 50 651096 mE 6745628 mN
Habitat flat plain
Soil orange sandy clay
Rock Type nil
Vegetation open *Eucalyptus concinna* mallee trees over sparse *Senna artemisioides* subsp. *petiolaris* medium trees over sparse *Westringia rigida* low shrubs over *Keraudrenia velutina* subsp. *elliptica* very low shrubs over open *Triodia scariosa* hummock grasses
Veg Condition good
Fire old
Notes Moderate leaf litter, mainly under shrubs and moderate wood litter.

Species List:

Mallees	<i>Eucalyptus concinna</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>argentea</i>
Shrubs 1-2 metres	<i>Acacia burkittii</i> , <i>Acacia ligulata</i> , <i>Acacia nyssophylla</i> , <i>Acacia tetragonophylla</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs 0.5-1 metres	<i>Allocasuarina helmsii</i> , <i>Westringia rigida</i>
Shrubs <0.5 metres	<i>Keraudrenia velutina</i> subsp. <i>elliptica</i>
Hummock grasses	<i>Triodia scariosa</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 208

Described SH Date 7/07/2007 Type: Quadrat 20 x 20
MGA Zone 50 650840 mE 6746452 mN
Habitat swale
Soil orange sand
Rock Type nil
Vegetation open *Grevillea juncifolia* subsp. *temulenta* tall shrubs over sparse *Leptospermum fastigiatum* medium to low shrubs over *Aluta maisonneuvei* subsp. *auriculata* and *Callitris preissii* very low shrubs over open *Triodia basedowii* hummock grasses
Veg Condition good
Fire moderate
Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Mallees	<i>Eucalyptus ?leptopoda</i> subsp. <i>elevata</i>
Shrubs >2 metres	<i>Acacia murrayana</i> , <i>Grevillea juncifolia</i> subsp. <i>temulenta</i> , <i>Hakea francisiana</i>
Shrubs 1-2 metres	<i>Duboisia hopwoodii</i> , <i>Leptospermum fastigiatum</i>
Shrubs <0.5 metres	<i>Acacia</i> aff. <i>sorophylla</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Callitris preissii</i> , <i>Dicrastylis brunnea</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Leptospermum fastigiatum</i> , <i>Newcastelia hexarrhena</i>
Hummock grasses	<i>Triodia basedowii</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 210

Described SH Date 14/07/200 Type: Quadrat 20 x 20
 Season E
 MGA Zone 50 646744 mE 6764886 mN
 Habitat Dune slope
 Soil orange sand
 Rock Type nil
 Vegetation sparse *Codonocarpus cotinifolius* low trees over isolated *Leptosema chambersii* medium shrubs over open *Newcastelia hexarrhena* and *Eremophila forrestii* low shrubs over sparse *Scaevola basedowii* and *Lepidobolus deserti* very low shrubs over sparse *Aristida holathera* var. *holathera* soft grasses over sparse *Triodia basedowii* hummock grasses
 Veg Condition good
 Fire moderate
 Notes Negligible leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees <5 metres	<i>Codonocarpus sp.</i>
Mallees	<i>Eucalyptus youngiana</i>
Shrubs >2 metres	<i>Gyrostemon ramulosus</i>
Shrubs 1-2 metres	<i>Acacia ligulata</i> , <i>Leptosema chambersii</i>
Shrubs 0.5-1 metres	<i>Bertya dimerostigma</i> , <i>Eremophila forrestii</i> , <i>Newcastelia hexarrhena</i>
Shrubs <0.5 metres	<i>Alyogyne pinoniana</i> , <i>Chrysocephalum puteale</i> , <i>Dicrastylis sp. Cundeeleensis</i> (D.J. Pearson 101), <i>Grevillea juncifolia</i> subsp. <i>temulenta</i> , <i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i> , <i>Leptospermum fastigiatum</i> , <i>Pityrodia loricata</i> , <i>Scaevola basedowii</i> , <i>Thryptomene biseriata</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i>
Herbs	<i>Dampiera ramosa</i>
Sedges and sedge-like	<i>Lepidobolus deserti</i> , <i>Lomandra leucocephala</i> subsp. <i>robusta</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 211

Described SH Date 14/07/200 Type: Quadrat 20 x 20
Season E
MGA Zone 50 646372 mE 6765005 mN
Habitat Dune swale
Soil Sand
Rock Type nil
Vegetation *Eucalyptus ewartiana* open medium mallee, over *Codonocarpus cotinifolius* and *Callitris preissii* trees-shrubs, over other shrubs such as *Aluta maisonneuvei* subsp. *auriculata* and *Solanum plicatile*, with *Amphipogon carcinus* and *Triodia basedowii* grasses.
Veg Condition good
Fire very recent
Notes Sparse leaf litter mainly under shrubs, sparse wood litter

Species List:

Trees <5 metres	<i>Codonocarpus cotinifolius</i>
Mallees	<i>Eucalyptus ewartiana</i> , <i>Eucalyptus youngiana</i>
Shrubs >2 metres	<i>Duboisia hopwoodii</i>
Shrubs 0.5-1 metres	<i>Bertya dimerostigma</i> , <i>Hakea francisiana</i>
Shrubs <0.5 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Alyogyne pinoniana</i> , <i>Callitris preissii</i> , <i>Grevillea acacioides</i> , <i>Grevillea juncifolia</i> subsp. <i>temulenta</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Amphipogon carcinus</i> var. <i>carcinus</i> , <i>Aristida holathera</i> var. <i>holathera</i> , <i>Eragrostis setifolia</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 212

Described Date Type: Quadrat 20 x 20
MGA Zone 50 645753 mE 6766270 mN
Habitat Linear dune slope
Soil yellow orange sand
Rock Type nil
Vegetation isolated *Callitris columellaris* and *Codonocarpus cotinifolia* low trees over open *Anthotroche pannosa* low shrubs over open *Pityrodia loricata* and *Acacia acanthoclada* very low shrubs over sparse *Triodia desertorum* hummock grasses
Veg Condition Pristine
Fire very recent
Notes Sparse leaf litter mainly under shrubs, negligible wood litter

Species List:

Trees <5 metres	<i>Callitris columellaris</i> , <i>Codonocarpus cotinifolius</i>
Shrubs 0.5-1 metres	<i>Acacia ligulata</i> , <i>Anthotroche pannosa</i> , <i>Duboisia hopwoodii</i> , <i>Grevillea juncifolia</i> subsp. <i>temulenta</i>
Shrubs <0.5 metres	<i>Acacia acanthoclada</i> subsp. <i>acanthoclada</i> , <i>Acacia jamesiana</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Dicrastylis</i> sp., <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> , <i>Persoonia coriacea</i> , <i>Pityrodia loricata</i> , <i>Scaevola basedowii</i> , <i>Thryptomene biseriata</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 213

Described Date Type: Quadrat 20 x 20
MGA Zone 50 645382 mE 6766455 mN
Habitat interdune swale
Soil orange yellow sandy loam 3
Rock Type nil
Vegetation moderately dense *Acacia aneura* var. *argentea* low trees over sparse *Psydrax suaveolens* and mixed *Eremophila* species medium shrubs over sparse *Triodia desertorum* hummock grasses
Veg Condition Pristine
Fire nil
Notes Plentiful widespread leaf litter and plentiful wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>argentea</i>
Shrubs 1-2 metres	<i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Eremophila alternifolia</i> , <i>Eremophila georgei</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Psydrax suaveolens</i>
Shrubs 0.5-1 metres	<i>Eremophila forrestii</i> subsp. <i>forrestii</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Cymbopogon obtectus</i> , <i>Eriachne mucronata</i> (arid form) (MET 12 736)



Phase 2 Site Descriptions Tropicana Operational Area

Site 216

Described Date Type: Quadrat 20 x 20
MGA Zone 50 647938 mE 6767166 mN
Habitat flat plain
Soil orange sand
Rock Type granite
Vegetation open *Acacia aneura* varieties *aneura* and *intermedia* low trees to tall shrubs over open *Eucalyptus trivalva* mallee trees over open *Eremophila latrobei* subsp. *latrobei* medium to low shrubs over *Sida atrovirens* low to very low shrubs over sparse *Eragrostis xerophila* soft grasses over open *Triodia basedowii* hummock grasses
Veg Condition good
Fire old
Notes moderate widespread leaf litter and moderate wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>intermedia</i>
Mallees	<i>Eucalyptus trivalva</i> (do not use)
Shrubs >2 metres	<i>Acacia ramulosa</i> var. <i>ramulosa</i>
Shrubs 1-2 metres	<i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Psydrax suaveolens</i>
Shrubs 0.5-1 metres	<i>Sida atrovirens</i>
Shrubs <0.5 metres	<i>Dodonaea lobulata</i> , <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eragrostis xerophila</i>
Herbs	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 217

Described	SH	Date	Type: Quadrat 20 x 20
MGA Zone	50	647590 mE	6767205 mN
Habitat	swale		
Soil	red orange sandy clay		
Rock Type	nil		
Vegetation	isolated to open <i>Duboisia hopwoodii</i> tall to medium shrubs over open <i>Alyogyne pinoniana</i> medium shrubs over <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i> and <i>Anthotroche pannosa</i> low shrubs over sparse <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i> over climbers <i>Jasminum sp</i> over isolated <i>Paspalidium basicladum</i> soft grasses over sparse <i>Triodia basedowii</i> hummock grasses		
Fire	moderate		
Notes	Moderate leaf litter, mainly under shrubs and moderate wood litter.		

Species List:

Shrubs >2 metres	<i>Duboisia hopwoodii</i>
Shrubs 1-2 metres	<i>Alyogyne pinoniana</i> , <i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>
Shrubs 0.5-1 metres	<i>Anthotroche pannosa</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i>
Shrubs <0.5 metres	<i>Acacia ligulata</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Dicrastylis brunnea</i> , <i>Dodonaea rigida</i> , <i>Grevillea juncifolia</i> subsp. <i>temulenta</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i> , <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> , <i>Indigofera georgei</i> , <i>Olearia arida</i> , <i>Ptilotus obovatus</i> , <i>Senna pleurocarpa</i> var. <i>pleurocarpa</i> , <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i> , <i>Solanum plicatile</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eriachne helmsii</i> , <i>Paspalidium basicladum</i>
Twiners	<i>Jasminum sp.</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 218

Described Date Type: Quadrat 20 x 20
MGA Zone 50 656659 mE 6779291 mN
Habitat flat plain
Soil red orange sandy clay
Rock Type nil
Vegetation open *Acacia aneura* var. *aneura* and *Acacia sibirica* low trees over sparse *Eucalyptus trivalva* mallee trees over sparse *Eremophila gilesii* subsp. *variabilis* very low shrubs over open mixed soft grasses
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under mallees and moderate wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus trivalva</i> (do not use)
Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia sibirica</i>
Shrubs >2 metres	<i>Acacia burkittii</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i>
Shrubs 1-2 metres	<i>Rhagodia eremaea</i>
Shrubs 0.5-1 metres	<i>Spartothamnella teucriflora</i>
Shrubs <0.5 metres	<i>Abutilon</i> sp., <i>Eremophila gilesii</i> subsp. <i>variabilis</i> , <i>Maireana</i> sp.2, <i>Maireana tomentosa</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enteropogon ramosus</i> , <i>Eragrostis eriopoda</i> , <i>Monachather paradoxus</i> , <i>Paspalidium basicladum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 219

Described Date Type: Quadrat 20 x 20
MGA Zone 50 659416 mE 6776276 mN
Habitat mid slope of breakaway
Soil orange sandy clay
Rock Type granite
Vegetation sparse *Acacia quadrimarginea* tall shrubs over open *Sida calyxhymenia* low shrubs over open *Ptilotus obovatus* very low shrubs over sparse *Isotoma petraea* and *Cheilanthes sieberi* subsp. *sieberi* herbs over sparse *Eragrostis pergracilis* and *Enteropogon ramosus* soft grasses
Veg Condition good
Fire nil
Notes Negligible leaf litter, mainly under shrubs and negligible wood litter

Species List:

Shrubs 1-2 metres	<i>Acacia quadrimarginea</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i>
Shrubs 0.5-1 metres	<i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Sida calyxhymenia</i>
Shrubs <0.5 metres	<i>Leiocarpa semicalva</i> subsp. <i>semicalva</i> , <i>Olearia stuartii</i> , <i>Ptilotus obovatus</i> , <i>Sida atrovirens</i>
Tussock and annual grasses	<i>Austrostipa platychaeta</i> , <i>Enteropogon ramosus</i> , <i>Eragrostis pergracilis</i>
Herbs	<i>Abutilon</i> sp., <i>Cheilanthes sieberi</i> subsp. <i>sieberi</i> , <i>Isotoma petraea</i> , <i>Nicotiana rosulata</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 220

Described Date Type: Quadrat 20 x 20
MGA Zone 50 659349 mE 6776452 mN
Habitat mid slope of breakaway
Soil orange sandy clay
Rock Type granite
Vegetation open *Acacia coolgardiensis* subsp. *coolgardiensis* medium shrubs over sparse *Eremophila latrobei* subsp. *latrobei* and open *Keraudrenia velutina* subsp. *elliptica* over sparse *Ptilotus obovatus* and *Aluta maisonneuvei* subsp. *auriculata* very low shrubs over sparse *Eriachne mucronata* (arid form) herbs over sparse *Eragrostis pergracilis* and *Austrostipa platychaeta* soft grasses
Veg Condition good
Fire nil
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Shrubs 1-2 metres	<i>Acacia coolgardiensis</i> subsp. <i>coolgardiensis</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i>
Shrubs 0.5-1 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Keraudrenia velutina</i> subsp. <i>elliptica</i>
Shrubs <0.5 metres	<i>Dodonaea microzyga</i> var. <i>acrolobata</i> , <i>Maireana tomentosa</i> subsp. <i>tomentosa</i> , <i>Ptilotus obovatus</i>
Tussock and annual grasses	<i>Aristida holathera</i> var. <i>holathera</i> , <i>Austrostipa platychaeta</i> , <i>Enteropogon ramosus</i> , <i>Eragrostis eriopoda</i> , <i>Eragrostis pergracilis</i> , <i>Eriachne mucronata</i> (arid form) (MET 12 736)
Herbs	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i> , <i>Sida fibulifera</i>
Twining	<i>Amyema fitzgeraldii</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 221

Described Date Type: Quadrat 20 x 20
MGA Zone 50 659215 mE 6776897 mN
Habitat ridge top of break away
Soil red orange sandy clay
Rock Type ferrous and granite
Vegetation open *Acacia aneura* var. *aneura* low trees over open *Halgania cyanea* var. *Allambi Stn* and sparse *Dodonaea rigida* low shrubs over isolated *Solanum lasiophyllum* and *Ptilotus obovatus* very low shrubs over sparse *Sida spodochroma* herbs over open *Eragrostis falcata* soft grasses
Veg Condition good
Fire nil
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>?aneura</i>
Shrubs 1-2 metres	<i>Eremophila latrobei</i> subsp. <i>latrobei</i>
Shrubs 0.5-1 metres	<i>Dodonaea rigida</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn</i> (B.W. Strong 676), <i>Senna glaucifolia</i>
Shrubs <0.5 metres	<i>Chrysocephalum puteale</i> , <i>Prostanthera sericea</i> , <i>Ptilotus obovatus</i> , <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Eragrostis falcata</i> , <i>Eriachne mucronata</i>
Herbs	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i> , <i>Sida spodochroma</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 222

Described Date Type: Quadrat 20 x 20
MGA Zone 50 658566 mE 6777221 mN
Habitat Foot slope
Soil red orange sandy clay
Rock Type granite
Vegetation open *Acacia aneura* varieties *microcarpa* and *tenuis* low trees over sparse *Acacia tetragonophylla* tall shrubs over sparse *Acacia quadrimarginea* medium shrubs over open *Senna artemisioides* subsp *artemisioides* and *Sida atrovirens* low shrubs over sparse *Chrysocephalum puteale* and *Ptilotus obovatus* very low shrubs over sparse *Cheilanthes sieberi* subsp. *sieberi* herbs over sparse *Aristida contorta* and *Enteropogon ramosus* soft grasses
Veg Condition good
Fire nil
Notes Sparse leaf litter, mainly under shrubs and negligible wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>microcarpa</i> , <i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>tenuis</i>
Shrubs >2 metres	<i>Acacia tetragonophylla</i>
Shrubs 1-2 metres	<i>Acacia quadrimarginea</i> , <i>Dodonaea rigida</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i>
Shrubs 0.5-1 metres	<i>Acacia exocarpoides</i> , <i>Chenopodium nitrariaceum</i> , <i>Eremophila georgei</i> , <i>Senna artemisioides</i> subsp. <i>x artemisioides</i> , <i>Sida atrovirens</i>
Shrubs <0.5 metres	<i>Chrysocephalum puteale</i> , <i>Maireana tomentosa</i> subsp. <i>tomentosa</i> , <i>Sclerolaena parviflora</i> , <i>Sida fibulifera</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Enteropogon ramosus</i> , <i>Eragrostis pergracilis</i>
Herbs	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 223

Described Date Type: Quadrat 20 x 20
MGA Zone 50 657613 mE 6779363 mN
Habitat Low crest top
Soil pale brown orange clay loam
Rock Type nil
Vegetation moderately dense *Acacia aneura* varieties tall shrubs over sparse *Eremophila latrobei* subsp. *latrobei* medium shrubs over sparse mixed soft grasses
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs 1-2 metres	<i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i>
Shrubs <0.5 metres	<i>Sida spodochroma</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Aristida</i> sp., <i>Eragrostis setifolia</i> , <i>Eriachne mucronata</i> (arid form) (MET 12 736), <i>Monachather paradoxus</i> , <i>Thyridolepis xerophila</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 224

Described Date Type: Quadrat 20 x 20
MGA Zone 50 657889 mE 6779680 mN
Habitat low rise/ crest
Soil pale brown orange clay loam
Rock Type nil
Vegetation open *Acacia aneura* varieties *aneura* and *intermedia* tall shrubs over sparse *Halgania cyanea* var. Allambi Stn medium shrubs over open *Eriachne mucronata* (desert form) soft grasses
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs 1-2 metres	<i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn</i> (B.W. Strong 676)
Tussock and annual grasses	<i>Eragrostis setifolia</i> , <i>Eriachne mucronata</i> (arid form) (MET 12 736)



Phase 2 Site Descriptions Tropicana Operational Area

Site 228

Described Date Type: Quadrat 20 x 20
MGA Zone 50 656089 mE 6772099 mN
Habitat low rise/ crest
Soil red orange loamy sand
Rock Type nil
Vegetation open *Callitris preissii* tall shrubs over open *Cratystylis subspinescens* and *Dodonaea viscosa* subsp. *angustissima* low shrubs over sparse *Frankenia fecunda* very low shrubs over sparse mixed soft grasses
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under shrubs and sparse wood litter

Species List:

Shrubs >2 metres	<i>Callitris preissii</i> , <i>Eremophila miniata</i>
Shrubs 1-2 metres	<i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Jacksonia arida</i>
Shrubs 0.5-1 metres	<i>Cratystylis subspinescens</i>
Shrubs <0.5 metres	<i>Atriplex vesicaria</i> , <i>Chenopodium desertorum</i> subsp. <i>rectum</i> , <i>Frankenia fecunda</i> , <i>Maireana tomentosa</i> subsp. <i>tomentosa</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Aristida holathera</i> , <i>Eragrostis eriopoda</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 229

Described CCS Date 11/07/200 Type: Quadrat 20 x 20
 Season E
 MGA Zone 50 657086 mE 6771084 mN
 Habitat flat plain
 Soil orange white clay
 Rock Type nil
 Vegetation sparse *Callitris preissii* medium to low trees over sparse *Eremophila scoparia* and open *Dodonaea viscosa* subsp. *angustissima* medium shrubs over open *Baeckea* sp. Gt. Victoria Desert low shrubs over open *Atriplex nummularia* very low shrubs over open *Eragrostis pergracilis* soft grasses
 Veg Condition good
 Fire nil
 Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees <5 metres	<i>Alectryon oleifolius</i> subsp. <i>canescens</i> , <i>Callitris preissii</i>
Mallees	<i>Eucalyptus gracilis</i>
Shrubs 1-2 metres	<i>Dodonaea viscosa</i> subsp. ? <i>angustissima</i> , <i>Eremophila scoparia</i>
Shrubs 0.5-1 metres	<i>Acacia nyssophylla</i> , <i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813), <i>Daviesia benthamii</i> subsp. <i>acanthoclona</i> , <i>Maireana sedifolia</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i>
Shrubs <0.5 metres	<i>Atriplex nummularia</i> , <i>Maireana pentatropis</i>
Tussock and annual grasses	<i>Austrostipa platychaeta</i> , <i>Eragrostis pergracilis</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 230

Described Date Type: Quadrat 20 x 20
MGA Zone 50 657596 mE 6779476 mN
Habitat Gully base and sides
Soil Red-orange sandy loam
Rock Type laterite
Vegetation moderately dense *Acacia aneura* varieties *aneura* and *intermedia* medium trees over open *Psyrax attenuata* tall shrubs over open mixed medium shrubs over open mixed grasses
Veg Condition Pristine
Fire nil
Notes moderate widespread leaf litter and plentiful wood litter

Species List:

Trees 5-15 metres	<i>Acacia ?ayersiana</i>
Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs >2 metres	<i>Psyrax attenuata</i>
Shrubs 1-2 metres	<i>Acacia exocarpoides</i> , <i>Acacia quadrimarginea</i> , <i>Dodonaea rigida</i> , <i>Eremophila alternifolia</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i> , <i>Keraudrenia velutina</i> , <i>Senna artemisioides</i> subsp. <i>x artemisioides</i>
Shrubs 0.5-1 metres	<i>Maireana tomentosa</i> , <i>Spartothamnella teucriflora</i>
Shrubs <0.5 metres	<i>Abutilon otocarpum</i> , <i>Leiocarpa semicalva</i> subsp. <i>semicalva</i> , <i>Sida arenicola</i> , <i>Sida spodochroma</i> , <i>Solanum ellipticum</i>
Tussock and annual grasses	<i>Aristida</i> sp., <i>Eragrostis pergracilis</i> , <i>Eriachne helmsii</i> , <i>Eriachne mucronata</i> (arid form) (MET 12 736), <i>Paspalidium basi cladum</i>
Herbs	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i> , <i>Erodium cygnorum</i> , <i>Sclerolaena convexula</i> , <i>Vittadinia sulcata</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 231

Described Date Type: Quadrat 20 x 20
MGA Zone 50 654204 mE 6775986 mN
Habitat flat plain
Soil Red-orange sandy clay
Rock Type nil
Vegetation open *Acacia aneura* var. *tenuis* medium to low trees over sparse *Eucalyptus trivalva* mallee trees over sparse *Acacia aneura* var. *aneura* tall shrubs over sparse *Eremophila latrobei* medium shrubs over sparse *Sida calyxhymenia* low shrubs over isolated *Ptilotus obovatus* very low shrubs over open *Aristida contorta* and *Eragrostis xerophila* soft grasses
Veg Condition good
Fire nil
Notes moderate widespread leaf litter and moderate wood litter

Species List:

Trees 5-15 metres	<i>Acacia aneura</i> var. <i>tenuis</i>
Mallees	<i>Eucalyptus trivalva</i> (do not use)
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i>
Shrubs 1-2 metres	<i>Scaevola spinescens</i>
Shrubs 0.5-1 metres	<i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Sida calyxhymenia</i> , <i>Spartothamnella teucriflora</i>
Shrubs <0.5 metres	<i>Chrysocephalum puteale</i> , <i>Maireana brevifolia</i> , <i>Ptilotus obovatus</i>
Hummock grasses	<i>Eragrostis xerophila</i>
Tussock and annual grasses	<i>Enneapogon polyphyllus</i>
Herbs	<i>Sida atrovirens</i>
	<i>Aristida contorta</i> , <i>Psydrax suaveolens</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 232

Described CCS Date 13/07/200 Type: Quadrat 20 x 20

MGA Zone 50 666224 mE 6775169 mN

Habitat low slab rock outcrop

Soil pale brown orange clay loam

Rock Type quartz and sandstone

Vegetation open *Acacia aneura* varieties tall shrubs over open *Sida calyxhymenia* over sparse *Eriachne mucronata* (desert form) soft grasses

Veg Condition pristine

Fire nil

Notes Sparse leaf litter, mainly under shrubs and moderate wood litter

Species List:

Trees 5-15 metres	<i>Acacia aneura</i> var. <i>tenuis</i>
Trees <5 metres	<i>Santalum spicatum</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>argentea</i> , <i>Acacia burkittii</i>
Shrubs 1-2 metres	<i>Acacia tetragonophylla</i> , <i>Dodonaea viscosa</i> subsp. ? <i>angustissima</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i>
Shrubs 0.5-1 metres	<i>Acacia kempeana</i> , <i>Sida calyxhymenia</i>
Shrubs <0.5 metres	<i>Abutilon oxycarpum</i> , <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> , <i>Spartothamnella teucriflora</i>
Tussock and annual grasses	<i>Eragrostis australasica</i> , <i>Eragrostis setifolia</i> , <i>Monachather paradoxus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 233

Described Date Type: Quadrat 20 x 20
MGA Zone 50 649768 mE 6773845 mN
Habitat low flat plain
Soil orange brown sandy clay
Rock Type ferrous and laterite
Vegetation sparse *Eucalyptus trivalva* and *Eucalyptus youngiana* and *Eucalyptus leptopoda* subsp *elevata*
mallee trees over open *Leptosema chambersii* very low shrubs over sparse *Triodia basedowii*
hummock grasses
Veg Condition pristine
Fire moderate
Notes Sparse leaf litter, mainly under mallees and sparse wood litter

Species List:

Mallees	<i>Eucalyptus leptopoda</i> subsp. <i>elevata</i> , <i>Eucalyptus trivalva</i> , <i>Eucalyptus youngiana</i>
Shrubs <0.5 metres	<i>Dicrastylis brunnea</i> , <i>Leptosema chambersii</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Amphipogon caricinus</i> var. <i>caricinus</i> , <i>Eragrostis falcata</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 234

Described Date Type: Quadrat 20 x 20
MGA Zone 50 651659 mE 6772457 mN
Habitat Broad rise
Soil brown clay loam
Rock Type calcrete
Vegetation open *Casuarina pauper* medium trees over sparse *Eremophila scoparia* medium shrubs over open *Maireana sedifolia* and *Senna artemisioides* subsp *filifolia* low shrubs
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under trees and sparse wood litter

Species List:

Trees 5-15 metres	<i>Casuarina pauper</i>
Shrubs 1-2 metres	<i>Acacia colletioides</i> , <i>Eremophila scoparia</i>
Shrubs 0.5-1 metres	<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i> , <i>Maireana sedifolia</i> , <i>Scaevola spinescens</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Sida calyxhymenia</i>
Shrubs <0.5 metres	<i>Maireana triptera</i> , <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> , <i>Senna artemisioides</i> subsp. <i>artemisioides</i>
Hummock grasses	<i>Triodia scariosa</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 235

Described Date Type: Quadrat 20 x 20
MGA Zone 50 656348 mE 6774330 mN
Habitat undulating plain
Soil pale brown orange clay sand
Rock Type quartz and calcrete
Vegetation isolated *Acacia aneura* var. *intermedia* low trees over isolated mixed very low shrubs over moderately dense mixed soft grasses
Veg Condition pristine
Fire nil
Notes Negligible leaf litter and negligible wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>intermedia</i>
Shrubs <0.5 metres	<i>Abutilon leucopetalum</i> , <i>Maireana integra</i> , <i>Maireana sedifolia</i> , <i>Sclerolaena obliquicuspis</i> , <i>Sida fibulifera</i> , <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Enteropogon ramosus</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 236

Described Date Type: Quadrat 20 x 20
MGA Zone 50 640113 mE 6764861 mN
Habitat undulating plain
Soil yellow sand
Rock Type nil
Vegetation open *Eucalyptus gongylocarpa* low trees over open *Callitris columellaris* and *Acacia aneura* var. *aneura* tall shrubs over open *Bertya dimerostigma* low shrubs over sparse *Triodia desertorum* hummock grasses
Veg Condition pristine
Fire nil
Notes Moderate leaf litter, mainly under trees and moderate wood litter

Species List:

Trees <5 metres	<i>Eucalyptus gongylocarpa</i> , <i>Santalum acuminatum</i>
Mallees	<i>Eucalyptus concinna</i>
Shrubs >2 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>Callitris columellaris</i> , <i>Hakea francisiana</i>
Shrubs 1-2 metres	<i>Acacia colletioides</i> , <i>Acacia tetragonophylla</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> , <i>Pittosporum angustifolium</i>
Shrubs 0.5-1 metres	<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Bertya dimerostigma</i>
Shrubs <0.5 metres	<i>Acacia</i> aff. <i>sorophylla</i> , <i>Senna artemisioides</i> subsp. <i>artemisioides</i>
Hummock grasses	<i>Triodia desertorum</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 237

Described Date Type: Quadrat 20 x 20
MGA Zone 50 657783 mE 6767923 mN
Habitat undulating plain
Soil Red-orange sandy clay
Rock Type quartz
Vegetation sparse *Acacia aneura* varieties *aneura* and *intermedia* and *Hakea lorea* subsp. *lorea* low trees over sparse mixed very low shrubs over open mixed soft grasses
Veg Condition pristine
Fire nil
Notes Sparse leaf litter, mainly under trees and sparse wood litter

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia aneura</i> var. <i>intermedia</i> , <i>Hakea lorea</i> subsp. <i>lorea</i>
Shrubs 0.5-1 metres	<i>Maireana pyramidata</i>
Shrubs <0.5 metres	<i>Ptilotus obovatus</i> , <i>Sclerolaena obliquicuspis</i> , <i>Solanum ellipticum</i> , <i>Solanum lasiophyllum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Enneapogon polyphyllus</i> , <i>Enteropogon ramosus</i> , <i>Eragrostis xerophila</i> , <i>Monachather paradoxus</i> , <i>Podolepis capillaris</i>
Herbs	<i>Euphorbia drummondii</i> , <i>Erodium</i> sp



Phase 2 Site Descriptions Tropicana Operational Area

Site 238

Described CCS Date 12/07/200 Type: Quadrat 20 x 20
 Season E Uniformity changed from Site 179B(CS)
 MGA Zone 50 656880 mE 6778513 mN
 Habitat flat plain
 Soil Red-orange sandy clay
 Rock Type nil
 Vegetation isolated *Acacia aneura* low trees over open *Eucalyptus concinna* and *Eucalyptus trivalva* mallee trees over open *Senna artemisioides* subsp *petiolaris* and mixed Chenopodiaceous low shrubs over sparse mixed soft grasses
 Veg Condition pristine
 Fire nil
 Notes Moderate leaf litter, mainly under trees and moderate wood litter

Species List:

Trees 5-15 metres	<i>Eucalyptus concinna</i> , <i>Eucalyptus trivalva</i> (do not use)
Trees <5 metres	<i>Alectryon oleifolius</i> subsp. <i>canescens</i>
Shrubs >2 metres	<i>Acacia burkittii</i> , <i>Hakea rhombales</i>
Shrubs 1-2 metres	<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>
Shrubs 0.5-1 metres	<i>Chenopodium nitrariaceum</i> , <i>Eremophila glabra</i> subsp. <i>glabra</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Eremophila serrulata</i> , <i>Maireana pyramidata</i> , <i>Maireana sp.1</i> , <i>Maireana sp.2</i> , <i>Senna artemisioides</i> subsp. <i>petiolaris</i> , <i>Sida atrovirens</i>
Shrubs <0.5 metres	<i>Abutilon sp.</i> , <i>Atriplex vesicaria</i> , <i>Chenopodium gaudichaudianum</i> , <i>Sida fibulifera</i> , <i>Zygophyllum eremaeum</i>
Tussock and annual grasses	<i>Aristida contorta</i> , <i>Aristida holathera</i> , <i>Aristida holathera</i> var. <i>holathera</i> , <i>Austrostipa platychaeta</i> , <i>Enneapogon polyphyllus</i> , <i>Eragrostis setifolia</i> , <i>Paspalidium basicladum</i>
Herbs	<i>Euphorbia drummondii</i>
Twining	<i>Amyema fitzgeraldii</i> , <i>Rhyncharrhena linearis</i>



Phase 2 Site Descriptions Tropicana Operational Area

Site 239

Described CCS Date Type: Quadrat 20 x 20
MGA Zone 50 633526 mE 6745741 mN
Vegetation sparse *Acacia aneura* var. *intermedia* and *Callitris preissii* low trees over isolated *Eucalyptus oldfieldii* mallee trees over moderately dense *Melaleuca leiocarpa* and *Acacia heteroneura* var. *jutsonii* medium shrubs
Veg Condition pristine
Fire moderate

Species List:

Trees <5 metres	<i>Acacia aneura</i> var. <i>intermedia</i> , <i>Callitris preissii</i> , <i>Codonocarpus cotinifolius</i>
Mallees	<i>Eucalyptus oldfieldii</i>
Shrubs 1-2 metres	<i>Acacia heteroneura</i> var. <i>jutsonii</i> , <i>Hakea francisiana</i> , <i>Melaleuca leiocarpa</i>
Shrubs 0.5-1 metres	<i>Acacia hemiteles</i> , <i>Bertya dimerostigma</i> , <i>Leptospermum fastigiatum</i>
Shrubs <0.5 metres	<i>Acacia</i> aff. <i>sorophylla</i> , <i>Aluta maisonneuvei</i> subsp. <i>auriculata</i> , <i>Dicrastylis</i> sp. <i>Cundeeleensis</i> (D.J. Pearson 101), <i>Keraudrenia velutina</i> subsp. <i>elliptica</i> , <i>Mirbelia rhagodioides</i>
Hummock grasses	<i>Triodia basedowii</i>
Tussock and annual grasses	<i>Eragrostis falcata</i>



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Appendix H Site descriptions Phase 2
Refer to attached compact disc



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Appendix I Species by site matrix Phase 1

Appendix I Phase 1 Species x site matrix

Species	s01	s02	s03	s05	s06	s07	s09	s10	s100	s101
? Daviesia sp.										
?Isotoma sp.				0.1						
Abutilon ? oxycarpum										
Abutilon otocarpum										
Acacia ? sibina										
Acacia acanthoclada subsp. acanthoclada								1		
Acacia aneura										3
Acacia aneura var. ? intermedia										
Acacia aneura var. aneura	4									
Acacia aneura var. argentea			2							2
Acacia aneura var. intermedia										
Acacia aneura var. tenuis										
Acacia burkittii									1	
Acacia colletioides										1
Acacia desertorum var. desertorum				0.1						0.1
Acacia eremophila numerous-nerved variant (A.S. George 11924)							2			
Acacia helmsiana										
Acacia jamesiana				0.1					2	
Acacia ligulata								3		
Acacia murrayana										1
Acacia oswaldii			1	1						0.1
Acacia prainii										1
Acacia quadrimarginea										
Acacia ramulosa var. linophylla										
Acacia ramulosa var. ramulosa										
Acacia rigens										
Acacia sibirica			2						1	
Acacia tetragonophylla			1	1						
Adriana urticoides var. hookeri										
Alectryon oleifolius subsp. canescens				1						
Aluta maisonneuvei subsp. auriculata					2	2		1	1	
Alyogyne pinoniana					0.1	0.1	1	1	1	0.1
Alyxia buxifolia								0.1		
Amphipogon caricinus					0.1	0.1				0.1
Amphipogon caricinus var. caricinus										
Amyema fitzgeraldii										
Amyema miquelii										
Anthobolus leptomerioides			1							

Appendix I Phase 1 Species x site matrix

Species	s01	s02	s03	s05	s06	s07	s09	s10	s100	s101
<i>Anthotroche pannosa</i>					0.1		2	1		
<i>Aristida contorta</i>										
<i>Aristida holathera</i> var. <i>holathera</i>				0.1	0.1					0.1
<i>Aristida</i> sp.										
<i>Atriplex</i> ? <i>vesicaria</i>										
<i>Atriplex nummularia</i>										
<i>Atriplex</i> sp.										
<i>Atriplex vesicaria</i>										
<i>Austrostipa</i> ? <i>nitida</i>			0.1							
<i>Austrostipa elegantissima</i>										
<i>Austrostipa platychaeta</i>										
<i>Austrostipa</i> sp.										
<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963)										
<i>Bertya dimerostigma</i>							1			1
<i>Boerhavia coccinea</i> ?										
<i>Boerhavia</i> sp.?										
<i>Brachyscome</i> sp.										
<i>Brunonia australis</i>										
<i>Bulbostylis barbata</i>										
<i>Calandrinia balonensis</i>										
<i>Callitris</i> ? <i>columellaris</i>								0.1		
<i>Callitris columellaris</i>						1				0.1
<i>Callitris</i> sp.				0.1	0.1		0.1			
<i>Casuarina pauper</i>		3	2							
<i>Caustis dioica</i>										
<i>Centaurium spicatum</i>										
<i>Centrolepis eremica</i>										
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>										
<i>Chenopodium desertorum</i>				1						
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>										
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>										
<i>Chenopodium gaudichaudianum</i>										
<i>Chenopodium melanocarpum</i> forma <i>melanocarpum</i>										
<i>Chenopodium</i> sp.										
<i>Chrysocephalum apiculatum</i>										0.1
<i>Chrysocephalum eremaeum</i> ?										
<i>Chrysocephalum puteale</i>										
<i>Codonocarpus cotinifolius</i>				1	2	2				1

Appendix I Phase 1 Species x site matrix

Species	s01	s02	s03	s05	s06	s07	s09	s10	s100	s101
<i>Commersonia melanopetala</i>										0.1
<i>Convolvulus remotus?</i>										
<i>Cratystylis subspinescens</i>										
<i>Dampiera dentata</i>										
<i>Dampiera ramosa</i>										
<i>Dampiera tomentosa</i>										
<i>Daviesia grahamii</i>										
<i>Dicrastylis brunnea</i>						2		1		
<i>Dicrastylis nicholasii</i>										
<i>Dicrastylis</i> sp. Cundeelee (D.J. Pearson 101)						1		1		1
<i>Dodonaea adenophora</i>									1	
<i>Dodonaea lobulata</i>		1								
<i>Dodonaea rigida</i>										
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>								1		
<i>Duboisia hopwoodii</i>				0.1	2	1				0.1
<i>Dysphania kalpari</i>										
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>										
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>										
<i>Enneapogon caerulescens</i>										
<i>Enneapogon cylindricus</i>										
<i>Enneapogon polyphyllus</i>			1							
<i>Enneapogon</i> sp.										
<i>Eragrostis ? falcata</i>										
<i>Eragrostis dielsii</i>										
<i>Eragrostis eriopoda</i>	0.1				0.1					
<i>Eragrostis pergracilis</i>										
<i>Eragrostis setifolia</i>					0.1					
<i>Eragrostis</i> sp.										
<i>Eragrostis xerophila</i>										
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>							1	1		
<i>Eremophila forrestii</i>										
<i>Eremophila georgei</i>										
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>										
<i>Eremophila latrobei</i>										
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>	0.1									
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	0.1	1					0.1	1		
<i>Eremophila longifolia</i>										
<i>Eremophila miniata</i>										

Appendix I Phase 1 Species x site matrix

Species	s01	s02	s03	s05	s06	s07	s09	s10	s100	s101
<i>Eremophila oppositifolia</i>										
<i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>							1			
<i>Eremophila platycalyx</i> subsp. <i>platycalyx</i>								2		
<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>							2			1
<i>Eremophila punctata</i>										
<i>Eremophila scoparia</i>		2	2				0.1			
<i>Eremophila serrulata</i>										
<i>Eriachne helmsii</i>								1		
<i>Eriachne mucronata</i> (desert form)		0.1								
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>										
<i>Eriachne</i> sp.										
<i>Eriochloa</i> sp.										
<i>Erodium</i> sp.										
<i>Eucalyptus</i> ? <i>carnei</i>					3					
<i>Eucalyptus</i> ? <i>leptopoda</i>										
<i>Eucalyptus</i> ? <i>leptophylla</i>										
<i>Eucalyptus</i> ? <i>trivalvis</i>				0.1						
<i>Eucalyptus concinna</i>			2							
<i>Eucalyptus effusa</i>									2	
<i>Eucalyptus gamophylla</i>										
<i>Eucalyptus gongylocarpa</i>					2			3	1	1
<i>Eucalyptus horistes</i>							3			
<i>Eucalyptus leptopoda</i> subsp. <i>elevata</i>										
<i>Eucalyptus oldfieldii</i>										
<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>									3	1
<i>Eucalyptus trivalvis</i>							2	3		
<i>Eucalyptus youngiana</i>									2	
<i>Euphorbia</i> ? <i>drummondii</i>										
<i>Euphorbia drummondii</i>										
<i>Euphorbia</i> sp.										
<i>Euphorbiaceae</i> sp.?										
<i>Frankenia</i> ? <i>fecunda</i>										
<i>Frankenia fecunda</i>										
<i>Glischrocaryon aureum</i> var. <i>aureum</i>										
<i>Goodenia</i> ? <i>triodiophila</i>										
<i>Goodenia elderi</i>										
<i>Goodenia occidentalis</i>										
<i>Goodenia quasilibera</i>										

Appendix I Phase 1 Species x site matrix

Species	s01	s02	s03	s05	s06	s07	s09	s10	s100	s101
Goodenia ramelii						0.1				
Goodenia scaevolina				0.1	1					
Goodenia xanthosperma				0.1	1				0.1	
Grevillea ?juncifolia										
Grevillea acacioides										
Grevillea juncifolia										
Grevillea juncifolia subsp. temulenta								1		
Grevillea nematophylla						1				
Grevillea nematophylla subsp. planicosta										
Grevillea secunda										
Grevillea stenobotrya										
Gyrostemon ? ramulosus										
Gyrostemon ramulosus										
Gyrostemon sp.										
Hakea francisiana				0.1		1	1			
Hakea lorea ssp. lorea										
Halgania cyanea var. Allambi Stn (B.W. Strong 676)										
Haloragis trigonocarpa										
Halosarcia ? aff. undulata										
Hannafordia bissillii subsp. bissillii				0.1			2	1		
Hannafordia quadrivalvis subsp. quadrivalvis							1			
Jacksonia arida										
Jasminum didymum subsp. lineare							1			
Jasminum sp.										
Kennedia prorepens										
Keraudrenia velutina									1	
Keraudrenia velutina subsp. elliptica						1				2
Lawrencia ? glomerata										
Lawrencia sp.?										
Lechenaultia striata										
Lepidium sp.?										
Lepidobolus deserti										
Leptosema chambersii				0.1	1				2	
Leptospermum fastigiatum									2	
Lomandra leucocephala subsp. robusta										2
Lysiana ? murrayi										
Lysiana murrayi										
Maireana ? tomentosa		0.1								

Appendix I Phase 1 Species x site matrix

Species	s01	s02	s03	s05	s06	s07	s09	s10	s100	s101
Maireana ?villosa										
Maireana georgei										
Maireana integra										
Maireana sedifolia			1	1						
Maireana sp.				0.1						
Maireana tomentosa			0.1	2						
Maireana triptera										
Maireana villosa										
Marsdenia australis										
Melaleuca interioris										
Melaleuca leiocarpa										
Microcorys macrediana										
Micromyrtus stenocalyx										
Minuria tridens										
Monachather paradoxus		0.1								
Monotaxis luteiflora					0.1	1				
Myoporum platycarpum										
Newcastelia hexarrhena										
Nicotiana sp.										
Olearia arida										
Olearia decurrens				1						
Olearia exiguifolia										
Olearia muelleri			1							
Olearia subspicata										
Paspalidium basicladium										
Paspalidium clementii				0.1						
Paspalidium sp.			0.1							
Petalostylis cassioides										
Pimelea microcephala subsp. microcephala								1		
Pittosporum angustifolium			1					1		
Pityrodia loricata										2
Poaceae sp.										
Podolepis capillaris										
Pomax sp. desert (A.S. George 11968)										
Prostanthera ? althoferi										
Prostanthera ? sericea										
Prostanthera althoferi subsp. althoferi										
Prostanthera sericea										

Appendix I Phase 1 Species x site matrix

Species	s01	s02	s03	s05	s06	s07	s09	s10	s100	s101
<i>Psydrax rigidula</i>										
<i>Psydrax suaveolens</i>										
<i>Ptilotus drummondii</i>										
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>		0.1								
<i>Ptilotus exaltatus</i> var. <i>villosus</i>										
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>										
<i>Ptilotus obovatus</i>		0.1								
<i>Ptilotus obovatus</i> var. <i>obovatus</i>			2							
<i>Ptilotus polystachyus</i>										
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>										
<i>Ptilotus</i> sp.										
<i>Ptilotus</i> sp. 2										
<i>Rhagodia ?eremaea</i>										
<i>Rhagodia eremaea</i>										
<i>Rhodanthe floribunda</i>										
<i>Rhyncharrhena linearis</i>										
<i>Salicornia australis</i>			0.5							
<i>Santalum acuminatum</i>										
<i>Santalum spicatum</i>		1	1							
<i>Scaevola basedowii</i>								1		0.1
<i>Scaevola parvifolia</i>						1	1			
<i>Scaevola spinescens</i>		0.1	1							
<i>Sclerolaena convexula</i>										
<i>Sclerolaena diacantha</i>										
<i>Sclerolaena eriacantha</i>										
<i>Sclerolaena fimbriolata</i>										
<i>Sclerolaena patenticuspis</i>										
Scrophulariaceae sp.?										
<i>Senecio pinnatifolius</i>										
<i>Senna artemisioides</i> subsp. <i>artemisioides</i>			1							
<i>Senna artemisioides</i> subsp. <i>filifolia</i>		0.1								
<i>Senna artemisioides</i> subsp. <i>petiolaris</i>		1	3			0.1				
<i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>										1
<i>Sida ? arenicola</i>										
<i>Sida ? calyxhymenia</i>		1								
<i>Sida ?atrovirens</i>										
<i>Sida fibulifera</i>										
<i>Sida</i> sp.										

Appendix I Phase 1 Species x site matrix

Species	s01	s02	s03	s05	s06	s07	s09	s10	s100	s101
Sida spodochroma										
Solanum ? ellipticum										
Solanum ? lasiophyllum										
Solanum centrale										
Solanum ellipticum										
Solanum lasiophyllum	0.1									
Solanum orbiculatum										
Solanum orbiculatum subsp. orbiculatum										
Solanum plicatile				0.1	0.1	1			1	
Solanum sp.										
Spartothamnella teucriflora										
Spergularia rubra										
Stackhousia sp.?										0.1
Swainsona ?formosa										
Swainsona phacoides										
Swainsona sp.										
Themeda triandra										
Thryptomene biseriata										0.1
Thyridolepis multiculmis										
Triodia ? basedowii										
Triodia ? schinzii			0.1							
Triodia basedowii	3		2	2	3	2	3	3	3	2
Triodia desertorum										2
Triodia mollis										
Triodia sp.										
Tripogon loliiformis										
Triraphis mollis										
Urochloa piligera?				0.1						
Velleia glabrata										
Velleia hispida										
Vittadinia eremaea										
Vittadinia sp.?										
Westringia rigida										
Zygophyllum ? eremaeum										
Zygophyllum ? glaucum										
Zygophyllum apiculatum										
Zygophyllum aurantiacum										
Zygophyllum eremaeum		0.1								

Appendix I Phase 1 Species x site matrix

Species	s01	s02	s03	s05	s06	s07	s09	s10	s100	s101
Zygophyllum sp.										

Appendix I Phase 1 Species x site matrix

Species	s102	s103	s104	s105	s106	s107	s108	s109	s11	s110
? Daviesia sp.										
?Isotoma sp.										
Abutilon ? oxycarpum										
Abutilon otocarpum										
Acacia ? sibina										
Acacia acanthoclada subsp. acanthoclada									1	
Acacia aneura										
Acacia aneura var. ? intermedia										
Acacia aneura var. aneura										
Acacia aneura var. argentea		0.1				1				
Acacia aneura var. intermedia							1			
Acacia aneura var. tenuis										
Acacia burkittii										
Acacia colletioides		0.1								
Acacia desertorum var. desertorum	3									
Acacia eremophila numerous-nerved variant (A										
Acacia helmsiana										
Acacia jamesiana								0.1		2
Acacia ligulata							1	1		
Acacia murrayana										
Acacia oswaldii										
Acacia prainii		0.1								
Acacia quadrimarginea										
Acacia ramulosa var. linophylla										
Acacia ramulosa var. ramulosa						1				
Acacia rigens										
Acacia sibirica										
Acacia tetragonophylla										
Adriana urticoides var. hookeri										
Alectryon oleifolius subsp. canescens										
Aluta maisonneuvei subsp. auriculata						3	4			
Alyogyne pinoniana										
Alyxia buxifolia			2	1				1		
Amphipogon caricinus										
Amphipogon caricinus var. caricinus										
Amyema fitzgeraldii										
Amyema miquelii			0.1							
Anthobolus leptomerioides										

Appendix I Phase 1 Species x site matrix

Species	s102	s103	s104	s105	s106	s107	s108	s109	s11	s110
<i>Anthotroche pannosa</i>				1	1		2		2	0.1
<i>Aristida contorta</i>										
<i>Aristida holathera</i> var. <i>holathera</i>										
<i>Aristida</i> sp.										
<i>Atriplex</i> ? <i>vesicaria</i>										
<i>Atriplex nummularia</i>										
<i>Atriplex</i> sp.										
<i>Atriplex vesicaria</i>										
<i>Austrostipa</i> ? <i>nitida</i>										
<i>Austrostipa elegantissima</i>										
<i>Austrostipa platychaeta</i>										
<i>Austrostipa</i> sp.										
<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 C					1					1
<i>Bertya dimerostigma</i>							1	2		
<i>Boerhavia coccinea</i> ?										
<i>Boerhavia</i> sp.?										
<i>Brachyscome</i> sp.										
<i>Brunonia australis</i>										
<i>Bulbostylis barbata</i>										
<i>Calandrinia balonensis</i>										
<i>Callitris</i> ? <i>columellaris</i>										
<i>Callitris columellaris</i>				3	1		1	2		
<i>Callitris</i> sp.		4								
<i>Casuarina pauper</i>										
<i>Caustis dioica</i>										
<i>Centaurium spicatum</i>										
<i>Centrolepis eremica</i>										
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>										
<i>Chenopodium desertorum</i>										
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>										
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>										
<i>Chenopodium gaudichaudianum</i>										
<i>Chenopodium melanocarpum</i> forma <i>melanocar</i>										
<i>Chenopodium</i> sp.										
<i>Chrysocephalum apiculatum</i>										
<i>Chrysocephalum eremaeum</i> ?										
<i>Chrysocephalum puteale</i>									1	
<i>Codonocarpus cotinifolius</i>	1									

Appendix I Phase 1 Species x site matrix

Species	s102	s103	s104	s105	s106	s107	s108	s109	s11	s110
<i>Commersonia melanopetala</i>	1						1			
<i>Convolvulus remotus?</i>										
<i>Cratystylis subspinescens</i>										
<i>Dampiera dentata</i>										
<i>Dampiera ramosa</i>										0.1
<i>Dampiera tomentosa</i>										1
<i>Daviesia grahamii</i>							2		1	
<i>Dicrastylis brunnea</i>	1									
<i>Dicrastylis nicholasii</i>										
<i>Dicrastylis</i> sp. Cundeelee (D.J. Pearson 101)										
<i>Dodonaea adenophora</i>										
<i>Dodonaea lobulata</i>										
<i>Dodonaea rigida</i>										
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>			1	2					1	
<i>Duboisia hopwoodii</i>										
<i>Dysphania kalpari</i>										
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostach</i>										
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>										
<i>Enneapogon caerulescens</i>										
<i>Enneapogon cylindricus</i>										
<i>Enneapogon polyphyllus</i>										
<i>Enneapogon</i> sp.										
<i>Eragrostis ? falcata</i>										
<i>Eragrostis dielsii</i>										
<i>Eragrostis eriopoda</i>										
<i>Eragrostis pergracilis</i>										
<i>Eragrostis setifolia</i>										
<i>Eragrostis</i> sp.										
<i>Eragrostis xerophila</i>										
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>			1							
<i>Eremophila forrestii</i>										
<i>Eremophila georgei</i>										
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>										
<i>Eremophila latrobei</i>										
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>										
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>									2	
<i>Eremophila longifolia</i>										
<i>Eremophila miniata</i>										

Appendix I Phase 1 Species x site matrix

Species	s102	s103	s104	s105	s106	s107	s108	s109	s11	s110
Eremophila oppositifolia										
Eremophila paisleyi subsp. paisleyi			2							
Eremophila platycalyx subsp. platycalyx										
Eremophila platythamnos subsp. platythamnos										
Eremophila punctata										
Eremophila scoparia										
Eremophila serrulata										
Eriachne helmsii				0.1						
Eriachne mucronata (desert form)										
Eriachne pulchella subsp. pulchella										
Eriachne sp.										
Eriochloa sp.										
Erodium sp.										
Eucalyptus ? carnei										
Eucalyptus ? leptopoda										
Eucalyptus ? leptophylla										
Eucalyptus ? trivalvis										
Eucalyptus concinna										
Eucalyptus effusa										
Eucalyptus gamophylla		2								
Eucalyptus gongylocarpa			3	2				1	0.1	
Eucalyptus horistes								3		
Eucalyptus leptopoda subsp. elevata	2									
Eucalyptus oldfieldii										
Eucalyptus oleosa subsp. oleosa							1			
Eucalyptus trivalvis										
Eucalyptus youngiana						2	1			
Euphorbia ? drummondii										
Euphorbia drummondii										
Euphorbia sp.										
Euphorbiaceae sp.?										
Frankenia ?fecunda										
Frankenia fecunda										
Glischrocaryon aureum var. aureum										
Goodenia ? triodiophila										
Goodenia elderi								1		
Goodenia occidentalis										
Goodenia quasilibera										

Appendix I Phase 1 Species x site matrix

Species	s102	s103	s104	s105	s106	s107	s108	s109	s11	s110
Goodenia ramelii										
Goodenia scaevolina										
Goodenia xanthosperma										
Grevillea ?juncifolia										
Grevillea acacioides										2
Grevillea juncifolia										
Grevillea juncifolia subsp. temulenta	1				1					
Grevillea nematophylla										
Grevillea nematophylla subsp. planicosta										
Grevillea secunda										
Grevillea stenobotrya							2		0.1	
Gyrostemon ? ramulosus										
Gyrostemon ramulosus										
Gyrostemon sp.										
Hakea francisiana	1							0.1		
Hakea lorea ssp. lorea										
Halgania cyanea var. Allambi Stn (B.W. Strong)	1	0.1						2		
Haloragis trigonocarpa										
Halosarcia ? aff. undulata										
Hannafordia bissillii subsp. bissillii										
Hannafordia quadrivalvis subsp. quadrivalvis							2			
Jacksonia arida										3
Jasminum didymum subsp. lineare			1							
Jasminum sp.										
Kennedia prorepens										
Keraudrenia velutina										
Keraudrenia velutina subsp. elliptica										
Lawrencia ? glomerata										
Lawrencia sp.?										
Lechenaultia striata										
Lepidium sp.?										
Lepidobolus deserti										2
Leptosema chambersii	3									
Leptospermum fastigiatum										
Lomandra leucocephala subsp. robusta							2		1	
Lysiana ? murrayi										
Lysiana murrayi										
Maireana ? tomentosa										

Appendix I Phase 1 Species x site matrix

Species	s102	s103	s104	s105	s106	s107	s108	s109	s11	s110
Maireana ?villosa										
Maireana georgei								1		
Maireana integra										
Maireana sedifolia										
Maireana sp.										
Maireana tomentosa										
Maireana triptera										
Maireana villosa										
Marsdenia australis										
Melaleuca interioris										
Melaleuca leiocarpa										
Microcorys macrediana										
Micromyrtus stenocalyx							1			
Minuria tridens										
Monachather paradoxus										
Monotaxis luteiflora										
Myoporum platycarpum										
Newcastelia hexarrhena										
Nicotiana sp.										
Olearia arida										
Olearia decurrens										
Olearia exiguifolia										
Olearia muelleri										
Olearia subspicata										
Paspalidium basicladium										
Paspalidium clementii										
Paspalidium sp.										
Petalostylis cassioides	1									
Pimelea microcephala subsp. microcephala			1							
Pittosporum angustifolium										
Pityrodia loricata									2	
Poaceae sp.										
Podolepis capillaris										
Pomax sp. desert (A.S. George 11968)										
Prostanthera ? althoferi				1						
Prostanthera ? sericea										
Prostanthera althoferi subsp. althoferi										
Prostanthera sericea										

Appendix I Phase 1 Species x site matrix

Species	s102	s103	s104	s105	s106	s107	s108	s109	s11	s110
<i>Psydrax rigidula</i>										
<i>Psydrax suaveolens</i>										
<i>Ptilotus drummondii</i>								0.1		
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>										
<i>Ptilotus exaltatus</i> var. <i>villosus</i>										
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>										
<i>Ptilotus obovatus</i>										
<i>Ptilotus obovatus</i> var. <i>obovatus</i>										
<i>Ptilotus polystachyus</i>										
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>										
<i>Ptilotus</i> sp.										
<i>Ptilotus</i> sp. 2										
<i>Rhagodia ?eremaea</i>										
<i>Rhagodia eremaea</i>										
<i>Rhodanthe floribunda</i>										
<i>Rhyncharrhena linearis</i>										
<i>Salicornia australis</i>										
<i>Santalum acuminatum</i>										
<i>Santalum spicatum</i>										
<i>Scaevola basedowii</i>					1			2	1	1
<i>Scaevola parvifolia</i>										
<i>Scaevola spinescens</i>								1		
<i>Sclerolaena convexula</i>										
<i>Sclerolaena diacantha</i>										
<i>Sclerolaena eriacantha</i>										
<i>Sclerolaena fimbriolata</i>										
<i>Sclerolaena patenticuspis</i>										
Scrophulariaceae sp.?										
<i>Senecio pinnatifolius</i>										
<i>Senna artemisioides</i> subsp. <i>artemisioides</i>										
<i>Senna artemisioides</i> subsp. <i>filifolia</i>										
<i>Senna artemisioides</i> subsp. <i>petiolaris</i>			0.1	1						
<i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>	1									
<i>Sida ? arenicola</i>										
<i>Sida ? calyxhymenia</i>										
<i>Sida ?atrovirens</i>										
<i>Sida fibulifera</i>										
<i>Sida</i> sp.										

Appendix I Phase 1 Species x site matrix

Species	s102	s103	s104	s105	s106	s107	s108	s109	s11	s110
Sida spodochroma										
Solanum ? ellipticum										
Solanum ? lasiophyllum										
Solanum centrale										
Solanum ellipticum										
Solanum lasiophyllum										
Solanum orbiculatum										
Solanum orbiculatum subsp. orbiculatum										
Solanum plicatile				1						
Solanum sp.										
Spartothamnella teucriflora										
Spergularia rubra										
Stackhousia sp.?										
Swainsona ?formosa										
Swainsona phacoides										
Swainsona sp.										
Themeda triandra										
Thryptomene biseriata					3	3		2		2
Thyridolepis multiculmis									1	
Triodia ? basedowii										
Triodia ? schinzii										
Triodia basedowii				1						
Triodia desertorum		4	3		3	2	3	3	3	2
Triodia mollis										
Triodia sp.										
Tripogon loliiformis										
Triraphis mollis										
Urochloa piligera?										
Velleia glabrata										
Velleia hispida										
Vittadinia eremaea										
Vittadinia sp.?										
Westringia rigida					0.1				1	
Zygophyllum ? eremaeum										
Zygophyllum ? glaucum										
Zygophyllum apiculatum										
Zygophyllum aurantiacum										
Zygophyllum eremaeum										

Appendix I Phase 1 Species x site matrix

Species	s102	s103	s104	s105	s106	s107	s108	s109	s11	s110
Zygophyllum sp.										

Appendix I Phase 1 Species x site matrix

Species	s111	s112	s113	s114	s115	s116	s117	s118	s119	s12
? Daviesia sp.										
?Isotoma sp.										
Abutilon ? oxycarpum								1		
Abutilon otocarpum										
Acacia ? sibina										
Acacia acanthoclada subsp. acanthoclada										
Acacia aneura										
Acacia aneura var. ? intermedia										
Acacia aneura var. aneura	1		3						3	
Acacia aneura var. argentea	1	3				3			3	
Acacia aneura var. intermedia		3				3			3	
Acacia aneura var. tenuis										
Acacia burkittii								3		
Acacia colletioides										
Acacia desertorum var. desertorum										
Acacia eremophila numerous-nerved variant (A										
Acacia helmsiana										
Acacia jamesiana										1
Acacia ligulata										
Acacia murrayana										
Acacia oswaldii									0.1	
Acacia prainii										
Acacia quadrimarginea	2	2	4	3						
Acacia ramulosa var. linophylla										
Acacia ramulosa var. ramulosa										
Acacia rigens										
Acacia sibirica	0.1							1		2
Acacia tetragonophylla						1		1		
Adriana urticoides var. hookeri										
Alectryon oleifolius subsp. canescens										
Aluta maisonneuvei subsp. auriculata										
Alyogyne pinoniana										
Alyxia buxifolia										
Amphipogon caricinus										
Amphipogon caricinus var. caricinus										
Amyema fitzgeraldii							1			
Amyema miquelii										
Anthobolus leptomerioides										

Appendix I Phase 1 Species x site matrix

Species	s111	s112	s113	s114	s115	s116	s117	s118	s119	s12
<i>Anthotroche pannosa</i>										3
<i>Aristida contorta</i>		0.1			0.5	0.5		0.5	0.5	2
<i>Aristida holathera</i> var. <i>holathera</i>										0.1
<i>Aristida</i> sp.										
<i>Atriplex</i> ? <i>vesicaria</i>										
<i>Atriplex nummularia</i>										
<i>Atriplex</i> sp.										
<i>Atriplex vesicaria</i>										
<i>Austrostipa</i> ? <i>nitida</i>										
<i>Austrostipa elegantissima</i>										
<i>Austrostipa platychaeta</i>					0.1		0.1	1		
<i>Austrostipa</i> sp.			2							
<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 C										
<i>Bertya dimerostigma</i>										
<i>Boerhavia coccinea</i> ?			0.1							
<i>Boerhavia</i> sp.?				0.5						
<i>Brachyscome</i> sp.							0.1			
<i>Brunonia australis</i>									0.1	
<i>Bulbostylis barbata</i>										
<i>Calandrinia balonensis</i>	0.1									
<i>Callitris</i> ? <i>columellaris</i>										
<i>Callitris columellaris</i>										1
<i>Callitris</i> sp.										
<i>Casuarina pauper</i>					0.1		3	3		
<i>Caustis dioica</i>										
<i>Centaurium spicatum</i>										
<i>Centrolepis eremica</i>										
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1	0.1	0.1		0.5				
<i>Chenopodium desertorum</i>							0.1			
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>										
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>										
<i>Chenopodium gaudichaudianum</i>						1				
<i>Chenopodium melanocarpum</i> forma <i>melanocar</i>				0.5		0.5				
<i>Chenopodium</i> sp.									0.1	
<i>Chrysocephalum apiculatum</i>										
<i>Chrysocephalum eremaeum</i> ?			0.1							
<i>Chrysocephalum puteale</i>						1				
<i>Codonocarpus cotinifolius</i>										

Appendix I Phase 1 Species x site matrix

Species	s111	s112	s113	s114	s115	s116	s117	s118	s119	s12
<i>Commersonia melanopetala</i>										
<i>Convolvulus remotus?</i>								0.1		
<i>Cratystylis subspinescens</i>										
<i>Dampiera dentata</i>										
<i>Dampiera ramosa</i>										
<i>Dampiera tomentosa</i>										
<i>Daviesia grahamii</i>										
<i>Dicrastylis brunnea</i>										
<i>Dicrastylis nicholasii</i>										
<i>Dicrastylis</i> sp. Cundeelee (D.J. Pearson 101)										
<i>Dodonaea adenophora</i>										
<i>Dodonaea lobulata</i>						2		1		
<i>Dodonaea rigida</i>	1	3		1						
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>										1
<i>Duboisia hopwoodii</i>										
<i>Dysphania kalpari</i>										
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostach</i>										
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>										
<i>Enneapogon caerulescens</i>					0.5		0.5			
<i>Enneapogon cylindricus</i>							0.5			
<i>Enneapogon polyphyllus</i>						2		2	0.5	
<i>Enneapogon</i> sp.						2			0.5	
<i>Eragrostis ? falcata</i>										
<i>Eragrostis dielsii</i>										
<i>Eragrostis eriopoda</i>	0.1	1							0.5	0.1
<i>Eragrostis pergracilis</i>	0.5		0.5	2		2				
<i>Eragrostis setifolia</i>									0.5	
<i>Eragrostis</i> sp.	0.1									
<i>Eragrostis xerophila</i>										
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>										1
<i>Eremophila forrestii</i>										
<i>Eremophila georgei</i>		1			0.1			1	1	
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>										
<i>Eremophila latrobei</i>										
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>										
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	1	3		1		3				
<i>Eremophila longifolia</i>										
<i>Eremophila miniata</i>										

Appendix I Phase 1 Species x site matrix

Species	s111	s112	s113	s114	s115	s116	s117	s118	s119	s12
Eremophila oppositifolia										
Eremophila paisleyi subsp. paisleyi										
Eremophila platycalyx subsp. platycalyx										
Eremophila platythamnos subsp. platythamnos										
Eremophila punctata										
Eremophila scoparia						2		2		
Eremophila serrulata										
Eriachne helmsii	0.1							0.1		
Eriachne mucronata (desert form)	0.1	1					1			
Eriachne pulchella subsp. pulchella	0.5									
Eriachne sp.								0.5		
Eriochloa sp.								0.1	2	0.5
Erodium sp.							0.5			
Eucalyptus ? carnei										
Eucalyptus ? leptopoda										
Eucalyptus ? leptophylla										
Eucalyptus ? trivalvis										
Eucalyptus concinna										
Eucalyptus effusa										
Eucalyptus gamophylla										
Eucalyptus gongylocarpa										
Eucalyptus horistes										
Eucalyptus leptopoda subsp. elevata										
Eucalyptus oldfieldii										
Eucalyptus oleosa subsp. oleosa										
Eucalyptus trivalvis										
Eucalyptus youngiana										2
Euphorbia ? drummondii									0.1	
Euphorbia drummondii								0.1		
Euphorbia sp.							0.1			
Euphorbiaceae sp.?										
Frankenia ?fecunda										
Frankenia fecunda									2	
Glischrocaryon aureum var. aureum										
Goodenia ? triodiophila										
Goodenia elderi										
Goodenia occidentalis	0.1									
Goodenia quasilibera										

Appendix I Phase 1 Species x site matrix

Species	s111	s112	s113	s114	s115	s116	s117	s118	s119	s12
Goodenia ramelii										
Goodenia scaevolina										
Goodenia xanthosperma										
Grevillea ?juncifolia										
Grevillea acacioides										
Grevillea juncifolia										
Grevillea juncifolia subsp. temulenta										
Grevillea nematophylla										
Grevillea nematophylla subsp. planicosta										
Grevillea secunda										
Grevillea stenobotrya										
Gyrostemon ? ramulosus										
Gyrostemon ramulosus										
Gyrostemon sp.										
Hakea francisiana										
Hakea lorea ssp. lorea										
Halgania cyanea var. Allambi Stn (B.W. Strong)										
Haloragis trigonocarpa										
Halosarcia ? aff. undulata										
Hannafordia bissillii subsp. bissillii										
Hannafordia quadrivalvis subsp. quadrivalvis										
Jacksonia arida										
Jasminum didymum subsp. lineare										
Jasminum sp.				1						
Kennedia prorepens										
Keraudrenia velutina										
Keraudrenia velutina subsp. elliptica										
Lawrencia ? glomerata										
Lawrencia sp.?										
Lechenaultia striata										
Lepidium sp.?										
Lepidobolus deserti										
Leptosema chambersii										
Leptospermum fastigiatum										1
Lomandra leucocephala subsp. robusta										2
Lysiana ? murrayi							1			
Lysiana murrayi										
Maireana ? tomentosa									1	

Appendix I Phase 1 Species x site matrix

Species	s111	s112	s113	s114	s115	s116	s117	s118	s119	s12
Maireana ?villosa										
Maireana georgei										
Maireana integra										
Maireana sedifolia						2	3	3		
Maireana sp.							1		0.1	
Maireana tomentosa							2		1	
Maireana triptera									0.1	
Maireana villosa				1				1		
Marsdenia australis				1	0.1	0.1		0.1	0.1	
Melaleuca interioris										
Melaleuca leiocarpa										
Microcorys macrediana										
Micromyrtus stenocalyx										
Minuria tridens										
Monachather paradoxus										2
Monotaxis luteiflora										
Myoporum platycarpum										
Newcastelia hexarrhena										
Nicotiana sp.							0.5			
Olearia arida										
Olearia decurrens										
Olearia exiguifolia										
Olearia muelleri						1	0.1			
Olearia subspicata										
Paspalidium basicladium										
Paspalidium clementii										
Paspalidium sp.										
Petalostylis cassioides										
Pimelea microcephala subsp. microcephala										
Pittosporum angustifolium				1						
Pityrodia loricata										2
Poaceae sp.						0.5	2		0.1	0.1
Podolepis capillaris										
Pomax sp. desert (A.S. George 11968)										
Prostanthera ? althoferi										
Prostanthera ? sericea										
Prostanthera althoferi subsp. althoferi										
Prostanthera sericea										

Appendix I Phase 1 Species x site matrix

Species	s111	s112	s113	s114	s115	s116	s117	s118	s119	s12
<i>Psydrax rigidula</i>										
<i>Psydrax suaveolens</i>		1								
<i>Ptilotus drummondii</i>										
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>										
<i>Ptilotus exaltatus</i> var. <i>villosus</i>									0.1	
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>										
<i>Ptilotus obovatus</i>										
<i>Ptilotus obovatus</i> var. <i>obovatus</i>			3	2	2	2	2	2	2	
<i>Ptilotus polystachyus</i>										
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>										
<i>Ptilotus</i> sp.								1		
<i>Ptilotus</i> sp. 2								0.1		
<i>Rhagodia ?eremaea</i>										
<i>Rhagodia eremaea</i>						1		1	1	
<i>Rhodanthe floribunda</i>										
<i>Rhyncharrhena linearis</i>									0.1	
<i>Salicornia australis</i>									0.1	0.1
<i>Santalum acuminatum</i>										
<i>Santalum spicatum</i>	0.1							1		
<i>Scaevola basedowii</i>										1
<i>Scaevola parvifolia</i>										
<i>Scaevola spinescens</i>					2					
<i>Sclerolaena convexula</i>										
<i>Sclerolaena diacantha</i>						0.5	0.1		0.5	
<i>Sclerolaena eriacantha</i>										
<i>Sclerolaena fimbriolata</i>									0.1	
<i>Sclerolaena patenticuspis</i>										
Scrophulariaceae sp.?			0.1							
<i>Senecio pinnatifolius</i>										
<i>Senna artemisioides</i> subsp. <i>artemisioides</i>			1	2		1				
<i>Senna artemisioides</i> subsp. <i>filifolia</i>					2					
<i>Senna artemisioides</i> subsp. <i>petiolaris</i>					0.1		1	2	1	
<i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>										
<i>Sida ? arenicola</i>						2				
<i>Sida ? calyxhymenia</i>	1	2	1	2	1			2	1	
<i>Sida ? atrovirens</i>							0.1			
<i>Sida fibulifera</i>							2			
<i>Sida</i> sp.							1			

Appendix I Phase 1 Species x site matrix

Species	s111	s112	s113	s114	s115	s116	s117	s118	s119	s12
Sida spodochroma						1				
Solanum ? ellipticum	0.1									
Solanum ? lasiophyllum										
Solanum centrale						1	0.1			
Solanum ellipticum			0.1							
Solanum lasiophyllum	0.1				0.1	1	0.1		0.1	
Solanum orbiculatum	0.1									
Solanum orbiculatum subsp. orbiculatum										
Solanum plicatile										
Solanum sp.										
Spartothamnella teucriflora						1			1	1
Spergularia rubra										
Stackhousia sp.?										
Swainsona ?formosa										
Swainsona phacoides										
Swainsona sp.										
Themeda triandra								1		
Thryptomene biseriata										
Thyridolepis multiculmis										
Triodia ? basedowii	0.1									
Triodia ? schinzii										
Triodia basedowii		2								
Triodia desertorum										3
Triodia mollis										
Triodia sp.										
Tripogon loliiformis										
Triraphis mollis										
Urochloa piligera?										
Velleia glabrata										
Velleia hispida										
Vittadinia eremaea										
Vittadinia sp.?										
Westringia rigida										
Zygophyllum ? eremaeum					0.1					
Zygophyllum ? glaucum										
Zygophyllum apiculatum										
Zygophyllum aurantiacum										
Zygophyllum eremaeum									3	

Appendix I Phase 1 Species x site matrix

Species	s111	s112	s113	s114	s115	s116	s117	s118	s119	s12
Zygophyllum sp.										

Appendix I Phase 1 Species x site matrix

Species	s120	s121	s122	s123	s124	s125	s126	s127	s128	s129
? Daviesia sp.										
?Isotoma sp.										
Abutilon ? oxycarpum										
Abutilon otocarpum										1
Acacia ? sibina										
Acacia acanthoclada subsp. acanthoclada										
Acacia aneura										
Acacia aneura var. ? intermedia										
Acacia aneura var. aneura										0.1
Acacia aneura var. argentea	2									
Acacia aneura var. intermedia						3				
Acacia aneura var. tenuis										
Acacia burkittii				2		1			1	
Acacia colletioides										
Acacia desertorum var. desertorum							1			
Acacia eremophila numerous-nerved variant (A										
Acacia helmsiana										
Acacia jamesiana										
Acacia ligulata									1	
Acacia murrayana										
Acacia oswaldii						0.1				
Acacia prainii										
Acacia quadrimarginea										
Acacia ramulosa var. linophylla										
Acacia ramulosa var. ramulosa						1				
Acacia rigens										
Acacia sibirica										
Acacia tetragonophylla							1			
Adriana urticoides var. hookeri										
Alectryon oleifolius subsp. canescens				0.1						
Aluta maisonneuvei subsp. auriculata										
Alyogyne pinoniana										
Alyxia buxifolia										
Amphipogon caricinus							0.1			
Amphipogon caricinus var. caricinus									2	
Amyema fitzgeraldii										
Amyema miquelii										
Anthobolus leptomerioides										

Appendix I Phase 1 Species x site matrix

Species	s120	s121	s122	s123	s124	s125	s126	s127	s128	s129
<i>Anthotroche pannosa</i>							2			
<i>Aristida contorta</i>				0.1	0.1	0.1		0.5	0.1	3
<i>Aristida holathera</i> var. <i>holathera</i>									2	2
<i>Aristida</i> sp.										
<i>Atriplex</i> ? <i>vesicaria</i>		3								
<i>Atriplex nummularia</i>			1							
<i>Atriplex</i> sp.										
<i>Atriplex vesicaria</i>										
<i>Austrostipa</i> ? <i>nitida</i>										
<i>Austrostipa elegantissima</i>			0.1							
<i>Austrostipa platychaeta</i>			1							
<i>Austrostipa</i> sp.						0.1				
<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 C										
<i>Bertya dimerostigma</i>							1		1	
<i>Boerhavia coccinea</i> ?										
<i>Boerhavia</i> sp.?										
<i>Brachyscome</i> sp.										
<i>Brunonia australis</i>										
<i>Bulbostylis barbata</i>								0.5		
<i>Calandrinia balonensis</i>										
<i>Callitris</i> ? <i>columellaris</i>										
<i>Callitris columellaris</i>							1			
<i>Callitris</i> sp.										
<i>Casuarina pauper</i>										
<i>Caustis dioica</i>										
<i>Centaurium spicatum</i>								0.1		
<i>Centrolepis eremica</i>								0.5		
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>										
<i>Chenopodium desertorum</i>										
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>										
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>				1						
<i>Chenopodium gaudichaudianum</i>					1					
<i>Chenopodium melanocarpum</i> forma <i>melanocar</i>										
<i>Chenopodium</i> sp.										
<i>Chrysocephalum apiculatum</i>										
<i>Chrysocephalum eremaeum</i> ?										
<i>Chrysocephalum puteale</i>	1									
<i>Codonocarpus cotinifolius</i>							1			

Appendix I Phase 1 Species x site matrix

Species	s120	s121	s122	s123	s124	s125	s126	s127	s128	s129
<i>Commersonia melanopetala</i>							1			
<i>Convolvulus remotus?</i>										
<i>Cratystylis subspinescens</i>										
<i>Dampiera dentata</i>										
<i>Dampiera ramosa</i>										
<i>Dampiera tomentosa</i>										
<i>Daviesia grahamii</i>										
<i>Dicrastylis brunnea</i>									3	
<i>Dicrastylis nicholasii</i>							3		2	
<i>Dicrastylis</i> sp. Cundeelee (D.J. Pearson 101)							3			
<i>Dodonaea adenophora</i>										
<i>Dodonaea lobulata</i>										
<i>Dodonaea rigida</i>										
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>										
<i>Duboisia hopwoodii</i>									1	
<i>Dysphania kalpari</i>		0.5								
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostach</i>										
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>										0.1
<i>Enneapogon caerulescens</i>								0.5		
<i>Enneapogon cylindricus</i>										
<i>Enneapogon polyphyllus</i>					1					
<i>Enneapogon</i> sp.										
<i>Eragrostis ? falcata</i>										
<i>Eragrostis dielsii</i>										
<i>Eragrostis eriopoda</i>								0.5	2	0.5
<i>Eragrostis pergracilis</i>		0.5						3		
<i>Eragrostis setifolia</i>										
<i>Eragrostis</i> sp.										
<i>Eragrostis xerophila</i>										
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>				1					1	
<i>Eremophila forrestii</i>										
<i>Eremophila georgei</i>										
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>	2									
<i>Eremophila latrobei</i>										
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>					2					
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>										
<i>Eremophila longifolia</i>										
<i>Eremophila miniata</i>										

Appendix I Phase 1 Species x site matrix

Species	s120	s121	s122	s123	s124	s125	s126	s127	s128	s129
Eremophila oppositifolia										
Eremophila paisleyi subsp. paisleyi										
Eremophila platycalyx subsp. platycalyx									1	
Eremophila platythamnos subsp. platythamnos										
Eremophila punctata										
Eremophila scoparia										
Eremophila serrulata										
Eriachne helmsii						2			2	
Eriachne mucronata (desert form)										
Eriachne pulchella subsp. pulchella										
Eriachne sp.										
Eriochloa sp.										
Erodium sp.										
Eucalyptus ? carnei									3	
Eucalyptus ? leptopoda										
Eucalyptus ? leptophylla										
Eucalyptus ? trivalvis										
Eucalyptus concinna							0.1			
Eucalyptus effusa										
Eucalyptus gamophylla										
Eucalyptus gongylocarpa						2		1		
Eucalyptus horistes				3	3					
Eucalyptus leptopoda subsp. elevata										
Eucalyptus oldfieldii										
Eucalyptus oleosa subsp. oleosa										
Eucalyptus trivalvis						2				
Eucalyptus youngiana										
Euphorbia ? drummondii										
Euphorbia drummondii		0.1								0.1
Euphorbia sp.										
Euphorbiaceae sp.?										
Frankenia ?fecunda										
Frankenia fecunda			3						2	
Glischrocaryon aureum var. aureum										
Goodenia ? triodiophila										
Goodenia elderi										
Goodenia occidentalis										
Goodenia quasilibera										

Appendix I Phase 1 Species x site matrix

Species	s120	s121	s122	s123	s124	s125	s126	s127	s128	s129
Goodenia ramelii										
Goodenia scaevolina										
Goodenia xanthosperma										
Grevillea ?juncifolia										
Grevillea acacioides										
Grevillea juncifolia										
Grevillea juncifolia subsp. temulenta										
Grevillea nematophylla										
Grevillea nematophylla subsp. planicosta										
Grevillea secunda										
Grevillea stenobotrya										
Gyrostemon ? ramulosus										
Gyrostemon ramulosus										
Gyrostemon sp.										
Hakea francisiana										
Hakea lorea ssp. lorea										
Halgania cyanea var. Allambi Stn (B.W. Strong)										
Haloragis trigonocarpa										
Halosarcia ? aff. undulata								3		
Hannafordia bissillii subsp. bissillii										
Hannafordia quadrivalvis subsp. quadrivalvis										
Jacksonia arida										
Jasminum didymum subsp. lineare										
Jasminum sp.										
Kennedia prorepens										0.1
Keraudrenia velutina										
Keraudrenia velutina subsp. elliptica							1			
Lawrencia ? glomerata		0.1								
Lawrencia sp.?			0.5							
Lechenaultia striata										
Lepidium sp.?										
Lepidobolus deserti							1			
Leptosema chambersii										
Leptospermum fastigiatum										
Lomandra leucocephala subsp. robusta							2			
Lysiana ? murrayi										
Lysiana murrayi										
Maireana ? tomentosa						0.1				

Appendix I Phase 1 Species x site matrix

Species	s120	s121	s122	s123	s124	s125	s126	s127	s128	s129
Maireana ?villosa	1			0.1						
Maireana georgei										
Maireana integra						1				
Maireana sedifolia					1					
Maireana sp.						0.1				
Maireana tomentosa						1				
Maireana triptera						0.1				
Maireana villosa					1					
Marsdenia australis						0.1				
Melaleuca interioris										
Melaleuca leiocarpa										
Microcorys macrediana										
Micromyrtus stenocalyx										
Minuria tridens										0.1
Monachather paradoxus					1	0.1				2
Monotaxis luteiflora										
Myoporum platycarpum										
Newcastelia hexarrhena										
Nicotiana sp.										
Olearia arida										
Olearia decurrens										
Olearia exiguiifolia										
Olearia muelleri						1				
Olearia subspicata										
Paspalidium basicladium				0.1		0.1				
Paspalidium clementii										
Paspalidium sp.										
Petalostylis cassioides										
Pimelea microcephala subsp. microcephala										
Pittosporum angustifolium										
Pityrodia loricata							2			
Poaceae sp.										0.1
Podolepis capillaris										0.1
Pomax sp. desert (A.S. George 11968)										
Prostanthera ? althoferi										
Prostanthera ? sericea										
Prostanthera althoferi subsp. althoferi										
Prostanthera sericea										

Appendix I Phase 1 Species x site matrix

Species	s120	s121	s122	s123	s124	s125	s126	s127	s128	s129
<i>Psydrax rigidula</i>										
<i>Psydrax suaveolens</i>					1					
<i>Ptilotus drummondii</i>										
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>										
<i>Ptilotus exaltatus</i> var. <i>villosus</i>						0.1				
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>										
<i>Ptilotus obovatus</i>										
<i>Ptilotus obovatus</i> var. <i>obovatus</i>				1		2				
<i>Ptilotus polystachyus</i>										
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>					0.1					
<i>Ptilotus</i> sp.										
<i>Ptilotus</i> sp. 2										
<i>Rhagodia ?eremaea</i>			1							
<i>Rhagodia eremaea</i>					1					
<i>Rhodanthe floribunda</i>										
<i>Rhyncharrhena linearis</i>										
<i>Salicornia australis</i>										0.1
<i>Santalum acuminatum</i>										
<i>Santalum spicatum</i>										
<i>Scaevola basedowii</i>							1			
<i>Scaevola parvifolia</i>										
<i>Scaevola spinescens</i>						2				
<i>Sclerolaena convexula</i>	1									3
<i>Sclerolaena diacantha</i>										
<i>Sclerolaena eriacantha</i>			1	0.1						
<i>Sclerolaena fimbriolata</i>										
<i>Sclerolaena patenticuspis</i>										
Scrophulariaceae sp.?										
<i>Senecio pinnatifolius</i>								0.1		
<i>Senna artemisioides</i> subsp. <i>artemisioides</i>										
<i>Senna artemisioides</i> subsp. <i>filifolia</i>						3				
<i>Senna artemisioides</i> subsp. <i>petiolaris</i>			1	3	1					0.1
<i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>									1	
<i>Sida ? arenicola</i>										
<i>Sida ? calyxhymenia</i>										
<i>Sida ?atrovirens</i>										0.1
<i>Sida fibulifera</i>										
<i>Sida</i> sp.										

Appendix I Phase 1 Species x site matrix

Species	s120	s121	s122	s123	s124	s125	s126	s127	s128	s129
<i>Sida spodochroma</i>						0.1				
<i>Solanum ? ellipticum</i>										
<i>Solanum ? lasiophyllum</i>										
<i>Solanum centrale</i>										
<i>Solanum ellipticum</i>										
<i>Solanum lasiophyllum</i>	1				1					
<i>Solanum orbiculatum</i>										
<i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>										0.1
<i>Solanum plicatile</i>										0.1
<i>Solanum</i> sp.										
<i>Spartothamnella teucriflora</i>										
<i>Spergularia rubra</i>								0.5		
<i>Stackhousia</i> sp.?										
<i>Swainsona ?formosa</i>								0.1		
<i>Swainsona phacoides</i>										
<i>Swainsona</i> sp.		1								
<i>Themeda triandra</i>										
<i>Thryptomene biseriata</i>							1			
<i>Thyridolepis multiculmis</i>										
<i>Triodia ? basedowii</i>							2		1	
<i>Triodia ? schinzii</i>										
<i>Triodia basedowii</i>					3	1				
<i>Triodia desertorum</i>										
<i>Triodia mollis</i>								0.1		
<i>Triodia</i> sp.				4						
<i>Tripogon loliiformis</i>		0.1				0.1				
<i>Triraphis mollis</i>					0.1					
<i>Urochloa piligera?</i>				0.1						
<i>Velleia glabrata</i>										
<i>Velleia hispida</i>								0.1		
<i>Vittadinia eremaea</i>										0.1
<i>Vittadinia</i> sp.?										
<i>Westringia rigida</i>										
<i>Zygophyllum ? eremaeum</i>										
<i>Zygophyllum ? glaucum</i>			0.1							
<i>Zygophyllum apiculatum</i>										
<i>Zygophyllum aurantiacum</i>										
<i>Zygophyllum eremaeum</i>				1						

Appendix I Phase 1 Species x site matrix

Species	s120	s121	s122	s123	s124	s125	s126	s127	s128	s129
Zygophyllum sp.			1							

Appendix I Phase 1 Species x site matrix

Species	s13	s130	s131	s132	s133	s134	s135	s137	s139	s14 new
? Daviesia sp.										
?Isotoma sp.										
Abutilon ? oxycarpum										
Abutilon otocarpum										
Acacia ? sibina										
Acacia acanthoclada subsp. acanthoclada										
Acacia aneura										
Acacia aneura var. ? intermedia										
Acacia aneura var. aneura			0.1			1		2	1	
Acacia aneura var. argentea			1	1		1		2		
Acacia aneura var. intermedia										
Acacia aneura var. tenuis										
Acacia burkittii								1		
Acacia colletioides										
Acacia desertorum var. desertorum				1						
Acacia eremophila numerous-nerved variant (A										
Acacia helmsiana										
Acacia jamesiana		1			0.1					
Acacia ligulata	1						1			1
Acacia murrayana					0.1		2			
Acacia oswaldii						1				
Acacia prainii				1	1		1			
Acacia quadrimarginea										
Acacia ramulosa var. linophylla			1							
Acacia ramulosa var. ramulosa										
Acacia rigens										
Acacia sibirica						1				
Acacia tetragonophylla								1	0.1	
Adriana urticoides var. hookeri										
Alectryon oleifolius subsp. canescens						2				
Aluta maisonneuvei subsp. auriculata		1	1	1	1					
Alyogyne pinoniana	1						1			
Alyxia buxifolia										1
Amphipogon caricinus										
Amphipogon caricinus var. caricinus										
Amyema fitzgeraldii										
Amyema miquelii										
Anthobolus leptomerioides										

Appendix I Phase 1 Species x site matrix

Species	s13	s130	s131	s132	s133	s134	s135	s137	s139	s14 new
<i>Anthotroche pannosa</i>	3						2			
<i>Aristida contorta</i>								0.1		
<i>Aristida holathera</i> var. <i>holathera</i>							0.1			
<i>Aristida</i> sp.										
<i>Atriplex</i> ? <i>vesicaria</i>									2	
<i>Atriplex nummularia</i>										
<i>Atriplex</i> sp.										
<i>Atriplex vesicaria</i>										
<i>Austrostipa</i> ? <i>nitida</i>										
<i>Austrostipa elegantissima</i>										
<i>Austrostipa platychaeta</i>										
<i>Austrostipa</i> sp.										
<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 C)		2								
<i>Bertya dimerostigma</i>		2			1					3
<i>Boerhavia coccinea</i> ?										
<i>Boerhavia</i> sp.?										
<i>Brachyscome</i> sp.										
<i>Brunonia australis</i>										
<i>Bulbostylis barbata</i>										
<i>Calandrinia balonensis</i>										
<i>Callitris</i> ? <i>columellaris</i>										
<i>Callitris columellaris</i>							1			3
<i>Callitris</i> sp.					1					
<i>Casuarina pauper</i>									0.1	
<i>Caustis dioica</i>										
<i>Centaurium spicatum</i>										
<i>Centrolepis eremica</i>										
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>										
<i>Chenopodium desertorum</i>										
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>										
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>										
<i>Chenopodium gaudichaudianum</i>										
<i>Chenopodium melanocarpum</i> forma <i>melanocar</i>										
<i>Chenopodium</i> sp.										
<i>Chrysocephalum apiculatum</i>					0.1					
<i>Chrysocephalum eremaeum</i> ?										
<i>Chrysocephalum puteale</i>										
<i>Codonocarpus cotinifolius</i>										

Appendix I Phase 1 Species x site matrix

Species	s13	s130	s131	s132	s133	s134	s135	s137	s139	s14 new
<i>Commersonia melanopetala</i>							1			
<i>Convolvulus remotus?</i>										
<i>Cratystylis subspinescens</i>										
<i>Dampiera dentata</i>										
<i>Dampiera ramosa</i>										
<i>Dampiera tomentosa</i>										
<i>Daviesia grahamii</i>										
<i>Dicrastylis brunnea</i>								0.1		
<i>Dicrastylis nicholasii</i>				2						
<i>Dicrastylis</i> sp. Cundeelee (D.J. Pearson 101)										
<i>Dodonaea adenophora</i>										
<i>Dodonaea lobulata</i>									1	
<i>Dodonaea rigida</i>										
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>							1			2
<i>Duboisia hopwoodii</i>		1								
<i>Dysphania kalpari</i>										
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostach</i>										
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>										
<i>Enneapogon caerulescens</i>									0.5	
<i>Enneapogon cylindricus</i>										
<i>Enneapogon polyphyllus</i>								0.1		
<i>Enneapogon</i> sp.										
<i>Eragrostis ? falcata</i>										
<i>Eragrostis dielsii</i>										
<i>Eragrostis eriopoda</i>			0.5					0.1		
<i>Eragrostis pergracilis</i>										
<i>Eragrostis setifolia</i>										
<i>Eragrostis</i> sp.										
<i>Eragrostis xerophila</i>										
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>						1				1
<i>Eremophila forrestii</i>			0.1							
<i>Eremophila georgei</i>										
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>										
<i>Eremophila latrobei</i>										
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>			0.1					0.1		
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>						1				
<i>Eremophila longifolia</i>										
<i>Eremophila miniata</i>										

Appendix I Phase 1 Species x site matrix

Species	s13	s130	s131	s132	s133	s134	s135	s137	s139	s14 new
<i>Eremophila oppositifolia</i>									0.1	1
<i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>										
<i>Eremophila platycalyx</i> subsp. <i>platycalyx</i>				1						
<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>	2									
<i>Eremophila punctata</i>										
<i>Eremophila scoparia</i>										
<i>Eremophila serrulata</i>										
<i>Eriachne helmsii</i>										
<i>Eriachne mucronata</i> (desert form)										
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>										
<i>Eriachne</i> sp.										
<i>Eriochloa</i> sp.										
<i>Erodium</i> sp.										
<i>Eucalyptus</i> ? <i>carnei</i>										
<i>Eucalyptus</i> ? <i>leptopoda</i>										
<i>Eucalyptus</i> ? <i>leptophylla</i>										
<i>Eucalyptus</i> ? <i>trivalvis</i>										
<i>Eucalyptus concinna</i>						4				
<i>Eucalyptus effusa</i>								3		
<i>Eucalyptus gamophylla</i>										
<i>Eucalyptus gongylocarpa</i>	3									3
<i>Eucalyptus horistes</i>										
<i>Eucalyptus leptopoda</i> subsp. <i>elevata</i>		2								
<i>Eucalyptus oldfieldii</i>										
<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>										
<i>Eucalyptus trivalvis</i>	2			3	3					
<i>Eucalyptus youngiana</i>							1			
<i>Euphorbia</i> ? <i>drummondii</i>										
<i>Euphorbia drummondii</i>										
<i>Euphorbia</i> sp.										
<i>Euphorbiaceae</i> sp.?										
<i>Frankenia</i> ? <i>fecunda</i>										
<i>Frankenia fecunda</i>										
<i>Glischrocaryon aureum</i> var. <i>aureum</i>										
<i>Goodenia</i> ? <i>triodiophila</i>										
<i>Goodenia elderi</i>										
<i>Goodenia occidentalis</i>									0.1	
<i>Goodenia quasilibera</i>										

Appendix I Phase 1 Species x site matrix

Species	s13	s130	s131	s132	s133	s134	s135	s137	s139	s14 new
Goodenia ramelii										
Goodenia scaevolina										
Goodenia xanthosperma										
Grevillea ?juncifolia										
Grevillea acacioides										
Grevillea juncifolia	1						2			
Grevillea juncifolia subsp. temulenta				1						
Grevillea nematophylla										
Grevillea nematophylla subsp. planicosta										
Grevillea secunda										
Grevillea stenobotrya										
Gyrostemon ? ramulosus										
Gyrostemon ramulosus										
Gyrostemon sp.										
Hakea francisiana	1				0.1					
Hakea lorea ssp. lorea										
Halgania cyanea var. Allambi Stn (B.W. Strong										
Haloragis trigonocarpa										
Halosarcia ? aff. undulata										
Hannafordia bissillii subsp. bissillii	2			1						
Hannafordia quadrivalvis subsp. quadrivalvis										
Jacksonia arida										
Jasminum didymum subsp. lineare										
Jasminum sp.										
Kennedia prorepens										
Keraudrenia velutina										
Keraudrenia velutina subsp. elliptica				1						
Lawrencia ? glomerata										
Lawrencia sp.?										
Lechenaultia striata										
Lepidium sp.?										
Lepidobolus deserti										
Leptosema chambersii										
Leptospermum fastigiatum		1								
Lomandra leucocephala subsp. robusta							2			
Lysiana ? murrayi										
Lysiana murrayi										
Maireana ? tomentosa									0.5	

Appendix I Phase 1 Species x site matrix

Species	s13	s130	s131	s132	s133	s134	s135	s137	s139	s14 new
Maireana ?villosa										
Maireana georgei										
Maireana integra										
Maireana sedifolia						2				
Maireana sp.										
Maireana tomentosa						1		0.1		0.1
Maireana triptera									0.5	
Maireana villosa										
Marsdenia australis										
Melaleuca interioris										
Melaleuca leiocarpa										
Microcorys macrediana										
Micromyrtus stenocalyx										
Minuria tridens										
Monachather paradoxus			0.5					0.1		
Monotaxis luteiflora										
Myoporum platycarpum										
Newcastelia hexarrhena										
Nicotiana sp.										
Olearia arida										
Olearia decurrens										
Olearia exiguifolia										2
Olearia muelleri									0.1	
Olearia subspicata							2			
Paspalidium basicladium								0.1		
Paspalidium clementii										
Paspalidium sp.						0.1				
Petalostylis cassioides										
Pimelea microcephala subsp. microcephala									0.1	2
Pittosporum angustifolium										
Pityrodia loricata										
Poaceae sp.									0.5	
Podolepis capillaris										
Pomax sp. desert (A.S. George 11968)										
Prostanthera ? althoferi										
Prostanthera ? sericea										
Prostanthera althoferi subsp. althoferi				1						
Prostanthera sericea			0.1							

Appendix I Phase 1 Species x site matrix

Species	s13	s130	s131	s132	s133	s134	s135	s137	s139	s14 new
<i>Psydrax rigidula</i>										
<i>Psydrax suaveolens</i>			2							
<i>Ptilotus drummondii</i>										
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>										
<i>Ptilotus exaltatus</i> var. <i>villosus</i>								0.1		
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>										
<i>Ptilotus obovatus</i>										
<i>Ptilotus obovatus</i> var. <i>obovatus</i>						2		1	2	
<i>Ptilotus polystachyus</i>										
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>										
<i>Ptilotus</i> sp.										
<i>Ptilotus</i> sp. 2										
<i>Rhagodia ?eremaea</i>										
<i>Rhagodia eremaea</i>										
<i>Rhodanthe floribunda</i>										
<i>Rhyncharrhena linearis</i>										
<i>Salicornia australis</i>										
<i>Santalum acuminatum</i>										
<i>Santalum spicatum</i>										
<i>Scaevola basedowii</i>	1									
<i>Scaevola parvifolia</i>										
<i>Scaevola spinescens</i>									1	
<i>Sclerolaena convexula</i>										
<i>Sclerolaena diacantha</i>								1		
<i>Sclerolaena eriacantha</i>										
<i>Sclerolaena fimbriolata</i>										
<i>Sclerolaena patenticuspis</i>									0.5	
Scrophulariaceae sp.?										
<i>Senecio pinnatifolius</i>										
<i>Senna artemisioides</i> subsp. <i>artemisioides</i>						0.1			2	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>										
<i>Senna artemisioides</i> subsp. <i>petiolaris</i>	1					1		1		2
<i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>					0.1					
<i>Sida ? arenicola</i>										
<i>Sida ? calyxhymenia</i>										
<i>Sida ?atrovirens</i>										
<i>Sida fibulifera</i>										
<i>Sida</i> sp.										

Appendix I Phase 1 Species x site matrix

Species	s13	s130	s131	s132	s133	s134	s135	s137	s139	s14 new
Sida spodochroma										
Solanum ? ellipticum										
Solanum ? lasiophyllum										
Solanum centrale						1				
Solanum ellipticum										
Solanum lasiophyllum										0.1
Solanum orbiculatum						1				
Solanum orbiculatum subsp. orbiculatum										
Solanum plicatile								0.1		
Solanum sp.										
Spartothamnella teucriflora										
Spergularia rubra										
Stackhousia sp.?										
Swainsona ?formosa										
Swainsona phacoides										
Swainsona sp.										
Themeda triandra										
Thryptomene biseriata							2			2
Thyridolepis multiculmis										
Triodia ? basedowii										
Triodia ? schinzii										
Triodia basedowii	4		2	3		3		3		1
Triodia desertorum		3				3		3		
Triodia mollis										
Triodia sp.										
Tripogon loliiformis										
Triraphis mollis										
Urochloa piligera?										
Velleia glabrata										
Velleia hispida										
Vittadinia eremaea										
Vittadinia sp.?										
Westringia rigida						1				
Zygophyllum ? eremaeum										
Zygophyllum ? glaucum										
Zygophyllum apiculatum						0.1				
Zygophyllum aurantiacum										
Zygophyllum eremaeum										

Appendix I Phase 1 Species x site matrix

Species	s13	s130	s131	s132	s133	s134	s135	s137	s139	s14 new
Zygophyllum sp.								0.1		

Appendix I Phase 1 Species x site matrix

Species	s15	s16	s17	s18	s19	s20	s21	s22	s23	s24
? Daviesia sp.				1						
?Isotoma sp.										
Abutilon ? oxycarpum										
Abutilon otocarpum										
Acacia ? sibina										
Acacia acanthoclada subsp. acanthoclada										
Acacia aneura										
Acacia aneura var. ? intermedia										
Acacia aneura var. aneura		4						3	3	
Acacia aneura var. argentea							1	2	3	
Acacia aneura var. intermedia										
Acacia aneura var. tenuis								2		
Acacia burkittii										
Acacia colletioides				1	1					
Acacia desertorum var. desertorum										
Acacia eremophila numerous-nerved variant (A				3						
Acacia helmsiana										
Acacia jamesiana										
Acacia ligulata							1	2		1
Acacia murrayana										
Acacia oswaldii				1						
Acacia prainii				1						
Acacia quadrimarginea										
Acacia ramulosa var. linophylla										
Acacia ramulosa var. ramulosa									2	
Acacia rigens										
Acacia sibirica										
Acacia tetragonophylla										
Adriana urticoides var. hookeri							1			2
Alectryon oleifolius subsp. canescens										
Aluta maisonneuvei subsp. auriculata		2						3	2	1
Alyogyne pinoniana				1				1		
Alyxia buxifolia										
Amphipogon caricinus									1	
Amphipogon caricinus var. caricinus										
Amyema fitzgeraldii										
Amyema miquelii										
Anthobolus leptomerioides	1									

Appendix I Phase 1 Species x site matrix

Species	s15	s16	s17	s18	s19	s20	s21	s22	s23	s24
<i>Anthotroche pannosa</i>			2			2	2			3
<i>Aristida contorta</i>										
<i>Aristida holathera</i> var. <i>holathera</i>			1					1		
<i>Aristida</i> sp.										
<i>Atriplex</i> ? <i>vesicaria</i>					1					
<i>Atriplex nummularia</i>										
<i>Atriplex</i> sp.										
<i>Atriplex vesicaria</i>										
<i>Austrostipa</i> ? <i>nitida</i>										
<i>Austrostipa elegantissima</i>										
<i>Austrostipa platychaeta</i>					0.1					
<i>Austrostipa</i> sp.										
<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 C										1
<i>Bertya dimerostigma</i>								1		
<i>Boerhavia coccinea</i> ?										
<i>Boerhavia</i> sp.?										
<i>Brachyscome</i> sp.										
<i>Brunonia australis</i>										
<i>Bulbostylis barbata</i>										
<i>Calandrinia balonensis</i>										
<i>Callitris</i> ? <i>columellaris</i>										
<i>Callitris columellaris</i>			2			1				1
<i>Callitris</i> sp.								1		
<i>Casuarina pauper</i>										
<i>Caustis dioica</i>										
<i>Centaurium spicatum</i>										
<i>Centrolepis eremica</i>										
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>										
<i>Chenopodium desertorum</i>										
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>										
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>										
<i>Chenopodium gaudichaudianum</i>										
<i>Chenopodium melanocarpum</i> forma <i>melanocar</i>										
<i>Chenopodium</i> sp.										
<i>Chrysocephalum apiculatum</i>										
<i>Chrysocephalum eremaeum</i> ?										
<i>Chrysocephalum puteale</i>										
<i>Codonocarpus cotinifolius</i>									1	

Appendix I Phase 1 Species x site matrix

Species	s15	s16	s17	s18	s19	s20	s21	s22	s23	s24
<i>Commersonia melanopetala</i>			1							
<i>Convolvulus remotus?</i>										
<i>Cratystylis subspinescens</i>										
<i>Dampiera dentata</i>										
<i>Dampiera ramosa</i>										
<i>Dampiera tomentosa</i>										
<i>Daviesia grahamii</i>										
<i>Dicrastylis brunnea</i>										
<i>Dicrastylis nicholasii</i>										
<i>Dicrastylis</i> sp. Cundeelee (D.J. Pearson 101)										
<i>Dodonaea adenophora</i>										
<i>Dodonaea lobulata</i>										
<i>Dodonaea rigida</i>										
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>			2					1		2
<i>Duboisia hopwoodii</i>									2	
<i>Dysphania kalpari</i>										
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostach</i>										
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>										
<i>Enneapogon caerulescens</i>										
<i>Enneapogon cylindricus</i>										
<i>Enneapogon polyphyllus</i>										
<i>Enneapogon</i> sp.						0.1				
<i>Eragrostis ? falcata</i>										
<i>Eragrostis dielsii</i>										
<i>Eragrostis eriopoda</i>									1	0.1
<i>Eragrostis pergracilis</i>										
<i>Eragrostis setifolia</i>										
<i>Eragrostis</i> sp.										0.1
<i>Eragrostis xerophila</i>									2	
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>						1				
<i>Eremophila forrestii</i>			2						3	3
<i>Eremophila georgei</i>										
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>										
<i>Eremophila latrobei</i>			1							
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>										
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>									1	1
<i>Eremophila longifolia</i>										
<i>Eremophila miniata</i>										

Appendix I Phase 1 Species x site matrix

Species	s15	s16	s17	s18	s19	s20	s21	s22	s23	s24
Eremophila oppositifolia										
Eremophila paisleyi subsp. paisleyi										
Eremophila platycalyx subsp. platycalyx							1			2
Eremophila platythamnos subsp. platythamnos			1							
Eremophila punctata									3	
Eremophila scoparia										
Eremophila serrulata										
Eriachne helmsii			1							
Eriachne mucronata (desert form)										
Eriachne pulchella subsp. pulchella										
Eriachne sp.										
Eriochloa sp.										
Erodium sp.										
Eucalyptus ? carnei										
Eucalyptus ? leptopoda										
Eucalyptus ? leptophylla										
Eucalyptus ? trivalvis										
Eucalyptus concinna				2						
Eucalyptus effusa										
Eucalyptus gamophylla							0.1			
Eucalyptus gongylocarpa			2				2			2
Eucalyptus horistes				3						
Eucalyptus leptopoda subsp. elevata										
Eucalyptus oldfieldii										
Eucalyptus oleosa subsp. oleosa						3			2	
Eucalyptus trivalvis										
Eucalyptus youngiana							1		1	
Euphorbia ? drummondii										
Euphorbia drummondii										
Euphorbia sp.										
Euphorbiaceae sp.?										
Frankenia ?fecunda										
Frankenia fecunda										
Glischrocaryon aureum var. aureum										
Goodenia ? triodiophila										
Goodenia elderi										
Goodenia occidentalis										
Goodenia quasilibera										

Appendix I Phase 1 Species x site matrix

Species	s15	s16	s17	s18	s19	s20	s21	s22	s23	s24
Goodenia ramelii										
Goodenia scaevolina										
Goodenia xanthosperma										
Grevillea ?juncifolia										
Grevillea acacioides										
Grevillea juncifolia										
Grevillea juncifolia subsp. temulenta								2		
Grevillea nematophylla										
Grevillea nematophylla subsp. planicosta										
Grevillea secunda										
Grevillea stenobotrya							2			
Gyrostemon ? ramulosus							1			
Gyrostemon ramulosus										
Gyrostemon sp.										1
Hakea francisiana								1		
Hakea lorea ssp. lorea										
Halgania cyanea var. Allambi Stn (B.W. Strong)					2					
Haloragis trigonocarpa										
Halosarcia ? aff. undulata										
Hannafordia bissillii subsp. bissillii							1	1		2
Hannafordia quadrivalvis subsp. quadrivalvis							1			
Jacksonia arida										
Jasminum didymum subsp. lineare										
Jasminum sp.										
Kennedia prorepens										
Keraudrenia velutina				1						
Keraudrenia velutina subsp. elliptica									1	
Lawrencia ? glomerata										
Lawrencia sp.?										
Lechenaultia striata										
Lepidium sp.?										
Lepidobolus deserti										
Leptosema chambersii										
Leptospermum fastigiatum										
Lomandra leucocephala subsp. robusta										
Lysiana ? murrayi										
Lysiana murrayi										
Maireana ? tomentosa										

Appendix I Phase 1 Species x site matrix

Species	s15	s16	s17	s18	s19	s20	s21	s22	s23	s24
Maireana ?villosa										
Maireana georgei										
Maireana integra										
Maireana sedifolia										
Maireana sp.										
Maireana tomentosa										
Maireana triptera										
Maireana villosa										
Marsdenia australis		0.1								
Melaleuca interioris										
Melaleuca leiocarpa										
Microcorys macrediana										
Micromyrtus stenocalyx										
Minuria tridens										
Monachather paradoxus								0.1		
Monotaxis luteiflora										
Myoporum platycarpum										
Newcastelia hexarrhena										
Nicotiana sp.										
Olearia arida							1			
Olearia decurrens										
Olearia exiguifolia										
Olearia muelleri					1					
Olearia subspicata										
Paspalidium basicladium										
Paspalidium clementii										
Paspalidium sp.										
Petalostylis cassioides										
Pimelea microcephala subsp. microcephala										
Pittosporum angustifolium										
Pityrodia loricata										
Poaceae sp.										
Podolepis capillaris										
Pomax sp. desert (A.S. George 11968)										
Prostanthera ? althoferi										
Prostanthera ? sericea										
Prostanthera althoferi subsp. althoferi		0.1								
Prostanthera sericea								3	0.1	

Appendix I Phase 1 Species x site matrix

Species	s15	s16	s17	s18	s19	s20	s21	s22	s23	s24
<i>Psydrax rigidula</i>										
<i>Psydrax suaveolens</i>									0.1	
<i>Ptilotus drummondii</i>										
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>										
<i>Ptilotus exaltatus</i> var. <i>villosus</i>										
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>										
<i>Ptilotus obovatus</i>										
<i>Ptilotus obovatus</i> var. <i>obovatus</i>										
<i>Ptilotus polystachyus</i>										
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>										
<i>Ptilotus</i> sp.										
<i>Ptilotus</i> sp. 2										
<i>Rhagodia ?eremaea</i>										
<i>Rhagodia eremaea</i>										
<i>Rhodanthe floribunda</i>										
<i>Rhyncharrhena linearis</i>										
<i>Salicornia australis</i>										
<i>Santalum acuminatum</i>										
<i>Santalum spicatum</i>	1									
<i>Scaevola basedowii</i>						2	1			1
<i>Scaevola parvifolia</i>										
<i>Scaevola spinescens</i>					1			1		
<i>Sclerolaena convexula</i>										
<i>Sclerolaena diacantha</i>										
<i>Sclerolaena eriacantha</i>										
<i>Sclerolaena fimbriolata</i>										
<i>Sclerolaena patenticuspis</i>										
Scrophulariaceae sp.?										
<i>Senecio pinnatifolius</i>										
<i>Senna artemisioides</i> subsp. <i>artemisioides</i>								1		
<i>Senna artemisioides</i> subsp. <i>filifolia</i>						2				
<i>Senna artemisioides</i> subsp. <i>petiolaris</i>				2		1				
<i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>				1						
<i>Sida ? arenicola</i>										
<i>Sida ? calyxhymenia</i>										
<i>Sida ?atrovirens</i>										
<i>Sida fibulifera</i>										
<i>Sida</i> sp.										

Appendix I Phase 1 Species x site matrix

Species	s15	s16	s17	s18	s19	s20	s21	s22	s23	s24
Sida spodochroma										
Solanum ? ellipticum										
Solanum ? lasiophyllum										
Solanum centrale										
Solanum ellipticum										
Solanum lasiophyllum								0.1	1	
Solanum orbiculatum										
Solanum orbiculatum subsp. orbiculatum										
Solanum plicatile								2		
Solanum sp.										
Spartothamnella teucriflora										
Spergularia rubra										
Stackhousia sp.?										
Swainsona ?formosa										
Swainsona phacoides										
Swainsona sp.										
Themeda triandra										
Thryptomene biseriata							2			1
Thyridolepis multiculmis										
Triodia ? basedowii									1	
Triodia ? schinzii										
Triodia basedowii		3							1	
Triodia desertorum							3	3		4
Triodia mollis										
Triodia sp.			3	4	1					
Tripogon loliiformis										
Triraphis mollis										
Urochloa piligera?										
Velleia glabrata										
Velleia hispida										
Vittadinia eremaea										
Vittadinia sp.?										
Westringia rigida										
Zygophyllum ? eremaeum										
Zygophyllum ? glaucum						1				
Zygophyllum apiculatum						0.1				
Zygophyllum aurantiacum										
Zygophyllum eremaeum										

Appendix I Phase 1 Species x site matrix

Species	s15	s16	s17	s18	s19	s20	s21	s22	s23	s24
Zygophyllum sp.										

Appendix I Phase 1 Species x site matrix

Species	s25	s26	s27	s28 new	s29	s30	s31	s32	s33	s34 new
? Daviesia sp.										
?Isotoma sp.										
Abutilon ? oxycarpum										
Abutilon otocarpum										
Acacia ? sibina										
Acacia acanthoclada subsp. acanthoclada										
Acacia aneura										
Acacia aneura var. ? intermedia										
Acacia aneura var. aneura										3
Acacia aneura var. argentea			1							2
Acacia aneura var. intermedia								1		
Acacia aneura var. tenuis										
Acacia burkittii										
Acacia colletioides										
Acacia desertorum var. desertorum										
Acacia eremophila numerous-nerved variant (A										
Acacia helmsiana										
Acacia jamesiana										
Acacia ligulata				1			1		1	1
Acacia murrayana			1							
Acacia oswaldii										
Acacia prainii							2			
Acacia quadrimarginea										
Acacia ramulosa var. linophylla										
Acacia ramulosa var. ramulosa			0.1							1
Acacia rigens						0.1				
Acacia sibirica		0.1								2
Acacia tetragonophylla										2
Adriana urticoides var. hookeri							2	0.1		
Alectryon oleifolius subsp. canescens										
Aluta maisonneuvei subsp. auriculata		0.1							1	
Alyogyne pinoniana							1			
Alyxia buxifolia										1
Amphipogon caricinus						2		2		
Amphipogon caricinus var. caricinus										
Amyema fitzgeraldii										
Amyema miquelii										
Anthobolus leptomerioides										

Appendix I Phase 1 Species x site matrix

Species	s25	s26	s27	s28 new	s29	s30	s31	s32	s33	s34 new
<i>Anthotroche pannosa</i>	3					2		0.1	2	
<i>Aristida contorta</i>							0.1			
<i>Aristida holathera</i> var. <i>holathera</i>	2						2			
<i>Aristida</i> sp.					1					
<i>Atriplex</i> ? <i>vesicaria</i>										
<i>Atriplex nummularia</i>										
<i>Atriplex</i> sp.										
<i>Atriplex vesicaria</i>										
<i>Austrostipa</i> ? <i>nitida</i>										
<i>Austrostipa elegantissima</i>										
<i>Austrostipa platychaeta</i>										
<i>Austrostipa</i> sp.										
<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 C				1						
<i>Bertya dimerostigma</i>									2	
<i>Boerhavia coccinea</i> ?										
<i>Boerhavia</i> sp.?										
<i>Brachyscome</i> sp.										
<i>Brunonia australis</i>										
<i>Bulbostylis barbata</i>										
<i>Calandrinia balonensis</i>										
<i>Callitris</i> ? <i>columellaris</i>										
<i>Callitris columellaris</i>								1	1	
<i>Callitris</i> sp.										
<i>Casuarina pauper</i>										1
<i>Caustis dioica</i>										
<i>Centaurium spicatum</i>										
<i>Centrolepis eremica</i>										
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>										
<i>Chenopodium desertorum</i>										
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>										
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>										
<i>Chenopodium gaudichaudianum</i>										
<i>Chenopodium melanocarpum</i> forma <i>melanocar</i>										
<i>Chenopodium</i> sp.										
<i>Chrysocephalum apiculatum</i>										
<i>Chrysocephalum eremaeum</i> ?										
<i>Chrysocephalum puteale</i>								1	1	
<i>Codonocarpus cotinifolius</i>	1	1	1				1	1		

Appendix I Phase 1 Species x site matrix

Species	s25	s26	s27	s28 new	s29	s30	s31	s32	s33	s34 new
<i>Commersonia melanopetala</i>									0.1	
<i>Convolvulus remotus?</i>										
<i>Cratystylis subspinescens</i>										
<i>Dampiera dentata</i>				0.1						
<i>Dampiera ramosa</i>										
<i>Dampiera tomentosa</i>								2		
<i>Daviesia grahamii</i>									2	
<i>Dicrastylis brunnea</i>		0.1	2	1	3					
<i>Dicrastylis nicholasii</i>			1	2	1					
<i>Dicrastylis</i> sp. Cundelee (D.J. Pearson 101)	2								2	
<i>Dodonaea adenophora</i>										
<i>Dodonaea lobulata</i>										
<i>Dodonaea rigida</i>										
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>						0.1				
<i>Duboisia hopwoodii</i>						0.1		3		
<i>Dysphania kalpari</i>										
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostach</i>										
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>										
<i>Enneapogon caerulescens</i>										
<i>Enneapogon cylindricus</i>										
<i>Enneapogon polyphyllus</i>										
<i>Enneapogon</i> sp.										
<i>Eragrostis ? falcata</i>						1				
<i>Eragrostis dielsii</i>										
<i>Eragrostis eriopoda</i>								1		
<i>Eragrostis pergracilis</i>										
<i>Eragrostis setifolia</i>										
<i>Eragrostis</i> sp.				0.1						
<i>Eragrostis xerophila</i>	1	0.5	0.1							
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>										1
<i>Eremophila forrestii</i>		0.1						2		
<i>Eremophila georgei</i>										
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>										
<i>Eremophila latrobei</i>										
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>										1
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>		0.1								
<i>Eremophila longifolia</i>										
<i>Eremophila miniata</i>										

Appendix I Phase 1 Species x site matrix

Species	s25	s26	s27	s28 new	s29	s30	s31	s32	s33	s34 new
Eremophila oppositifolia										
Eremophila paisleyi subsp. paisleyi										
Eremophila platycalyx subsp. platycalyx	1					0.1				
Eremophila platythamnos subsp. platythamnos			1				0.1			
Eremophila punctata										
Eremophila scoparia										
Eremophila serrulata										
Eriachne helmsii										
Eriachne mucronata (desert form)										
Eriachne pulchella subsp. pulchella										
Eriachne sp.										
Eriochloa sp.										
Erodium sp.										
Eucalyptus ? carnei										
Eucalyptus ? leptopoda					0.1					
Eucalyptus ? leptophylla				1						
Eucalyptus ? trivalvis										
Eucalyptus concinna			0.1							
Eucalyptus effusa										
Eucalyptus gamophylla										
Eucalyptus gongylocarpa	1							2		
Eucalyptus horistes										
Eucalyptus leptopoda subsp. elevata										
Eucalyptus oldfieldii										
Eucalyptus oleosa subsp. oleosa		1				4	1			
Eucalyptus trivalvis			1							
Eucalyptus youngiana	1							1		
Euphorbia ? drummondii										
Euphorbia drummondii										
Euphorbia sp.										
Euphorbiaceae sp.?										
Frankenia ?fecunda										
Frankenia fecunda										
Glischrocaryon aureum var. aureum										
Goodenia ? triodiophila										
Goodenia elderi										
Goodenia occidentalis										
Goodenia quasilibera										

Appendix I Phase 1 Species x site matrix

Species	s25	s26	s27	s28 new	s29	s30	s31	s32	s33	s34 new
Goodenia ramelii										
Goodenia scaevolina										
Goodenia xanthosperma										
Grevillea ?juncifolia										
Grevillea acacioides				1						
Grevillea juncifolia										
Grevillea juncifolia subsp. temulenta										
Grevillea nematophylla										
Grevillea nematophylla subsp. planicosta					0.1					
Grevillea secunda										
Grevillea stenobotrya									2	
Gyrostemon ? ramulosus									1	
Gyrostemon ramulosus	1									
Gyrostemon sp.										
Hakea francisiana										
Hakea lorea ssp. lorea										
Halgania cyanea var. Allambi Stn (B.W. Strong										
Haloragis trigonocarpa										
Halosarcia ? aff. undulata										
Hannafordia bissillii subsp. bissillii	2					2				
Hannafordia quadrivalvis subsp. quadrivalvis										
Jacksonia arida										
Jasminum didymum subsp. lineare										
Jasminum sp.						2				
Kennedia prorepens										
Keraudrenia velutina			3		1					
Keraudrenia velutina subsp. elliptica				2			0.1			
Lawrencia ? glomerata										
Lawrencia sp.?										
Lechenaultia striata										
Lepidium sp.?									1	
Lepidobolus deserti										
Leptosema chambersii			1	4	3				2	
Leptospermum fastigiatum										
Lomandra leucocephala subsp. robusta									1	
Lysiana ? murrayi										
Lysiana murrayi										
Maireana ? tomentosa										

Appendix I Phase 1 Species x site matrix

Species	s25	s26	s27	s28 new	s29	s30	s31	s32	s33	s34 new
Maireana ?villosa										
Maireana georgei										
Maireana integra										
Maireana sedifolia										
Maireana sp.										
Maireana tomentosa										
Maireana triptera										1
Maireana villosa										1
Marsdenia australis										
Melaleuca interioris										
Melaleuca leiocarpa										
Microcorys macrediana										
Micromyrtus stenocalyx		1								
Minuria tridens										
Monachather paradoxus			0.1							
Monotaxis luteiflora										
Myoporum platycarpum										
Newcastelia hexarrhena									0.1	
Nicotiana sp.										
Olearia arida										
Olearia decurrens										
Olearia exiguifolia										
Olearia muelleri										2
Olearia subspicata										
Paspalidium basicladium										
Paspalidium clementii										
Paspalidium sp.										
Petalostylis cassioides										
Pimelea microcephala subsp. microcephala						0.1		1		
Pittosporum angustifolium										1
Pityrodia loricata								2	1	
Poaceae sp.										
Podolepis capillaris										
Pomax sp. desert (A.S. George 11968)		0.1						0.1	0.1	
Prostanthera ? althoferi										
Prostanthera ? sericea										
Prostanthera althoferi subsp. althoferi		1						1		
Prostanthera sericea					3					

Appendix I Phase 1 Species x site matrix

Species	s25	s26	s27	s28 new	s29	s30	s31	s32	s33	s34 new
<i>Psydrax rigidula</i>										
<i>Psydrax suaveolens</i>										
<i>Ptilotus drummondii</i>										
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>										
<i>Ptilotus exaltatus</i> var. <i>villosus</i>										
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>										
<i>Ptilotus obovatus</i>										1
<i>Ptilotus obovatus</i> var. <i>obovatus</i>										
<i>Ptilotus polystachyus</i>										
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>										
<i>Ptilotus</i> sp.										
<i>Ptilotus</i> sp. 2										
<i>Rhagodia ?eremaea</i>										
<i>Rhagodia eremaea</i>										
<i>Rhodanthe floribunda</i>										
<i>Rhyncharrhena linearis</i>										
<i>Salicornia australis</i>										
<i>Santalum acuminatum</i>										
<i>Santalum spicatum</i>										
<i>Scaevola basedowii</i>		2				0.1		0.1		
<i>Scaevola parvifolia</i>										
<i>Scaevola spinescens</i>										2
<i>Sclerolaena convexula</i>										
<i>Sclerolaena diacantha</i>										
<i>Sclerolaena eriacantha</i>										
<i>Sclerolaena fimbriolata</i>										
<i>Sclerolaena patenticuspis</i>										
Scrophulariaceae sp.?										
<i>Senecio pinnatifolius</i>										
<i>Senna artemisioides</i> subsp. <i>artemisioides</i>										1
<i>Senna artemisioides</i> subsp. <i>filifolia</i>										
<i>Senna artemisioides</i> subsp. <i>petiolaris</i>						0.1				
<i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>										
<i>Sida ? arenicola</i>			0.1							
<i>Sida ? calyxhymenia</i>										
<i>Sida ?atrovirens</i>										
<i>Sida fibulifera</i>										
<i>Sida</i> sp.					0.1					1

Appendix I Phase 1 Species x site matrix

Species	s25	s26	s27	s28 new	s29	s30	s31	s32	s33	s34 new
Sida spodochroma										
Solanum ? ellipticum										
Solanum ? lasiophyllum										
Solanum centrale										
Solanum ellipticum										
Solanum lasiophyllum										
Solanum orbiculatum							0.1			
Solanum orbiculatum subsp. orbiculatum										
Solanum plicatile		0.1					1			
Solanum sp.										
Spartothamnella teucriflora										
Spergularia rubra										
Stackhousia sp.?										
Swainsona ?formosa										
Swainsona phacoides										
Swainsona sp.										
Themeda triandra										
Thryptomene biseriata	1					1			1	
Thyridolepis multiculmis										
Triodia ? basedowii								2		
Triodia ? schinzii										
Triodia basedowii		2	2							
Triodia desertorum	2					3			2	
Triodia mollis										
Triodia sp.										
Tripogon loliiformis										
Triraphis mollis										
Urochloa piligera?										
Velleia glabrata										
Velleia hispida										
Vittadinia eremaea										
Vittadinia sp.?										
Westringia rigida							1			
Zygophyllum ? eremaeum										
Zygophyllum ? glaucum										
Zygophyllum apiculatum										
Zygophyllum aurantiacum										
Zygophyllum eremaeum										

Appendix I Phase 1 Species x site matrix

Species	s25	s26	s27	s28 new	s29	s30	s31	s32	s33	s34 new
Zygophyllum sp.										

Appendix I Phase 1 Species x site matrix

Species	s35	s36	s37	s38	s39	s4	s40	s41	s44	s45
? Daviesia sp.										
?Isotoma sp.										
Abutilon ? oxycarpum										
Abutilon otocarpum										1
Acacia ? sibina			1							
Acacia acanthoclada subsp. acanthoclada										
Acacia aneura										1
Acacia aneura var. ? intermedia				3						
Acacia aneura var. aneura									2	
Acacia aneura var. argentea		2		1			1		3	2
Acacia aneura var. intermedia							3		2	2
Acacia aneura var. tenuis										
Acacia burkittii								1	1	
Acacia colletioides								1		
Acacia desertorum var. desertorum										
Acacia eremophila numerous-nerved variant (A										
Acacia helmsiana	3									
Acacia jamesiana										
Acacia ligulata		1								
Acacia murrayana			1			1				
Acacia oswaldii										
Acacia prainii					1					
Acacia quadrimarginea										
Acacia ramulosa var. linophylla										
Acacia ramulosa var. ramulosa	1	1		1						
Acacia rigens										
Acacia sibirica								2		
Acacia tetragonophylla									1	
Adriana urticoides var. hookeri										
Alectryon oleifolius subsp. canescens										
Aluta maisonneuvei subsp. auriculata										
Alyogyne pinoniana										
Alyxia buxifolia										
Amphipogon caricinus			0.5							
Amphipogon caricinus var. caricinus										
Amyema fitzgeraldii									1	
Amyema miquelii										
Anthobolus leptomerioides										1

Appendix I Phase 1 Species x site matrix

Species	s35	s36	s37	s38	s39	s4	s40	s41	s44	s45
<i>Anthotroche pannosa</i>	2		3		1	3				
<i>Aristida contorta</i>							2	1	2	2
<i>Aristida holathera</i> var. <i>holathera</i>		0.1	0.1	2		0.1		0.1		
<i>Aristida</i> sp.										
<i>Atriplex</i> ? <i>vesicaria</i>										
<i>Atriplex nummularia</i>										
<i>Atriplex</i> sp.										
<i>Atriplex vesicaria</i>										
<i>Austrostipa</i> ? <i>nitida</i>										
<i>Austrostipa elegantissima</i>										
<i>Austrostipa platychaeta</i>										
<i>Austrostipa</i> sp.								0.1		
<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 C										
<i>Bertya dimerostigma</i>										
<i>Boerhavia coccinea</i> ?										
<i>Boerhavia</i> sp.?										
<i>Brachyscome</i> sp.										
<i>Brunonia australis</i>										
<i>Bulbostylis barbata</i>										
<i>Calandrinia balonensis</i>								0.1		
<i>Callitris</i> ? <i>columellaris</i>										
<i>Callitris columellaris</i>	2		1		0.1					
<i>Callitris</i> sp.										
<i>Casuarina pauper</i>									1	
<i>Caustis dioica</i>	1									
<i>Centaurium spicatum</i>										
<i>Centrolepis eremica</i>										
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>										
<i>Chenopodium desertorum</i>									1	
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>										
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>										
<i>Chenopodium gaudichaudianum</i>										
<i>Chenopodium melanocarpum</i> forma <i>melanocar</i>										
<i>Chenopodium</i> sp.										
<i>Chrysocephalum apiculatum</i>										
<i>Chrysocephalum eremaeum</i> ?										
<i>Chrysocephalum puteale</i>			1		0.1					1
<i>Codonocarpus cotinifolius</i>				2		2	2	1		

Appendix I Phase 1 Species x site matrix

Species	s35	s36	s37	s38	s39	s4	s40	s41	s44	s45
Commersonia melanopetala										
Convolvulus remotus?										
Cratystylis subspinescens										
Dampiera dentata										
Dampiera ramosa										
Dampiera tomentosa				3						
Daviesia grahamii										
Dicrastylis brunnea		1								
Dicrastylis nicholasii					1		2	1		
Dicrastylis sp. Cundeelee (D.J. Pearson 101)				1						
Dodonaea adenophora										
Dodonaea lobulata	1									
Dodonaea rigida										
Dodonaea viscosa subsp. angustissima	1	1	1							
Duboisia hopwoodii		1			2		1	2		
Dysphania kalpari										
Dysphania rhadinostachya subsp. rhadinostach										
Enchylaena tomentosa var. tomentosa										
Enneapogon caerulescens										
Enneapogon cylindricus										
Enneapogon polyphyllus										2
Enneapogon sp.										
Eragrostis ? falcata										
Eragrostis dielsii										
Eragrostis eriopoda								3		1
Eragrostis pergracilis										
Eragrostis setifolia										
Eragrostis sp.										
Eragrostis xerophila					2			1		
Eremophila decipiens subsp. decipiens									1	1
Eremophila forrestii					2			1		
Eremophila georgei										
Eremophila gilesii subsp. variabilis										
Eremophila latrobei										
Eremophila latrobei subsp. filiformis										1
Eremophila latrobei subsp. latrobei			2							
Eremophila longifolia										
Eremophila miniata										

Appendix I Phase 1 Species x site matrix

Species	s35	s36	s37	s38	s39	s4	s40	s41	s44	s45
<i>Eremophila oppositifolia</i>										
<i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>										
<i>Eremophila platycalyx</i> subsp. <i>platycalyx</i>							1	1		
<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>			0.1		1					
<i>Eremophila punctata</i>										
<i>Eremophila scoparia</i>										
<i>Eremophila serrulata</i>										1
<i>Eriachne helmsii</i>		0.1					1		1	
<i>Eriachne mucronata</i> (desert form)										
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>										
<i>Eriachne</i> sp.										
<i>Eriochloa</i> sp.										0.1
<i>Erodium</i> sp.										
<i>Eucalyptus</i> ? <i>carnei</i>										
<i>Eucalyptus</i> ? <i>leptopoda</i>										
<i>Eucalyptus</i> ? <i>leptophylla</i>										
<i>Eucalyptus</i> ? <i>trivalvis</i>										
<i>Eucalyptus concinna</i>								3	2	
<i>Eucalyptus effusa</i>										
<i>Eucalyptus gamophylla</i>										
<i>Eucalyptus gongylocarpa</i>	1	3	1	1	1					
<i>Eucalyptus horistes</i>										
<i>Eucalyptus leptopoda</i> subsp. <i>elevata</i>										
<i>Eucalyptus oldfieldii</i>										
<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>	2					3				
<i>Eucalyptus trivalvis</i>										
<i>Eucalyptus youngiana</i>				2						
<i>Euphorbia</i> ? <i>drummondii</i>										
<i>Euphorbia drummondii</i>										0.1
<i>Euphorbia</i> sp.										
<i>Euphorbiaceae</i> sp.?										
<i>Frankenia</i> ? <i>fecunda</i>										
<i>Frankenia fecunda</i>										
<i>Glischrocaryon aureum</i> var. <i>aureum</i>										
<i>Goodenia</i> ? <i>triodiophila</i>								0.1		
<i>Goodenia elderi</i>										
<i>Goodenia occidentalis</i>										
<i>Goodenia quasilibera</i>										

Appendix I Phase 1 Species x site matrix

Species	s35	s36	s37	s38	s39	s4	s40	s41	s44	s45
Goodenia ramelii										
Goodenia scaevolina										
Goodenia xanthosperma										
Grevillea ?juncifolia						3				
Grevillea acacioides										
Grevillea juncifolia										
Grevillea juncifolia subsp. temulenta									1	
Grevillea nematophylla										
Grevillea nematophylla subsp. planicosta								1		
Grevillea secunda							1			
Grevillea stenobotrya										
Gyrostemon ? ramulosus										
Gyrostemon ramulosus										
Gyrostemon sp.										
Hakea francisiana										
Hakea lorea ssp. lorea										
Halgania cyanea var. Allambi Stn (B.W. Strong										
Haloragis trigonocarpa										0.1
Halosarcia ? aff. undulata										
Hannafordia bissillii subsp. bissillii					1					
Hannafordia quadrivalvis subsp. quadrivalvis				0.1		1				
Jacksonia arida										
Jasminum didymum subsp. lineare									1	
Jasminum sp.										
Kennedia prorepens										
Keraudrenia velutina								1		
Keraudrenia velutina subsp. elliptica										
Lawrencia ? glomerata										
Lawrencia sp.?										
Lechenaultia striata							1			
Lepidium sp.?										
Lepidobolus deserti										
Leptosema chambersii										
Leptospermum fastigiatum										
Lomandra leucocephala subsp. robusta		2				0.1				
Lysiana ? murrayi										
Lysiana murrayi										
Maireana ? tomentosa										

Appendix I Phase 1 Species x site matrix

Species	s35	s36	s37	s38	s39	s4	s40	s41	s44	s45
Maireana ?villosa										
Maireana georgei										
Maireana integra										1
Maireana sedifolia										
Maireana sp.										
Maireana tomentosa									2	
Maireana triptera										
Maireana villosa									1	
Marsdenia australis										
Melaleuca interioris										
Melaleuca leiocarpa										
Microcorys macrediana										
Micromyrtus stenocalyx		2								
Minuria tridens										
Monachather paradoxus			0.1					3		0.1
Monotaxis luteiflora										
Myoporum platycarpum										
Newcastelia hexarrhena			0.1							
Nicotiana sp.										
Olearia arida								0.1		
Olearia decurrens										
Olearia exiguifolia										
Olearia muelleri										
Olearia subspicata			0.1							
Paspalidium basicladium								1		
Paspalidium clementii									0.1	
Paspalidium sp.										
Petalostylis cassioides										
Pimelea microcephala subsp. microcephala										
Pittosporum angustifolium										
Pityrodia loricata		1		3						
Poaceae sp.										0.1
Podolepis capillaris										0.1
Pomax sp. desert (A.S. George 11968)										
Prostanthera ? althoferi										
Prostanthera ? sericea								0.1		
Prostanthera althoferi subsp. althoferi										
Prostanthera sericea										

Appendix I Phase 1 Species x site matrix

Species	s35	s36	s37	s38	s39	s4	s40	s41	s44	s45
<i>Psydrax rigidula</i>										
<i>Psydrax suaveolens</i>										
<i>Ptilotus drummondii</i>										
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>										
<i>Ptilotus exaltatus</i> var. <i>villosus</i>								0.1		
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>										0.1
<i>Ptilotus obovatus</i>									2	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>										2
<i>Ptilotus polystachyus</i>								0.1	0.1	0.1
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>										
<i>Ptilotus</i> sp.								0.1		
<i>Ptilotus</i> sp. 2										
<i>Rhagodia ?eremaea</i>										
<i>Rhagodia eremaea</i>									1	
<i>Rhodanthe floribunda</i>										
<i>Rhyncharrhena linearis</i>										0.1
<i>Salicornia australis</i>										
<i>Santalum acuminatum</i>		0.1								
<i>Santalum spicatum</i>										
<i>Scaevola basedowii</i>	1				0.1					
<i>Scaevola parvifolia</i>						1				
<i>Scaevola spinescens</i>										
<i>Sclerolaena convexula</i>								0.1		
<i>Sclerolaena diacantha</i>										1
<i>Sclerolaena eriacantha</i>										
<i>Sclerolaena fimbriolata</i>										
<i>Sclerolaena patenticuspis</i>										
Scrophulariaceae sp.?										
<i>Senecio pinnatifolius</i>										
<i>Senna artemisioides</i> subsp. <i>artemisioides</i>										
<i>Senna artemisioides</i> subsp. <i>filifolia</i>										
<i>Senna artemisioides</i> subsp. <i>petiolaris</i>								1	3	3
<i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>										
<i>Sida ? arenicola</i>										
<i>Sida ? calyxhymenia</i>										
<i>Sida ?atrovirens</i>										
<i>Sida fibulifera</i>										
<i>Sida</i> sp.										

Appendix I Phase 1 Species x site matrix

Species	s35	s36	s37	s38	s39	s4	s40	s41	s44	s45
Sida spodochroma										
Solanum ? ellipticum										
Solanum ? lasiophyllum										
Solanum centrale										1
Solanum ellipticum										
Solanum lasiophyllum		0.1							0.1	1
Solanum orbiculatum									2	
Solanum orbiculatum subsp. orbiculatum										
Solanum plicatile				2		1	2	1		
Solanum sp.										
Spartothamnella teucriflora										
Spergularia rubra										
Stackhousia sp.?										
Swainsona ?formosa										
Swainsona phacoides										
Swainsona sp.										
Themeda triandra										
Thryptomene biseriata	2		1			0.1				
Thyridolepis multiculmis										
Triodia ? basedowii										
Triodia ? schinzii										
Triodia basedowii						3		3	3	
Triodia desertorum	3	3								
Triodia mollis										
Triodia sp.			3							
Tripogon loliiformis										
Triraphis mollis										
Urochloa piligera?										
Velleia glabrata								0.1		
Velleia hispida										
Vittadinia eremaea										
Vittadinia sp.?										1
Westringia rigida						0.1				
Zygophyllum ? eremaeum										
Zygophyllum ? glaucum										
Zygophyllum apiculatum										
Zygophyllum aurantiacum										
Zygophyllum eremaeum								1		

Appendix I Phase 1 Species x site matrix

Species	s35	s36	s37	s38	s39	s4	s40	s41	s44	s45
Zygophyllum sp.										

Appendix I Phase 1 Species x site matrix

Species	s82	s83	s86	s92	s95	s96	s97	s98	s99
? Daviesia sp.									
?Isotoma sp.									
Abutilon ? oxycarpum									
Abutilon otocarpum									
Acacia ? sibina									
Acacia acanthoclada subsp. acanthoclada									
Acacia aneura									
Acacia aneura var. ? intermedia									
Acacia aneura var. aneura		1							
Acacia aneura var. argentea		1							3
Acacia aneura var. intermedia									
Acacia aneura var. tenuis									
Acacia burkittii				2					
Acacia colletioides					1	1			
Acacia desertorum var. desertorum									
Acacia eremophila numerous-nerved variant (A)						2			
Acacia helmsiana									
Acacia jamesiana									
Acacia ligulata					2				
Acacia murrayana									
Acacia oswaldii									
Acacia prainii									
Acacia quadrimarginea									
Acacia ramulosa var. linophylla									
Acacia ramulosa var. ramulosa									3
Acacia rigens									
Acacia sibirica									
Acacia tetragonophylla									
Adriana urticoides var. hookeri									
Alectryon oleifolius subsp. canescens									
Aluta maisonneuvei subsp. auriculata									3
Alyogyne pinoniana									
Alyxia buxifolia									
Amphipogon caricinus									
Amphipogon caricinus var. caricinus									
Amyema fitzgeraldii									
Amyema miquelii									
Anthobolus leptomerioides				1			1		

Appendix I Phase 1 Species x site matrix

Species	s82	s83	s86	s92	s95	s96	s97	s98	s99
<i>Anthotroche pannosa</i>					1			2	
<i>Aristida contorta</i>	0.1	0.5		0.5			0.5	1	
<i>Aristida holathera</i> var. <i>holathera</i>					0.1				
<i>Aristida</i> sp.									
<i>Atriplex</i> ? <i>vesicaria</i>			1						
<i>Atriplex nummularia</i>									
<i>Atriplex</i> sp.				2					
<i>Atriplex vesicaria</i>	0.1	2		2					
<i>Austrostipa</i> ? <i>nitida</i>									
<i>Austrostipa elegantissima</i>		1							
<i>Austrostipa platychaeta</i>									
<i>Austrostipa</i> sp.									
<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 C									
<i>Bertya dimerostigma</i>								1	
<i>Boerhavia coccinea</i> ?									
<i>Boerhavia</i> sp.?									
<i>Brachyscome</i> sp.									
<i>Brunonia australis</i>									
<i>Bulbostylis barbata</i>									
<i>Calandrinia balonensis</i>									
<i>Callitris</i> ? <i>columellaris</i>									
<i>Callitris columellaris</i>			3					1	
<i>Callitris</i> sp.									
<i>Casuarina pauper</i>									
<i>Caustis dioica</i>									
<i>Centaurium spicatum</i>									
<i>Centrolepis eremica</i>									
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>									
<i>Chenopodium desertorum</i>									
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>									
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>			1						
<i>Chenopodium gaudichaudianum</i>									
<i>Chenopodium melanocarpum</i> forma <i>melanocar</i>									
<i>Chenopodium</i> sp.									
<i>Chrysocephalum apiculatum</i>									
<i>Chrysocephalum eremaeum</i> ?									
<i>Chrysocephalum puteale</i>								2	
<i>Codonocarpus cotinifolius</i>									

Appendix I Phase 1 Species x site matrix

Species	s82	s83	s86	s92	s95	s96	s97	s98	s99
Commersonia melanopetala									
Convolvulus remotus?									
Cratystylis subspinescens									
Dampiera dentata									
Dampiera ramosa									
Dampiera tomentosa									
Daviesia grahamii								2	
Dicrastylis brunnea									
Dicrastylis nicholasii									
Dicrastylis sp. Cundeelee (D.J. Pearson 101)									
Dodonaea adenophora									
Dodonaea lobulata									
Dodonaea rigida									
Dodonaea viscosa subsp. angustissima				2	1				
Duboisia hopwoodii					1				
Dysphania kalpari		0.5							
Dysphania rhadinostachya subsp. rhadinostach							0.5		
Enchylaena tomentosa var. tomentosa									
Enneapogon caerulescens	0.5						0.5		
Enneapogon cylindricus				0.5					
Enneapogon polyphyllus									
Enneapogon sp.									
Eragrostis ? falcata									0.1
Eragrostis dielsii	3	3							
Eragrostis eriopoda									
Eragrostis pergracilis									
Eragrostis setifolia									
Eragrostis sp.									
Eragrostis xerophila									
Eremophila decipiens subsp. decipiens				0.1					
Eremophila forrestii									
Eremophila georgei									
Eremophila gilesii subsp. variabilis									
Eremophila latrobei									
Eremophila latrobei subsp. filiformis									
Eremophila latrobei subsp. latrobei									
Eremophila longifolia									
Eremophila miniata									

Appendix I Phase 1 Species x site matrix

Species	s82	s83	s86	s92	s95	s96	s97	s98	s99
<i>Eremophila oppositifolia</i>									
<i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>							1		
<i>Eremophila platycalyx</i> subsp. <i>platycalyx</i>									
<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>						1			
<i>Eremophila punctata</i>									1
<i>Eremophila scoparia</i>									
<i>Eremophila serrulata</i>									
<i>Eriachne helmsii</i>									
<i>Eriachne mucronata</i> (desert form)									
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>									
<i>Eriachne</i> sp.	0.1			0.5					
<i>Eriochloa</i> sp.									
<i>Erodium</i> sp.									
<i>Eucalyptus</i> ? <i>carnei</i>									
<i>Eucalyptus</i> ? <i>leptopoda</i>									
<i>Eucalyptus</i> ? <i>leptophylla</i>									
<i>Eucalyptus</i> ? <i>trivalvis</i>									
<i>Eucalyptus concinna</i>							3		
<i>Eucalyptus effusa</i>									
<i>Eucalyptus gamophylla</i>									
<i>Eucalyptus gongylocarpa</i>						1			1
<i>Eucalyptus horistes</i>				2					
<i>Eucalyptus leptopoda</i> subsp. <i>elevata</i>									
<i>Eucalyptus oldfieldii</i>									
<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>							3		
<i>Eucalyptus trivalvis</i>									
<i>Eucalyptus youngiana</i>						1			
<i>Euphorbia</i> ? <i>drummondii</i>									
<i>Euphorbia drummondii</i>									
<i>Euphorbia</i> sp.									
<i>Euphorbiaceae</i> sp.?			2						
<i>Frankenia</i> ? <i>fecunda</i>									
<i>Frankenia fecunda</i>			2						
<i>Glischrocaryon aureum</i> var. <i>aureum</i>									
<i>Goodenia</i> ? <i>triodiophila</i>									
<i>Goodenia elderi</i>									
<i>Goodenia occidentalis</i>									
<i>Goodenia quasilibera</i>									

Appendix I Phase 1 Species x site matrix

Species	s82	s83	s86	s92	s95	s96	s97	s98	s99
Goodenia ramelii									
Goodenia scaevolina									
Goodenia xanthosperma									
Grevillea ?juncifolia									
Grevillea acacioides									
Grevillea juncifolia									
Grevillea juncifolia subsp. temulenta						1			
Grevillea nematophylla									
Grevillea nematophylla subsp. planicosta									
Grevillea secunda									
Grevillea stenobotrya									
Gyrostemon ? ramulosus									
Gyrostemon ramulosus									
Gyrostemon sp.									
Hakea francisiana						1			
Hakea lorea ssp. lorea									
Halgania cyanea var. Allambi Stn (B.W. Strong									
Haloragis trigonocarpa									
Halosarcia ? aff. undulata		0.1							
Hannafordia bissillii subsp. bissillii									
Hannafordia quadrivalvis subsp. quadrivalvis									
Jacksonia arida									
Jasminum didymum subsp. lineare									
Jasminum sp.									
Kennedia prorepens									
Keraudrenia velutina									
Keraudrenia velutina subsp. elliptica									
Lawrencia ? glomerata									
Lawrencia sp.?									
Lechenaultia striata									
Lepidium sp.?									
Lepidobolus deserti									
Leptosema chambersii									
Leptospermum fastigiatum									
Lomandra leucocephala subsp. robusta									
Lysiana ? murrayi									
Lysiana murrayi									
Maireana ? tomentosa									

Appendix I Phase 1 Species x site matrix

Species	s82	s83	s86	s92	s95	s96	s97	s98	s99
Maireana ?villosa									
Maireana georgei									
Maireana integra									
Maireana sedifolia									
Maireana sp.	2								
Maireana tomentosa									
Maireana triptera									
Maireana villosa				1					
Marsdenia australis									
Melaleuca interioris	4								
Melaleuca leiocarpa									
Microcorys macrediana									
Micromyrtus stenocalyx									
Minuria tridens									
Monachather paradoxus									0.1
Monotaxis luteiflora									
Myoporum platycarpum							0.1		
Newcastelia hexarrhena									
Nicotiana sp.									
Olearia arida									
Olearia decurrens									
Olearia exiguifolia									
Olearia muelleri									
Olearia subspicata						1			
Paspalidium basicladium									
Paspalidium clementii									
Paspalidium sp.									
Petalostylis cassioides									
Pimelea microcephala subsp. microcephala									
Pittosporum angustifolium									
Pityrodia loricata						1		2	
Poaceae sp.									
Podolepis capillaris									
Pomax sp. desert (A.S. George 11968)								2	
Prostanthera ? althoferi									
Prostanthera ? sericea									
Prostanthera althoferi subsp. althoferi									
Prostanthera sericea									2

Appendix I Phase 1 Species x site matrix

Species	s82	s83	s86	s92	s95	s96	s97	s98	s99
<i>Psydrax rigidula</i>									
<i>Psydrax suaveolens</i>									0.1
<i>Ptilotus drummondii</i>									
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>									
<i>Ptilotus exaltatus</i> var. <i>villosus</i>									
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>									
<i>Ptilotus obovatus</i>									
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	1			2					
<i>Ptilotus polystachyus</i>	0.1								
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>									
<i>Ptilotus</i> sp.									
<i>Ptilotus</i> sp. 2									
<i>Rhagodia ?eremaea</i>									
<i>Rhagodia eremaea</i>				1					
<i>Rhodanthe floribunda</i>									
<i>Rhyncharrhena linearis</i>				0.1					
<i>Salicornia australis</i>	0.1	0.1		0.1					
<i>Santalum acuminatum</i>									
<i>Santalum spicatum</i>									
<i>Scaevola basedowii</i>					1			1	
<i>Scaevola parvifolia</i>									
<i>Scaevola spinescens</i>									
<i>Sclerolaena convexula</i>		0.1							
<i>Sclerolaena diacantha</i>									
<i>Sclerolaena eriacantha</i>									
<i>Sclerolaena fimbriolata</i>				1					
<i>Sclerolaena patenticuspis</i>									
Scrophulariaceae sp.?									
<i>Senecio pinnatifolius</i>									
<i>Senna artemisioides</i> subsp. <i>artemisioides</i>									
<i>Senna artemisioides</i> subsp. <i>filifolia</i>									
<i>Senna artemisioides</i> subsp. <i>petiolaris</i>				3	1	1			
<i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>									
<i>Sida ? arenicola</i>									
<i>Sida ? calyxhymenia</i>									
<i>Sida ?atrovirens</i>									
<i>Sida fibulifera</i>									
<i>Sida</i> sp.									0.1

Appendix I Phase 1 Species x site matrix

Species	s82	s83	s86	s92	s95	s96	s97	s98	s99
Sida spodochroma									
Solanum ? ellipticum									
Solanum ? lasiophyllum				0.1					
Solanum centrale									
Solanum ellipticum									
Solanum lasiophyllum	0.1								
Solanum orbiculatum				1					
Solanum orbiculatum subsp. orbiculatum									
Solanum plicatile									
Solanum sp.				1					
Spartothamnella teucriflora									
Spergularia rubra									
Stackhousia sp.?									
Swainsona ?formosa									
Swainsona phacoides									
Swainsona sp.									
Themeda triandra									
Thryptomene biseriata					3			2	
Thyridolepis multiculmis									
Triodia ? basedowii									
Triodia ? schinzii									
Triodia basedowii									1
Triodia desertorum					2			1	
Triodia mollis									
Triodia sp.						4			1
Tripogon loliiformis									
Triraphis mollis									
Urochloa piligera?									
Velleia glabrata									
Velleia hispida									
Vittadinia eremaea									
Vittadinia sp.?									
Westringia rigida									
Zygophyllum ? eremaeum									
Zygophyllum ? glaucum									
Zygophyllum apiculatum									
Zygophyllum aurantiacum				1					
Zygophyllum eremaeum									

Appendix I Phase 1 Species x site matrix

Species	s82	s83	s86	s92	s95	s96	s97	s98	s99
Zygophyllum sp.							0.5		



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Appendix J Species by site matrix Phase 2

Appendix J Phase 2 species by site matrix

	S174	S27	S233	S29	S169	S04	S05	S211	S06	S168	S208	S239	S192	S204	S170	S41
<i>Abutilon otocarpum</i>																
<i>Abutilon oxycarpum subsp. prostratum</i>																
<i>Abutilon sp.</i>																
<i>Acacia acanthoclada</i>																
<i>Acacia acanthoclada subsp. acanthoclada</i>																
<i>Acacia aff. sorophylla</i>											1	1				
<i>Acacia aneura</i>											1	2	2	2	3	
<i>Acacia aneura x ayersiana</i>																
<i>Acacia ayersiana</i>																2
<i>Acacia burkittii</i>													1	2	1	2
<i>Acacia camptoclada</i>																
<i>Acacia colletioides</i>										1					1	1
<i>Acacia coolgardiensis subsp. coolgardiensis</i>																
<i>Acacia desertorum var. desertorum</i>																
<i>Acacia eremophila numerous-nerved variant (A.S. George 11924)</i>																
<i>Acacia exocarpoides</i>																
<i>Acacia gracillima</i>																
<i>Acacia helmsiana</i>																
<i>Acacia hemiteles</i>												1				
<i>Acacia heteroneura var. jutsonii</i>												3				
<i>Acacia jamesiana</i>							1									
<i>Acacia kempeana</i>															1	1
<i>Acacia ligulata</i>				1												
<i>Acacia murrayana</i>	2	1		2		1					1					
<i>Acacia nyssophylla</i>														1		
<i>Acacia oswaldii</i>																
<i>Acacia prainii</i>					1											
<i>Acacia quadrimarginea</i>																
<i>Acacia ramulosa var. ramulosa</i>		1														
<i>Acacia rigens</i>										1						2
<i>Acacia sibilans</i>																
<i>Acacia sibina</i>																
<i>Acacia sibirica</i>													2	2		
<i>Acacia tetragonophylla</i>													1	2		
<i>Adriana urticoides var. hookeri</i>																
<i>Alectryon oleifolius subsp. canescens</i>																
<i>Allocauarina acutivalvis</i>																
<i>Allocauarina helmsii</i>																

Appendix J Phase 2 species by site matrix

	S174	S27	S233	S29	S169	S04	S05	S211	S06	S168	S208	S239	S192	S204	S170	S41
<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>						2		2	1	1	2	2				
<i>Alyogyne pinoniana</i>								1	1							
<i>Alyxia buxifolia</i>																
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	1		1					2	1							
<i>Amyema fitzgeraldii</i>																
<i>Anthotroche pannosa</i>						3			1							
<i>Aristida contorta</i>						2	1						1			1
<i>Aristida holathera</i> var. <i>holathera</i>				1	1			2	1							
<i>Aristida</i> sp.																
<i>Asteridea chaetopoda</i>																
<i>Atriplex nummularia</i>																
<i>Atriplex vesicaria</i>																
<i>Austrostipa platychaeta</i>																
<i>Baeckea</i> sp. <i>Gt. Victoria Desert (A.S. Weston 14813)</i>																
<i>Baeckea</i> sp. <i>Sandstone (C.A. Gardner s.n. 26 Oct. 1963)</i>			1													
<i>Bertya dimerostigma</i>								2				2				
<i>Boerhavia coccinea</i>																
<i>Bonamia rosea</i>																
<i>Brachyscome</i> sp.																
<i>Bulbostylis barbata</i>																
<i>Caesia</i> sp.																
<i>Caesia</i> sp. <i>Great Victoria Desert p.n.</i>																
<i>Calandrinia</i> sp.																
<i>Callitris columellaris</i>																
<i>Callitris preissii</i>					1	1	1	1		1	2	2				
<i>Callitris</i> sp.									1							
<i>Calothamnus gilesii</i>																
<i>Calotis hispidula</i>																
<i>Calotis multicaulis</i>																
<i>Calytrix</i> sp.																
<i>Casuarina pauper</i>																
<i>Caustis dioica</i>																
<i>Centaurium spicatum</i>																
<i>Centipeda pleiocephala</i>																
<i>Centrolepis eremica</i>																
<i>Cephalopterum drummondii</i>																
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>																
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>																

Appendix J Phase 2 species by site matrix

	S174	S27	S233	S29	S169	S04	S05	S211	S06	S168	S208	S239	S192	S204	S170	S41
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>																
<i>Chenopodium gaudichaudianum</i>																
<i>Chenopodium melanocarpum</i> forma <i>melanocarpum</i>																
<i>Chenopodium nitrariaceum</i>																
<i>Chrysocephalum apiculatum</i>																
<i>Chrysocephalum pterochaetum</i>																
<i>Chrysocephalum puteale</i>																
<i>Codonocarpus cotinifolius</i>		1			1	2	2	2	2	2		1	1			
<i>Commersonia melanopetala</i>																
<i>Conospermum toddii</i>																
<i>Cratystylis subspinescens</i>																
<i>Cryptandra distigma</i>																
<i>Cymbopogon obtectus</i>																
<i>Dactyloctenium radulans</i>																
<i>Dampiera dentata</i>	2															
<i>Dampiera eriantha</i>																
<i>Dampiera ramosa</i>																
<i>Dampiera roycei</i>										1						
<i>Dampiera stenophylla</i>																
<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i>																
<i>Daviesia gracilis</i>																
<i>Daviesia grahamii</i>																
<i>Daviesia purpurascens</i>																
<i>Dianella revoluta</i> var. <i>divaricata</i>																
<i>Dicrastylis brunnea</i>	2	2	1	2					2	1	1		2			
<i>Dicrastylis georgei</i>																
<i>Dicrastylis nicholasii</i>	2	2				3										
<i>Dicrastylis</i> sp.																
<i>Dicrastylis</i> sp. <i>Cundeelee</i> (D.J. Pearson 101)					3				1	2		1				
<i>Digitaria brownii</i>																
<i>Dodonaea lobulata</i>																
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>																
<i>Dodonaea rigida</i>																
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>																
<i>Duboisia hopwoodii</i>				1	1	1	2	3	2	1	1					2
<i>Dysphania kalpari</i>																
<i>Eleocharis pallens</i>																
<i>Enekbatus eremaeus</i>		1								1						

Appendix J Phase 2 species by site matrix

	S174	S27	S233	S29	S169	S04	S05	S211	S06	S168	S208	S239	S192	S204	S170	S41
<i>Enneapogon caerulescens</i> var. <i>caerulescens</i>													1			
<i>Enneapogon polyphyllus</i>													2			
<i>Enteropogon ramosus</i>																
<i>Eragrostis australasica</i>																
<i>Eragrostis dielsii</i>																
<i>Eragrostis eriopoda</i>									1							
<i>Eragrostis falcata</i>			1									1	1		1	1
<i>Eragrostis laniflora</i>																
<i>Eragrostis pergracilis</i>																
<i>Eragrostis setifolia</i>				1		1		1	1	2						
<i>Eragrostis xerophila</i>		1														
<i>Eremophila alternifolia</i>													1	1	2	
<i>Eremophila decipiens</i>																
<i>Eremophila exilis</i>																
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>															1	
<i>Eremophila fraseri</i>																
<i>Eremophila georgei</i>																
<i>Eremophila gilesii</i> subsp. <i>gilesii</i>																
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>														1		
<i>Eremophila glabra</i> subsp. <i>glabra</i>										1				1	1	1
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>																
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>																
<i>Eremophila longifolia</i>																
<i>Eremophila miniata</i>																
<i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>																1
<i>Eremophila platycalyx</i> subsp. <i>platycalyx</i>																
<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>			1		2	1				2	2					
<i>Eremophila punctata</i>																
<i>Eremophila scoparia</i>																
<i>Eremophila serrulata</i>																
<i>Eremophila</i> sp.																
<i>Eremophila subfloccosa</i> subsp. <i>lanata</i>																
<i>Eriachne helmsii</i>							2									
<i>Eriachne mucronata</i> (arid form) (MET 12 736)																
<i>Eriachne mucronata</i> (desert form)																
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>																
<i>Erodium aureum</i>																
<i>Erodium carolinianum</i>																

Appendix J Phase 2 species by site matrix

	S174	S27	S233	S29	S169	S04	S05	S211	S06	S168	S208	S239	S192	S204	S170	S41
<i>Erodium cygnorum</i>																
<i>Eucalyptus concinna</i>		1			1									3		3
<i>Eucalyptus drummondii</i>																
<i>Eucalyptus ebbanoensis subsp. glauciramula</i>																
<i>Eucalyptus effusa</i>																1
<i>Eucalyptus eremicola subsp. eremicola</i>																
<i>Eucalyptus ewartiana</i>								3								
<i>Eucalyptus gongylocarpa</i>																
<i>Eucalyptus gracilis</i>										2						2
<i>Eucalyptus horistes</i>										1						
<i>Eucalyptus leptopoda subsp. elevata</i>			2	2							1					
<i>Eucalyptus oldfieldii</i>												1				
<i>Eucalyptus oleosa subsp. oleosa</i>					1											
<i>Eucalyptus socialis</i>																
<i>Eucalyptus socialis subsp. victoriensis</i>																
<i>Eucalyptus sp. (?horistes)</i>																3
<i>Eucalyptus trivalva</i>		1	2	2			3						1	3	3	2
<i>Eucalyptus youngiana</i>			2		2	1	2	2		2			1			
<i>Euphorbia drummondii</i>																
<i>Euphorbia tannensis ssp. eremophila (Panorama form)</i>																
<i>Euphorbia tannensis subsp. eremophila</i>																
<i>Fimbristylis dichotoma</i>																
<i>Frankenia cinerea</i>																
<i>Frankenia fecunda</i>																
<i>Glischrocaryon aureum</i>																
<i>Gompholobium gompholobioides</i>																
<i>Goodenia elderi</i>																
<i>Goodenia glabra</i>						1										
<i>Goodenia scaevolina</i>									1							
<i>Goodenia sp.</i>																
<i>Goodenia triodiophila</i>																
<i>Goodenia xanthosperma</i>							1		1							
<i>Grevillea acacioides</i>								1								
<i>Grevillea didymobotrya subsp. didymobotrya</i>																
<i>Grevillea juncifolia</i>																
<i>Grevillea juncifolia subsp. temulenta</i>					1			1		1	3					
<i>Grevillea nematophylla subsp. planicosta</i>																
<i>Grevillea sarissa</i>																

Appendix J Phase 2 species by site matrix

	S174	S27	S233	S29	S169	S04	S05	S211	S06	S168	S208	S239	S192	S204	S170	S41
<i>Grevillea stenobotrya</i>																
<i>Gyrostemon ramulosus</i>																
<i>Hakea francisiana</i>							1	1			1	1				
<i>Hakea lorea</i> subsp. <i>lorea</i>																
<i>Hakea rhombales</i>																
<i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i>																
<i>Haloragis gossei</i>																
<i>Halosarcia</i> ? aff. <i>undulata</i>																
<i>Halosarcia halocnemoides</i>																
<i>Halosarcia indica</i> subsp. <i>bidens</i>																
<i>Halosarcia pruinosa</i>																
<i>Hannafordia bissillii</i> subsp. <i>bissillii</i>							1	1								
<i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i>																
<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>																
<i>Indigofera georgei</i>																
<i>Isotoma petraea</i>																
<i>Jacksonia arida</i>																
<i>Jasminum calcarium</i>																
<i>Jasminum didymum</i> subsp. <i>lineare</i>																1
<i>Jasminum</i> sp.																
<i>Keraudrenia velutina</i> subsp. <i>elliptica</i>	3	3		1	1				1	3		1				
<i>Lechenaultia striata</i>																
<i>Leiocarpa semicalva</i> subsp. <i>semicalva</i>																
<i>Lepidium phlebopetalum</i>																
<i>Lepidium platypetalum</i>																
<i>Lepidobolus deserti</i>																
<i>Leptosema chambersii</i>	3	1	3	3			1		2	3						
<i>Leptospermum fastigiatum</i>											1	1				
<i>Logania nuda</i>																
<i>Lomandra leucocephala</i> subsp. <i>robusta</i>																
<i>Lysiana murrayi</i>																
<i>Maireana</i> ? <i>georgei</i>																
<i>Maireana brevifolia</i>																
<i>Maireana glomerifolia</i>																
<i>Maireana integra</i>																
<i>Maireana pentatropis</i>															1	
<i>Maireana pyramidata</i>																
<i>Maireana sedifolia</i>																

Appendix J Phase 2 species by site matrix

	S174	S27	S233	S29	S169	S04	S05	S211	S06	S168	S208	S239	S192	S204	S170	S41
<i>Maireana</i> sp.																
<i>Maireana</i> sp.1																
<i>Maireana</i> sp.2																
<i>Maireana tomentosa</i>																
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>															2	
<i>Maireana trichoptera</i>															2	
<i>Maireana triptera</i>																
<i>Maireana turbinata</i>																
<i>Maireana villosa</i>																
<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)																
<i>Marsdenia australis</i>						1										
<i>Marsilea hirsuta</i>																
<i>Melaleuca</i> aff. <i>leiocarpa</i>										1						
<i>Melaleuca interioris</i>																
<i>Melaleuca leiocarpa</i>												2				
<i>Melaleuca zeteticorum</i>	1									1						
<i>Microcorys macrediana</i>																
<i>Micromyrtus obovata</i>																
<i>Micromyrtus stenocalyx</i>																
<i>Minuria</i> sp.																
<i>Minuria tridens</i>																
<i>Mirbelia rhagodioides</i>													1			
<i>Monachather paradoxus</i>																
<i>Monotaxis luteiflora</i>										1						
<i>Muehlenbeckia florulenta</i>																
<i>Murchisonia volubilis</i>																
<i>Myoporum platycarpum</i>																
<i>Newcastelia hexarrhena</i>												1				
<i>Nicotiana rosulata</i>																
<i>Nicotiana</i> sp.																
<i>Olearia arida</i>																1
<i>Olearia decurrens</i>																
<i>Olearia exiguifolia</i>																
<i>Olearia muelleri</i>																
<i>Olearia stuartii</i>																
<i>Olearia subspicata</i>						2										1
<i>Otion simplicifolium</i>								1								
<i>Paspalidium basicladium</i>													1	2		1

Appendix J Phase 2 species by site matrix

	S174	S27	S233	S29	S169	S04	S05	S211	S06	S168	S208	S239	S192	S204	S170	S41
<i>Persoonia coriacea</i>																
<i>Petalostylis cassioides</i>	1															
<i>Phebalium canaliculatum</i>																
<i>Pimelea microcephala</i> subsp. <i>microcephala</i>																
<i>Pittosporum angustifolium</i>																
<i>Pityrodia loricata</i>																
<i>Podolepis capillaris</i>																
<i>Pomax</i> sp. desert (A.S. George 11968)																
<i>Prostanthera althoferi</i>																
<i>Prostanthera sericea</i>																
<i>Psydrax attenuata</i>																
<i>Psydrax latifolia</i>																
<i>Psydrax suaveolens</i>																
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>																
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>																
<i>Ptilotus obovatus</i> var. <i>obovatus</i>													1	2	1	
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>													1			
<i>Ptilotus sessilifolius</i>																
<i>Rhagodia eremaea</i>																
<i>Rhodanthe chlorocephala</i> subsp. <i>rosea</i>																
<i>Rhodanthe maryonii</i>																
<i>Rhyncharrhena linearis</i>								1								
<i>Salicornia australis</i>																
<i>Salsola australis</i>																
<i>Santalum acuminatum</i>																
<i>Santalum lanceolatum</i>																
<i>Santalum spicatum</i>																
<i>Scaevola basedowii</i>																
<i>Scaevola parvibarbata</i>																
<i>Scaevola parvifolia</i>	1				1	1			1							
<i>Scaevola spinescens</i>													1			1
<i>Sclerolaena convexula</i>																2
<i>Sclerolaena densiflora</i>																
<i>Sclerolaena deserticola</i>																
<i>Sclerolaena diacantha</i>																
<i>Sclerolaena eriacantha</i>																
<i>Sclerolaena eurotioides</i>																
<i>Sclerolaena obliquicuspis</i>																

Appendix J Phase 2 species by site matrix

	S174	S27	S233	S29	S169	S04	S05	S211	S06	S168	S208	S239	S192	S204	S170	S41
<i>Sclerolaena parviflora</i>																
<i>Sclerolaena patenticuspis</i>																
<i>Sclerolaena symoniana</i>																
<i>Senecio pinnatifolius</i>																
<i>Senna artemisioides</i> subsp. <i>artemisioides</i>																
<i>Senna artemisioides</i> subsp. <i>filifolia</i>																
<i>Senna artemisioides</i> subsp. <i>petiolaris</i>									1				1	1	1	1
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>															2	
<i>Senna glaucifolia</i>																
<i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>										1			1			
<i>Senna</i> sp. <i>Billabong</i> (J.D. Alonzo 721)																
<i>Sida arenicola</i>		1														
<i>Sida atrovirens</i>																
<i>Sida calyxhymenia</i>																
<i>Sida chrysocalyx</i>													1			
<i>Sida fibulifera</i>																
<i>Sida phaeotricha</i>																
<i>Sida</i> sp.				1												
<i>Sida spodochroma</i>																
<i>Solanum centrale</i>																
<i>Solanum ellipticum</i>																
<i>Solanum ferocissimum</i>																
<i>Solanum lasiophyllum</i>													1	1		
<i>Solanum nummularium</i>						1										
<i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>				1												
<i>Solanum plicatile</i>				1	3	1		2	1							1
<i>Sonchus oleraceus</i>																
<i>Spartothamnella teucriflora</i>																
<i>Spergularia rubra</i>																
<i>Stackhousia megaloptera</i>																
<i>Stylidium induratum</i>																
<i>Stylidium limbatum</i>																
<i>Swainsona affinis</i>																
<i>Swainsona formosa</i>																
<i>Templetonia aculeata</i>																
<i>Thryptomene biseriata</i>						2	2	3								
<i>Thyridolepis xerophila</i>																
<i>Thysanotus manglesianus</i>																

Appendix J Phase 2 species by site matrix

	S174	S27	S233	S29	S169	S04	S05	S211	S06	S168	S208	S239	S192	S204	S170	S41
<i>Triodia basedowii</i>	4	3	2		3		2	1	3	4	3	3	1	3	2	3
<i>Triodia desertorum</i>															3	
<i>Triodia mollis</i>																
<i>Triodia scariosa</i>																
<i>Triraphis mollis</i>																
<i>Velleia glabrata</i>																
<i>Velleia hispida</i>																
<i>Vittadinia sp.</i>					2											
<i>Vittadinia sulcata</i>																
<i>Westringia cephalantha</i>										1						
<i>Westringia rigida</i>																
<i>Wilsonia sp.</i>																
<i>Xanthorrhoea thornstonii</i>																
<i>Zygophyllum apiculatum</i>																
<i>Zygophyllum aurantiacum</i>																
<i>Zygophyllum eremaeum</i>																1
<i>Zygophyllum fruticosum</i>																
<i>Zygophyllum sp.</i>																

Appendix J Phase 2 species by site matrix

	S60	S153	S78	S165	S128	S194	S141	S85	S17	S104	S09	S21	S217	S177	S178	S147
<i>Abutilon otocarpum</i>																
<i>Abutilon oxycarpum</i> subsp. <i>prostratum</i>																
<i>Abutilon</i> sp.																
<i>Acacia acanthoclada</i>																
<i>Acacia acanthoclada</i> subsp. <i>acanthoclada</i>											1					
<i>Acacia</i> aff. <i>sorophylla</i>				1												1
<i>Acacia aneura</i>	2	1														
<i>Acacia aneura</i> x <i>ayersiana</i>																
<i>Acacia ayersiana</i>									1							
<i>Acacia burkittii</i>					1		1									
<i>Acacia camptoclada</i>								4								
<i>Acacia colletioides</i>	1	1	1	1			1									
<i>Acacia coolgardiensis</i> subsp. <i>coolgardiensis</i>																
<i>Acacia desertorum</i> var. <i>desertorum</i>	1															
<i>Acacia eremophila</i> numerous-nerved variant (A.S. George 119)																
<i>Acacia exocarpoides</i>																
<i>Acacia gracillima</i>																
<i>Acacia helmsiana</i>																
<i>Acacia hemiteles</i>																
<i>Acacia heteroneura</i> var. <i>jutsonii</i>				1												
<i>Acacia jamesiana</i>																1
<i>Acacia kempeana</i>																
<i>Acacia ligulata</i>		1		1	1					1	3	2	1			1
<i>Acacia murrayana</i>	1	1	2													
<i>Acacia nyssophylla</i>							1									
<i>Acacia oswaldii</i>																
<i>Acacia prainii</i>			1	1		2	1	1	2	1						
<i>Acacia quadrimarginea</i>																
<i>Acacia ramulosa</i> var. <i>ramulosa</i>											1	2				
<i>Acacia rigens</i>																
<i>Acacia sibilans</i>																
<i>Acacia sibina</i>		1														
<i>Acacia sibirica</i>																
<i>Acacia tetragonophylla</i>																
<i>Adriana urticoides</i> var. <i>hookeri</i>																1
<i>Alectryon oleifolius</i> subsp. <i>canescens</i>																
<i>Allocasuarina acutivalvis</i>																
<i>Allocasuarina helmsii</i>																

Appendix J Phase 2 species by site matrix

	S60	S153	S78	S165	S128	S194	S141	S85	S17	S104	S09	S21	S217	S177	S178	S147
<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>											1	1	1			1
<i>Alyogyne pinoniana</i>											2		2	1	1	1
<i>Alyxia buxifolia</i>										2	1					
<i>Amphipogon caricinus</i> var. <i>caricinus</i>												1		2		
<i>Amyema fitzgeraldii</i>																
<i>Anthotroche pannosa</i>									2		2	2	3			
<i>Aristida contorta</i>		1	1		1				1	1		1				
<i>Aristida holathera</i> var. <i>holathera</i>																
<i>Aristida</i> sp.														3		
<i>Asteridea chaetopoda</i>																
<i>Atriplex nummularia</i>																
<i>Atriplex vesicaria</i>																
<i>Austrostipa platychaeta</i>																
<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)																
<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963)																
<i>Bertya dimerostigma</i>					1							2			2	
<i>Boerhavia coccinea</i>																
<i>Bonamia rosea</i>																
<i>Brachyscome</i> sp.																
<i>Bulbostylis barbata</i>																
<i>Caesia</i> sp.																
<i>Caesia</i> sp. Great Victoria Desert p.n.																
<i>Calandrinia</i> sp.																
<i>Callitris columellaris</i>																
<i>Callitris preissii</i>								1	2	2	1	2				
<i>Callitris</i> sp.																
<i>Calothamnus gilesii</i>																
<i>Calotis hispidula</i>																
<i>Calotis multicaulis</i>																
<i>Calytrix</i> sp.																
<i>Casuarina pauper</i>																
<i>Caustis dioica</i>																
<i>Centaurium spicatum</i>																
<i>Centipeda pleiocephala</i>																
<i>Centrolepis eremica</i>																
<i>Cephalopterum drummondii</i>																
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>																
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>																

Appendix J Phase 2 species by site matrix

	S60	S153	S78	S165	S128	S194	S141	S85	S17	S104	S09	S21	S217	S177	S178	S147
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>																
<i>Chenopodium gaudichaudianum</i>																
<i>Chenopodium melanocarpum</i> forma <i>melanocarpum</i>																
<i>Chenopodium nitrariaceum</i>																
<i>Chrysocephalum apiculatum</i>																
<i>Chrysocephalum pterochaetum</i>																
<i>Chrysocephalum puteale</i>																
<i>Codonocarpus cotinifolius</i>		1	1													2
<i>Commersonia melanopetala</i>									1					2		1
<i>Conospermum toddii</i>																
<i>Cratystylis subspinescens</i>																
<i>Cryptandra distigma</i>																
<i>Cymbopogon obtectus</i>																
<i>Dactyloctenium radulans</i>																
<i>Dampiera dentata</i>																
<i>Dampiera eriantha</i>																
<i>Dampiera ramosa</i>																
<i>Dampiera roycei</i>																
<i>Dampiera stenophylla</i>																
<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i>																
<i>Daviesia gracilis</i>																
<i>Daviesia grahamii</i>																
<i>Daviesia purpurascens</i>				1												
<i>Dianella revoluta</i> var. <i>divaricata</i>															1	
<i>Dicrastylis brunnea</i>		2			1	1					1		2			
<i>Dicrastylis georgei</i>																
<i>Dicrastylis nicholasii</i>																1
<i>Dicrastylis</i> sp.																
<i>Dicrastylis</i> sp. <i>Cundeelee</i> (D.J. Pearson 101)					2									2		
<i>Digitaria brownii</i>																
<i>Dodonaea lobulata</i>																
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>																
<i>Dodonaea rigida</i>													1			
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>			1	1				2	2	2	2	1	1			
<i>Duboisia hopwoodii</i>	2	1			1								3			1
<i>Dysphania kalpari</i>																
<i>Eleocharis pallens</i>																
<i>Enekbatus eremaeus</i>																

Appendix J Phase 2 species by site matrix

	S60	S153	S78	S165	S128	S194	S141	S85	S17	S104	S09	S21	S217	S177	S178	S147
<i>Enneapogon caerulescens</i> var. <i>caerulescens</i>																
<i>Enneapogon polyphyllus</i>						1										
<i>Enteropogon ramosus</i>																
<i>Eragrostis australasica</i>																
<i>Eragrostis dielsii</i>																
<i>Eragrostis eriopoda</i>					2											
<i>Eragrostis falcata</i>				1												
<i>Eragrostis laniflora</i>																
<i>Eragrostis pergracilis</i>																
<i>Eragrostis setifolia</i>														1		
<i>Eragrostis xerophila</i>			1													
<i>Eremophila alternifolia</i>	3															
<i>Eremophila decipiens</i>																
<i>Eremophila exilis</i>			1													
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>														2		
<i>Eremophila fraseri</i>																
<i>Eremophila georgei</i>																
<i>Eremophila gilesii</i> subsp. <i>gilesii</i>																
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>																
<i>Eremophila glabra</i> subsp. <i>glabra</i>	1	1	1		1	2				1					1	
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>																
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>																
<i>Eremophila longifolia</i>																
<i>Eremophila miniata</i>																
<i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>			1			2				2						
<i>Eremophila platycalyx</i> subsp. <i>platycalyx</i>																
<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>	1	1		2	1	1	1	2	2		2	2	3	3	2	1
<i>Eremophila punctata</i>																
<i>Eremophila scoparia</i>	3															
<i>Eremophila serrulata</i>																
<i>Eremophila</i> sp.																
<i>Eremophila subfloccosa</i> subsp. <i>lanata</i>							1									
<i>Eriachne helmsii</i>					1	1					1		1			
<i>Eriachne mucronata</i> (arid form) (MET 12 736)			1				1									
<i>Eriachne mucronata</i> (desert form)																
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>																
<i>Erodium aureum</i>																
<i>Erodium carolinianum</i>																

Appendix J Phase 2 species by site matrix

	S60	S153	S78	S165	S128	S194	S141	S85	S17	S104	S09	S21	S217	S177	S178	S147
<i>Erodium cygnorum</i>																
<i>Eucalyptus concinna</i>		2		2		3		2								2
<i>Eucalyptus drummondii</i>																
<i>Eucalyptus ebbanoensis subsp. glauciramula</i>																
<i>Eucalyptus effusa</i>		2	2													
<i>Eucalyptus eremicola subsp. eremicola</i>																
<i>Eucalyptus ewartiana</i>																
<i>Eucalyptus gongylocarpa</i>		1	1					2	2	3	3	2	1	2	3	2
<i>Eucalyptus gracilis</i>																
<i>Eucalyptus horistes</i>																
<i>Eucalyptus leptopoda subsp. elevata</i>																
<i>Eucalyptus oldfieldii</i>																
<i>Eucalyptus oleosa subsp. oleosa</i>																
<i>Eucalyptus socialis</i>																
<i>Eucalyptus socialis subsp. victoriensis</i>			2													
<i>Eucalyptus sp. (?horistes)</i>																
<i>Eucalyptus trivalva</i>	3				3	3	3							2	2	
<i>Eucalyptus youngiana</i>		2														
<i>Euphorbia drummondii</i>																
<i>Euphorbia tannensis ssp. eremophila (Panorama form)</i>																
<i>Euphorbia tannensis subsp. eremophila</i>																
<i>Fimbristylis dichotoma</i>																
<i>Frankenia cinerea</i>																
<i>Frankenia fecunda</i>																
<i>Glischrocaryon aureum</i>																
<i>Gompholobium gompholobioides</i>																
<i>Goodenia elderi</i>																1
<i>Goodenia glabra</i>																
<i>Goodenia scaevolina</i>																
<i>Goodenia sp.</i>																
<i>Goodenia triodiophila</i>		1														
<i>Goodenia xanthosperma</i>		1			1									2		
<i>Grevillea acacioides</i>																
<i>Grevillea didymobotrya subsp. didymobotrya</i>																
<i>Grevillea juncifolia</i>																
<i>Grevillea juncifolia subsp. temulenta</i>												2	1	1		
<i>Grevillea nematophylla subsp. planicosta</i>						1	2									
<i>Grevillea sarissa</i>																

Appendix J Phase 2 species by site matrix

	S60	S153	S78	S165	S128	S194	S141	S85	S17	S104	S09	S21	S217	S177	S178	S147
<i>Grevillea stenobotrya</i>																
<i>Gyrostemon ramulosus</i>																
<i>Hakea francisiana</i>	1						1				1	2				
<i>Hakea lorea</i> subsp. <i>lorea</i>																
<i>Hakea rhombales</i>																
<i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i>			1					1					1			1
<i>Haloragis gossei</i>																
<i>Halosarcia</i> ? aff. <i>undulata</i>																
<i>Halosarcia halocnemoides</i>																
<i>Halosarcia indica</i> subsp. <i>bidens</i>																
<i>Halosarcia pruinosa</i>																
<i>Hannafordia bissillii</i> subsp. <i>bissillii</i>		1									2	1	1			
<i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i>											2					
<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>																
<i>Indigofera georgei</i>			1										1			
<i>Isotoma petraea</i>																
<i>Jacksonia arida</i>																
<i>Jasminum calcarium</i>												1				
<i>Jasminum didymum</i> subsp. <i>lineare</i>																
<i>Jasminum</i> sp.													1			
<i>Keraudrenia velutina</i> subsp. <i>elliptica</i>				1					1					3	1	1
<i>Lechenaultia striata</i>																
<i>Leiocarpa semicalva</i> subsp. <i>semicalva</i>																
<i>Lepidium phlebopetalum</i>																
<i>Lepidium platypetalum</i>																
<i>Lepidobolus deserti</i>																
<i>Leptosema chambersii</i>															3	
<i>Leptospermum fastigiatum</i>																
<i>Logania nuda</i>																
<i>Lomandra leucocephala</i> subsp. <i>robusta</i>								1								
<i>Lysiana murrayi</i>																
<i>Maireana</i> ? <i>georgei</i>																
<i>Maireana brevifolia</i>																
<i>Maireana glomerifolia</i>																
<i>Maireana integra</i>																
<i>Maireana pentatropis</i>																
<i>Maireana pyramidata</i>																
<i>Maireana sedifolia</i>																

Appendix J Phase 2 species by site matrix

	S60	S153	S78	S165	S128	S194	S141	S85	S17	S104	S09	S21	S217	S177	S178	S147
<i>Maireana</i> sp.																
<i>Maireana</i> sp.1																
<i>Maireana</i> sp.2																
<i>Maireana tomentosa</i>																
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	1															
<i>Maireana trichoptera</i>																
<i>Maireana triptera</i>																
<i>Maireana turbinata</i>																
<i>Maireana villosa</i>																
<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)																
<i>Marsdenia australis</i>																
<i>Marsilea hirsuta</i>																
<i>Melaleuca</i> aff. <i>leiocarpa</i>																
<i>Melaleuca interioris</i>																
<i>Melaleuca leiocarpa</i>																
<i>Melaleuca zeteticorum</i>																
<i>Microcorys macrediana</i>									2					2	2	2
<i>Micromyrtus obovata</i>														1		
<i>Micromyrtus stenocalyx</i>																
<i>Minuria</i> sp.																
<i>Minuria tridens</i>																
<i>Mirbelia rhagodioides</i>																
<i>Monachather paradoxus</i>																
<i>Monotaxis luteiflora</i>																
<i>Muehlenbeckia florulenta</i>																
<i>Murchisonia volubilis</i>																
<i>Myoporum platycarpum</i>																
<i>Newcastelia hexarrhena</i>																1
<i>Nicotiana rosulata</i>																
<i>Nicotiana</i> sp.																
<i>Olearia arida</i>												1	1			
<i>Olearia decurrens</i>																
<i>Olearia exiguifolia</i>								1							1	
<i>Olearia muelleri</i>																
<i>Olearia stuartii</i>																
<i>Olearia subspicata</i>								1								
<i>Otion simplicifolium</i>																
<i>Paspalidium basicladium</i>	2												1			

Appendix J Phase 2 species by site matrix

	S60	S153	S78	S165	S128	S194	S141	S85	S17	S104	S09	S21	S217	S177	S178	S147
<i>Persoonia coriacea</i>																
<i>Petalostylis cassioides</i>																
<i>Phebalium canaliculatum</i>																
<i>Pimelea microcephala</i> subsp. <i>microcephala</i>										1	1					
<i>Pittosporum angustifolium</i>											1					
<i>Pityrodia loricata</i>																
<i>Podolepis capillaris</i>																
<i>Pomax</i> sp. desert (A.S. George 11968)																
<i>Prostanthera althoferi</i>																
<i>Prostanthera sericea</i>																
<i>Psydrax attenuata</i>																
<i>Psydrax latifolia</i>																
<i>Psydrax suaveolens</i>																
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>	1					1										
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>																
<i>Ptilotus obovatus</i> var. <i>obovatus</i>			1			2							2			
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>											1					
<i>Ptilotus sessilifolius</i>		1		1												
<i>Rhagodia eremaea</i>																
<i>Rhodanthe chlorocephala</i> subsp. <i>rosea</i>																
<i>Rhodanthe maryonii</i>																
<i>Rhyncharrhena linearis</i>		1	1													
<i>Salicornia australis</i>																
<i>Salsola australis</i>																
<i>Santalum acuminatum</i>																
<i>Santalum lanceolatum</i>																
<i>Santalum spicatum</i>																
<i>Scaevola basedowii</i>											1	1		1	1	1
<i>Scaevola parvibarbata</i>																
<i>Scaevola parvifolia</i>	1			1	1	1			1							
<i>Scaevola spinescens</i>	1	1								1						
<i>Sclerolaena convexula</i>																
<i>Sclerolaena densiflora</i>																
<i>Sclerolaena deserticola</i>																
<i>Sclerolaena diacantha</i>																
<i>Sclerolaena eriacantha</i>																
<i>Sclerolaena eurotioides</i>																
<i>Sclerolaena obliquicuspis</i>																

Appendix J Phase 2 species by site matrix

	S60	S153	S78	S165	S128	S194	S141	S85	S17	S104	S09	S21	S217	S177	S178	S147
<i>Sclerolaena parviflora</i>																
<i>Sclerolaena patenticuspis</i>																
<i>Sclerolaena symoniana</i>																
<i>Senecio pinnatifolius</i>																
<i>Senna artemisioides subsp. artemisioides</i>																
<i>Senna artemisioides subsp. filifolia</i>																
<i>Senna artemisioides subsp. petiolaris</i>	1	1	1					1	2	1	1					1
<i>Senna artemisioides subsp. x artemisioides</i>																
<i>Senna glaucifolia</i>																
<i>Senna pleurocarpa var. pleurocarpa</i>		1	1	1	1				2	1			1	1		
<i>Senna sp. Billabong (J.D. Alonzo 721)</i>																
<i>Sida arenicola</i>																
<i>Sida atrovirens</i>																
<i>Sida calyxhymenia</i>																
<i>Sida chrysocalyx</i>																
<i>Sida fibulifera</i>																
<i>Sida phaeotricha</i>																
<i>Sida sp.</i>																
<i>Sida spodochroma</i>																
<i>Solanum centrale</i>																
<i>Solanum ellipticum</i>																
<i>Solanum ferocissimum</i>																
<i>Solanum lasiophyllum</i>			1									1				
<i>Solanum nummularium</i>																
<i>Solanum orbiculatum subsp. orbiculatum</i>	1		1			1					1	1	1			
<i>Solanum plicatile</i>	2	1	1			1							2			
<i>Sonchus oleraceus</i>																
<i>Spartothamnella teucriflora</i>																
<i>Spergularia rubra</i>																
<i>Stackhousia megaloptera</i>																1
<i>Stylidium induratum</i>																
<i>Stylidium limbatum</i>																
<i>Swainsona affinis</i>																
<i>Swainsona formosa</i>																
<i>Templetonia aculeata</i>																
<i>Thryptomene biseriata</i>																
<i>Thyridolepis xerophila</i>																
<i>Thysanotus manglesianus</i>																

Appendix J Phase 2 species by site matrix

	S60	S153	S78	S165	S128	S194	S141	S85	S17	S104	S09	S21	S217	S177	S178	S147
<i>Triodia basedowii</i>	2	3	3	4	1	3	3			3			2	3	1	
<i>Triodia desertorum</i>								2	2		3	3				3
<i>Triodia mollis</i>																
<i>Triodia scariosa</i>																
<i>Triraphis mollis</i>																
<i>Velleia glabrata</i>																
<i>Velleia hispida</i>																
<i>Vittadinia sp.</i>																
<i>Vittadinia sulcata</i>																
<i>Westringia cephalantha</i>				1												
<i>Westringia rigida</i>								1		1						
<i>Wilsonia sp.</i>																
<i>Xanthorrhoea thorntonii</i>																
<i>Zygophyllum apiculatum</i>																
<i>Zygophyllum aurantiacum</i>																
<i>Zygophyllum eremaeum</i>	1															
<i>Zygophyllum fruticosum</i>																
<i>Zygophyllum sp.</i>																

Appendix J Phase 2 species by site matrix

	S161	S103	S205	S12	S11	S132	S69	S68	S35	S236	S130	S106	S175	S136	S162	S210	S33
<i>Abutilon otocarpum</i>																	
<i>Abutilon oxycarpum subsp. prostratum</i>																	
<i>Abutilon sp.</i>																	
<i>Acacia acanthoclada</i>																	
<i>Acacia acanthoclada subsp. acanthoclada</i>					2								1	1			
<i>Acacia aff. sorophylla</i>	2								1	2			1		2		
<i>Acacia aneura</i>	1						1	1		2							
<i>Acacia aneura x ayersiana</i>																	
<i>Acacia ayersiana</i>																	
<i>Acacia burkittii</i>																	
<i>Acacia camptoclada</i>																	
<i>Acacia colletioides</i>	1									1							
<i>Acacia coolgardiensis subsp. coolgardiensis</i>																	
<i>Acacia desertorum var. desertorum</i>																	
<i>Acacia eremophila numerous-nerved variant (A.S. George 119)</i>		1															
<i>Acacia exocarpoides</i>																	
<i>Acacia gracillima</i>																	
<i>Acacia helmsiana</i>									3								
<i>Acacia hemiteles</i>																	
<i>Acacia heteroneura var. jutsonii</i>															1		
<i>Acacia jamesiana</i>	1			1			3	3			4						
<i>Acacia kempeana</i>																	
<i>Acacia ligulata</i>	1						1	1							1	1	1
<i>Acacia murrayana</i>								1									
<i>Acacia nyssophylla</i>																	
<i>Acacia oswaldii</i>																	
<i>Acacia prainii</i>	1	1	1	2			1		1								
<i>Acacia quadrimarginea</i>																	
<i>Acacia ramulosa var. ramulosa</i>										1	1						1
<i>Acacia rigens</i>																	
<i>Acacia sibilans</i>																	
<i>Acacia sibina</i>																	
<i>Acacia sibirica</i>																	
<i>Acacia tetragonophylla</i>											1						
<i>Adriana urticoides var. hookeri</i>																	
<i>Alectryon oleifolius subsp. canescens</i>																	
<i>Allocasuarina acutivalvis</i>																	
<i>Allocasuarina helmsii</i>																	

Appendix J Phase 2 species by site matrix

	S161	S103	S205	S12	S11	S132	S69	S68	S35	S236	S130	S106	S175	S136	S162	S210	S33
<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>								3	1	2	1	3					
<i>Alyogyne pinoniana</i>	1						1								1	1	
<i>Alyxia buxifolia</i>																	
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	1											1					
<i>Amyema fitzgeraldii</i>																	
<i>Anthotroche pannosa</i>				3	2				2					2			2
<i>Aristida contorta</i>	1											1		1			
<i>Aristida holathera</i> var. <i>holathera</i>																4	1
<i>Aristida</i> sp.																	
<i>Asteridea chaetopoda</i>																	
<i>Atriplex nummularia</i>																	
<i>Atriplex vesicaria</i>																	
<i>Austrostipa platychaeta</i>																	
<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)											1	2					
<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963)											1						
<i>Bertya dimerostigma</i>					1			1	1	3	2					2	2
<i>Boerhavia coccinea</i>																	
<i>Bonamia rosea</i>																	
<i>Brachyscome</i> sp.																	
<i>Bulbostylis barbata</i>																	
<i>Caesia</i> sp.					3												
<i>Caesia</i> sp. Great Victoria Desert p.n.													2	2			1
<i>Calandrinia</i> sp.																	
<i>Callitris columellaris</i>									2	3							
<i>Callitris preissii</i>		3	1	1	1		1	2						1			1
<i>Callitris</i> sp.		3															
<i>Calothamnus gilesii</i>															1		
<i>Calotis hispidula</i>																	
<i>Calotis multicaulis</i>																	
<i>Calytrix</i> sp.													1				
<i>Casuarina pauper</i>																	
<i>Caustis dioica</i>					1				1								
<i>Centaurium spicatum</i>																	
<i>Centipeda pleiocephala</i>																	
<i>Centrolepis eremica</i>																	
<i>Cephalopterum drummondii</i>																	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>																	
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>																	

Appendix J Phase 2 species by site matrix

	S161	S103	S205	S12	S11	S132	S69	S68	S35	S236	S130	S106	S175	S136	S162	S210	S33
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>																	
<i>Chenopodium gaudichaudianum</i>																	
<i>Chenopodium melanocarpum</i> forma <i>melanocarpum</i>																	
<i>Chenopodium nitrariaceum</i>																	
<i>Chrysocephalum apiculatum</i>																	
<i>Chrysocephalum pterochaetum</i>																	
<i>Chrysocephalum puteale</i>			1		1								1	3	1	1	1
<i>Codonocarpus cotinifolius</i>																2	
<i>Commersonia melanopetala</i>	2		1					1						1	2		
<i>Conospermum toddii</i>														2			
<i>Cratystylis subspinescens</i>																	
<i>Cryptandra distigma</i>													1		3		
<i>Cymbopogon obtectus</i>																	
<i>Dactyloctenium radulans</i>																	
<i>Dampiera dentata</i>																	
<i>Dampiera eriantha</i>															1		
<i>Dampiera ramosa</i>														1		1	1
<i>Dampiera roycei</i>																	
<i>Dampiera stenophylla</i>														1			
<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i>																	
<i>Daviesia gracilis</i>															3		
<i>Daviesia grahamii</i>			1		1								3	1			2
<i>Daviesia purpurascens</i>																	
<i>Dianella revoluta</i> var. <i>divaricata</i>								1									
<i>Dicrastylis brunnea</i>	2							2	1								
<i>Dicrastylis georgei</i>																	
<i>Dicrastylis nicholasii</i>	1													1			
<i>Dicrastylis</i> sp.																	
<i>Dicrastylis</i> sp. <i>Cundeelee</i> (D.J. Pearson 101)															1	2	
<i>Digitaria brownii</i>																	
<i>Dodonaea lobulata</i>										1							
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>																	
<i>Dodonaea rigida</i>																	
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>				1	1					1	1						
<i>Duboisia hopwoodii</i>												1					
<i>Dysphania kalpari</i>																	
<i>Eleocharis pallens</i>																	
<i>Enekbatus eremaeus</i>																	

Appendix J Phase 2 species by site matrix

	S161	S103	S205	S12	S11	S132	S69	S68	S35	S236	S130	S106	S175	S136	S162	S210	S33
<i>Enneapogon caerulescens</i> var. <i>caerulescens</i>																	
<i>Enneapogon polyphyllus</i>																	
<i>Enteropogon ramosus</i>																	
<i>Eragrostis australasica</i>																	
<i>Eragrostis dielsii</i>																	
<i>Eragrostis eriopoda</i>																	
<i>Eragrostis falcata</i>																	
<i>Eragrostis laniflora</i>																	
<i>Eragrostis pergracilis</i>																	
<i>Eragrostis setifolia</i>																	
<i>Eragrostis xerophila</i>																	
<i>Eremophila alternifolia</i>				1													
<i>Eremophila decipiens</i>																	
<i>Eremophila exilis</i>																	
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>													2			3	
<i>Eremophila fraseri</i>				1													
<i>Eremophila georgei</i>				2													
<i>Eremophila gilesii</i> subsp. <i>gilesii</i>																	
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>																	
<i>Eremophila glabra</i> subsp. <i>glabra</i>		1															
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>																	
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>						2											
<i>Eremophila longifolia</i>																	
<i>Eremophila miniata</i>																	
<i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>																	
<i>Eremophila platycalyx</i> subsp. <i>platycalyx</i>																	
<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>									2						2		
<i>Eremophila punctata</i>																	
<i>Eremophila scoparia</i>																	
<i>Eremophila serrulata</i>																	
<i>Eremophila</i> sp.						1											
<i>Eremophila subfloccosa</i> subsp. <i>lanata</i>																	
<i>Eriachne helmsii</i>																	
<i>Eriachne mucronata</i> (arid form) (MET 12 736)																	
<i>Eriachne mucronata</i> (desert form)																	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>																	
<i>Erodium aureum</i>																	
<i>Erodium carolinianum</i>																	

Appendix J Phase 2 species by site matrix

	S161	S103	S205	S12	S11	S132	S69	S68	S35	S236	S130	S106	S175	S136	S162	S210	S33
<i>Erodium cygnorum</i>																	
<i>Eucalyptus concinna</i>	1		2				2	2	2	1							
<i>Eucalyptus drummondii</i>																	
<i>Eucalyptus ebbanoensis subsp. glauciramula</i>																	
<i>Eucalyptus effusa</i>																	
<i>Eucalyptus eremicola subsp. eremicola</i>																	
<i>Eucalyptus ewartiana</i>															2		
<i>Eucalyptus gongylocarpa</i>					1	2	1	2	1	3				1	1		
<i>Eucalyptus gracilis</i>																	
<i>Eucalyptus horistes</i>																	
<i>Eucalyptus leptopoda subsp. elevata</i>											2						
<i>Eucalyptus oldfieldii</i>																	
<i>Eucalyptus oleosa subsp. oleosa</i>									2								
<i>Eucalyptus socialis</i>																	
<i>Eucalyptus socialis subsp. victoriensis</i>																	
<i>Eucalyptus sp. (?horistes)</i>																	
<i>Eucalyptus trivalva</i>	3	2	3														
<i>Eucalyptus youngiana</i>				2		2	2	2				2				2	
<i>Euphorbia drummondii</i>																	
<i>Euphorbia tannensis ssp. eremophila (Panorama form)</i>																	
<i>Euphorbia tannensis subsp. eremophila</i>																	
<i>Fimbristylis dichotoma</i>																	
<i>Frankenia cinerea</i>																	
<i>Frankenia fecunda</i>																	
<i>Glischrocaryon aureum</i>														1			
<i>Gompholobium gompholobioides</i>																	
<i>Goodenia elderi</i>																	
<i>Goodenia glabra</i>																	
<i>Goodenia scaevolina</i>																	
<i>Goodenia sp.</i>																	
<i>Goodenia triodiophila</i>																	
<i>Goodenia xanthosperma</i>							1										
<i>Grevillea acacioides</i>																	
<i>Grevillea didymobotrya subsp. didymobotrya</i>													1				
<i>Grevillea juncifolia</i>												1					
<i>Grevillea juncifolia subsp. temulenta</i>				2				1								1	
<i>Grevillea nematophylla subsp. planicosta</i>							1							1			2
<i>Grevillea sarissa</i>																	

Appendix J Phase 2 species by site matrix

	S161	S103	S205	S12	S11	S132	S69	S68	S35	S236	S130	S106	S175	S136	S162	S210	S33
<i>Grevillea stenobotrya</i>					1									1	3		
<i>Gyrostemon ramulosus</i>														1		1	
<i>Hakea francisiana</i>								1		1							
<i>Hakea lorea</i> subsp. <i>lorea</i>	1																
<i>Hakea rhombales</i>																	
<i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i>			1														
<i>Haloragis gossei</i>																	
<i>Halosarcia</i> ? aff. <i>undulata</i>																	
<i>Halosarcia halocnemoides</i>																	
<i>Halosarcia indica</i> subsp. <i>bidens</i>																	
<i>Halosarcia pruinosa</i>																	
<i>Hannafordia bissillii</i> subsp. <i>bissillii</i>				1	1	2	1							1	1		
<i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i>					1												1
<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>													1	1	1		
<i>Indigofera georgei</i>																	
<i>Isotoma petraea</i>																	
<i>Jacksonia arida</i>																	
<i>Jasminum calcarium</i>																	
<i>Jasminum didymum</i> subsp. <i>lineare</i>																	
<i>Jasminum</i> sp.																	
<i>Keraudrenia velutina</i> subsp. <i>elliptica</i>	2					1		1									
<i>Lechenaultia striata</i>														1			
<i>Leiocarpa semicalva</i> subsp. <i>semicalva</i>																	
<i>Lepidium phlebopetalum</i>																	
<i>Lepidium platypetalum</i>																	
<i>Lepidobolus deserti</i>													1	1		2	
<i>Leptosema chambersii</i>	3																1
<i>Leptospermum fastigiatum</i>				1	1						1						1
<i>Logania nuda</i>																	
<i>Lomandra leucocephala</i> subsp. <i>robusta</i>				1	2	1				2			1	1	2	1	1
<i>Lysiana murrayi</i>																	
<i>Maireana</i> ? <i>georgei</i>																	
<i>Maireana brevifolia</i>																	
<i>Maireana glomerifolia</i>																	
<i>Maireana integra</i>																	
<i>Maireana pentatropis</i>																	
<i>Maireana pyramidata</i>																	
<i>Maireana sedifolia</i>																	

Appendix J Phase 2 species by site matrix

	S161	S103	S205	S12	S11	S132	S69	S68	S35	S236	S130	S106	S175	S136	S162	S210	S33
<i>Maireana</i> sp.																	
<i>Maireana</i> sp.1																	
<i>Maireana</i> sp.2																	
<i>Maireana tomentosa</i>																	
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>																	
<i>Maireana trichoptera</i>																	
<i>Maireana triptera</i>																	
<i>Maireana turbinata</i>																	
<i>Maireana villosa</i>																	
<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)														1			
<i>Marsdenia australis</i>																	
<i>Marsilea hirsuta</i>																	
<i>Melaleuca</i> aff. <i>leiocarpa</i>																	
<i>Melaleuca interioris</i>																	
<i>Melaleuca leiocarpa</i>																	
<i>Melaleuca zeteticorum</i>																	
<i>Microcorys macrediana</i>																	
<i>Micromyrtus obovata</i>																	
<i>Micromyrtus stenocalyx</i>										3				1			
<i>Minuria</i> sp.																	
<i>Minuria tridens</i>																	
<i>Mirbelia rhagodioides</i>																	
<i>Monachather paradoxus</i>													1				
<i>Monotaxis luteiflora</i>																	
<i>Muehlenbeckia florulenta</i>																	1
<i>Murchisonia volubilis</i>																	
<i>Myoporum platycarpum</i>																	
<i>Newcastelia hexarrhena</i>														1	2	3	
<i>Nicotiana rosulata</i>																	
<i>Nicotiana</i> sp.																	
<i>Olearia arida</i>								1									
<i>Olearia decurrens</i>																	
<i>Olearia exiguifolia</i>																	
<i>Olearia muelleri</i>																	
<i>Olearia stuartii</i>																	
<i>Olearia subspicata</i>																	
<i>Otion simplicifolium</i>																	
<i>Paspalidium basicladium</i>																	

Appendix J Phase 2 species by site matrix

	S161	S103	S205	S12	S11	S132	S69	S68	S35	S236	S130	S106	S175	S136	S162	S210	S33
<i>Persoonia coriacea</i>																	
<i>Petalostylis cassioides</i>																	
<i>Phebalium canaliculatum</i>																	
<i>Pimelea microcephala</i> subsp. <i>microcephala</i>																	
<i>Pittosporum angustifolium</i>										1							
<i>Pityrodia loricata</i>				3	2				1				2			1	2
<i>Podolepis capillaris</i>																	
<i>Pomax</i> sp. desert (A.S. George 11968)					1								1	1	1		1
<i>Prostanthera althoferi</i>								1									
<i>Prostanthera sericea</i>																	
<i>Psydrax attenuata</i>																	
<i>Psydrax latifolia</i>																	
<i>Psydrax suaveolens</i>																	
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>																	
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>																	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>																	
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>																	
<i>Ptilotus sessilifolius</i>	1																
<i>Rhagodia eremaea</i>																	
<i>Rhodanthe chlorocephala</i> subsp. <i>rosea</i>																	
<i>Rhodanthe maryonii</i>																	
<i>Rhyncharrhena linearis</i>																	
<i>Salicornia australis</i>																	
<i>Salsola australis</i>																	
<i>Santalum acuminatum</i>											1						
<i>Santalum lanceolatum</i>																	
<i>Santalum spicatum</i>																	
<i>Scaevola basedowii</i>				2	1				1					2	1	2	2
<i>Scaevola parvibarbata</i>																	
<i>Scaevola parvifolia</i>				1				1									
<i>Scaevola spinescens</i>		1															
<i>Sclerolaena convexula</i>																	
<i>Sclerolaena densiflora</i>																	
<i>Sclerolaena deserticola</i>																	
<i>Sclerolaena diacantha</i>																	
<i>Sclerolaena eriacantha</i>																	
<i>Sclerolaena eurotioides</i>																	
<i>Sclerolaena obliquicuspis</i>																	

Appendix J Phase 2 species by site matrix

	S161	S103	S205	S12	S11	S132	S69	S68	S35	S236	S130	S106	S175	S136	S162	S210	S33
<i>Sclerolaena parviflora</i>																	
<i>Sclerolaena patenticuspis</i>																	
<i>Sclerolaena symoniana</i>																	
<i>Senecio pinnatifolius</i>																	
<i>Senna artemisioides subsp. artemisioides</i>										1							
<i>Senna artemisioides subsp. filifolia</i>																	
<i>Senna artemisioides subsp. petiolaris</i>	1							1									
<i>Senna artemisioides subsp. x artemisioides</i>																	
<i>Senna glaucifolia</i>																	
<i>Senna pleurocarpa var. pleurocarpa</i>	1																
<i>Senna sp. Billabong (J.D. Alonzo 721)</i>																	
<i>Sida arenicola</i>																	
<i>Sida atrovirens</i>																	
<i>Sida calyxhymenia</i>																	
<i>Sida chrysocalyx</i>																	
<i>Sida fibulifera</i>																	
<i>Sida phaeotricha</i>																	
<i>Sida sp.</i>																	
<i>Sida spodochroma</i>																	
<i>Solanum centrale</i>																	
<i>Solanum ellipticum</i>																	
<i>Solanum ferocissimum</i>																	
<i>Solanum lasiophyllum</i>																	
<i>Solanum nummularium</i>																	
<i>Solanum orbiculatum subsp. orbiculatum</i>								1									
<i>Solanum plicatile</i>												2					
<i>Sonchus oleraceus</i>																	
<i>Spartothamnella teucriflora</i>																	
<i>Spergularia rubra</i>																	
<i>Stackhousia megaloptera</i>																	1
<i>Stylidium induratum</i>																	
<i>Stylidium limbatum</i>																	
<i>Swainsona affinis</i>																	
<i>Swainsona formosa</i>																	
<i>Templetonia aculeata</i>																	
<i>Thryptomene biseriata</i>				2						2		3	2	1	1	1	2
<i>Thyridolepis xerophila</i>																	
<i>Thysanotus manglesianus</i>																	

Appendix J Phase 2 species by site matrix

	S161	S103	S205	S12	S11	S132	S69	S68	S35	S236	S130	S106	S175	S136	S162	S210	S33
<i>Triodia basedowii</i>																2	
<i>Triodia desertorum</i>	3	3	3	3	2	4	3	4	3	2	3	2	3	1	2		3
<i>Triodia mollis</i>																	
<i>Triodia scariosa</i>																	
<i>Triraphis mollis</i>																	
<i>Velleia glabrata</i>																	
<i>Velleia hispida</i>																	
<i>Vittadinia sp.</i>																	
<i>Vittadinia sulcata</i>																	
<i>Westringia cephalantha</i>																	
<i>Westringia rigida</i>			2														
<i>Wilsonia sp.</i>																	
<i>Xanthorrhoea thorntonii</i>													1				
<i>Zygophyllum apiculatum</i>																	
<i>Zygophyllum aurantiacum</i>																	
<i>Zygophyllum eremaeum</i>																	
<i>Zygophyllum fruticosum</i>																	
<i>Zygophyllum sp.</i>																	

Appendix J Phase 2 species by site matrix

	S152	S166	S176	S70	S67	S163	S212	S126	S144	S142	S20	S24	S150	S156	S157	S173	S146	S145	S171	
<i>Abutilon otocarpum</i>																				
<i>Abutilon oxycarpum subsp. prostratum</i>																				
<i>Abutilon sp.</i>																				
<i>Acacia acanthoclada</i>									1											
<i>Acacia acanthoclada subsp. acanthoclada</i>	1				2	1	2								2					
<i>Acacia aff. sorophylla</i>										2							1			
<i>Acacia aneura</i>																				
<i>Acacia aneura x ayersiana</i>																				
<i>Acacia ayersiana</i>																				
<i>Acacia burkittii</i>																				
<i>Acacia camptoclada</i>		1																		
<i>Acacia colletioides</i>												1								
<i>Acacia coolgardiensis subsp. coolgardiensis</i>																				
<i>Acacia desertorum var. desertorum</i>																				
<i>Acacia eremophila numerous-nerved variant (A.S. George 119)</i>																				
<i>Acacia exocarpoides</i>																				
<i>Acacia gracillima</i>																				
<i>Acacia helmsiana</i>															1					
<i>Acacia hemiteles</i>																				
<i>Acacia heteroneura var. jutsonii</i>	1						1		1				3		3				1	
<i>Acacia jamesiana</i>		1						1	1											
<i>Acacia kempeana</i>						1	2									1				
<i>Acacia ligulata</i>						1	1	1	1			1	2	1	2	3				
<i>Acacia murrayana</i>																				
<i>Acacia nyssophylla</i>																				
<i>Acacia oswaldii</i>																				
<i>Acacia prainii</i>							1												1	1
<i>Acacia quadrimarginea</i>																				
<i>Acacia ramulosa var. ramulosa</i>															1					
<i>Acacia rigens</i>																				
<i>Acacia sibilans</i>																				
<i>Acacia sibina</i>																				
<i>Acacia sibirica</i>																				
<i>Acacia tetragonophylla</i>																				
<i>Adriana urticoides var. hookeri</i>						1						2								
<i>Alectryon oleifolius subsp. canescens</i>																				
<i>Allocasuarina acutivalvis</i>							2									3				
<i>Allocasuarina helmsii</i>																				

Appendix J Phase 2 species by site matrix

	S152	S166	S176	S70	S67	S163	S212	S126	S144	S142	S20	S24	S150	S156	S157	S173	S146	S145	S171
<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>			1				1							1	2				
<i>Alyogyne pinoniana</i>														1				1	
<i>Alyxia buxifolia</i>													1	1					
<i>Amphipogon caricinus</i> var. <i>caricinus</i>				1															
<i>Amyema fitzgeraldii</i>																			
<i>Anthotroche pannosa</i>	3	2	2	2	2	2	3	2	1	2	2	3	1	3	1				
<i>Aristida contorta</i>			1		1	1	1												
<i>Aristida holathera</i> var. <i>holathera</i>	1							1					1						
<i>Aristida</i> sp.																			
<i>Asteridea chaetopoda</i>																			
<i>Atriplex nummularia</i>																			
<i>Atriplex vesicaria</i>																			
<i>Austrostipa platychaeta</i>																			
<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)																			
<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963)																			
<i>Bertya dimerostigma</i>	1			1		1		1	2				2						
<i>Boerhavia coccinea</i>																			
<i>Bonamia rosea</i>				1															
<i>Brachyscome</i> sp.																			
<i>Bulbostylis barbata</i>																			
<i>Caesia</i> sp.																			
<i>Caesia</i> sp. Great Victoria Desert p.n.																			
<i>Calandrinia</i> sp.																			
<i>Callitris columellaris</i>							1	1	2	2	1				1	3			3
<i>Callitris preissii</i>	1			1	1								1	2					
<i>Callitris</i> sp.																			
<i>Calothamnus gilesii</i>																			
<i>Calotis hispidula</i>																			
<i>Calotis multicaulis</i>																			
<i>Calytrix</i> sp.																			
<i>Casuarina pauper</i>																			
<i>Caustis dioica</i>																			
<i>Centaurium spicatum</i>																			
<i>Centipeda pleiocephala</i>																			
<i>Centrolepis eremica</i>																			
<i>Cephalopterum drummondii</i>																			
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>																			
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>																			

Appendix J Phase 2 species by site matrix

	S152	S166	S176	S70	S67	S163	S212	S126	S144	S142	S20	S24	S150	S156	S157	S173	S146	S145	S171
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>																			
<i>Chenopodium gaudichaudianum</i>																			
<i>Chenopodium melanocarpum</i> forma <i>melanocarpum</i>																			
<i>Chenopodium nitrariaceum</i>																			
<i>Chrysocephalum apiculatum</i>																			
<i>Chrysocephalum pterochaetum</i>																			
<i>Chrysocephalum puteale</i>	1	2	2	2	2	1		1		2				1					
<i>Codonocarpus cotinifolius</i>							1	1	1										1
<i>Commersonia melanopetala</i>					1		1		1						2	1			
<i>Conospermum toddii</i>																			
<i>Cratystylis subspinescens</i>																			
<i>Cryptandra distigma</i>														1	3	2			
<i>Cymbopogon obtectus</i>																			
<i>Dactyloctenium radulans</i>																			
<i>Dampiera dentata</i>																			
<i>Dampiera eriantha</i>	1	1			1	1	2												
<i>Dampiera ramosa</i>										1									
<i>Dampiera roycei</i>																			
<i>Dampiera stenophylla</i>										1									
<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i>																		2	2
<i>Daviesia gracilis</i>																			
<i>Daviesia grahamii</i>	1	1	1	2	1	1													
<i>Daviesia purpurascens</i>																			3
<i>Dianella revoluta</i> var. <i>divaricata</i>																			
<i>Dicrastylis brunnea</i>																			
<i>Dicrastylis georgei</i>																			
<i>Dicrastylis nicholasii</i>			1	1							3								
<i>Dicrastylis</i> sp.								1											
<i>Dicrastylis</i> sp. <i>Cundeelee</i> (D.J. Pearson 101)							2												
<i>Digitaria brownii</i>																			
<i>Dodonaea lobulata</i>																			
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>																			
<i>Dodonaea rigida</i>																			
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>											1								
<i>Duboisia hopwoodii</i>			2	1						1	1								
<i>Dysphania kalpari</i>																			
<i>Eleocharis pallens</i>																			
<i>Enekbatus eremaeus</i>																			

Appendix J Phase 2 species by site matrix

	S152	S166	S176	S70	S67	S163	S212	S126	S144	S142	S20	S24	S150	S156	S157	S173	S146	S145	S171
<i>Enneapogon caeruleus</i> var. <i>caeruleus</i>																			
<i>Enneapogon polyphyllus</i>																			
<i>Enteropogon ramosus</i>																			
<i>Eragrostis australasica</i>																			
<i>Eragrostis dielsii</i>																			
<i>Eragrostis eriopoda</i>																			
<i>Eragrostis falcata</i>																			
<i>Eragrostis laniflora</i>																			
<i>Eragrostis pergracilis</i>																			
<i>Eragrostis setifolia</i>																			
<i>Eragrostis xerophila</i>																			
<i>Eremophila alternifolia</i>																			
<i>Eremophila decipiens</i>																			
<i>Eremophila exilis</i>																			
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>																			
<i>Eremophila fraseri</i>																			
<i>Eremophila georgei</i>																			
<i>Eremophila gilesii</i> subsp. <i>gilesii</i>																			
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>																			
<i>Eremophila glabra</i> subsp. <i>glabra</i>															1				
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>																			
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>																			
<i>Eremophila longifolia</i>																			
<i>Eremophila miniata</i>																			
<i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>																			1
<i>Eremophila platycalyx</i> subsp. <i>platycalyx</i>																			
<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>								1						2	2	1			1
<i>Eremophila punctata</i>																			
<i>Eremophila scoparia</i>																			
<i>Eremophila serrulata</i>																			
<i>Eremophila</i> sp.																			
<i>Eremophila subfloccosa</i> subsp. <i>lanata</i>																		1	
<i>Eriachne helmsii</i>											1								
<i>Eriachne mucronata</i> (arid form) (MET 12 736)																			
<i>Eriachne mucronata</i> (desert form)																			
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>																			
<i>Erodium aureum</i>																			
<i>Erodium carolinianum</i>																			

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	S152	S166	S176	S70	S67	S163	S212	S126	S144	S142	S20	S24	S150	S156	S157	S173	S146	S145	S171
<i>Erodium cygnorum</i>																			
<i>Eucalyptus concinna</i>													2	2		3	3	3	3
<i>Eucalyptus drummondii</i>																			
<i>Eucalyptus ebbanoensis subsp. glauciramula</i>																			
<i>Eucalyptus effusa</i>																			
<i>Eucalyptus eremicola subsp. eremicola</i>																			
<i>Eucalyptus ewartiana</i>																			
<i>Eucalyptus gongylocarpa</i>					1	2	2		1				2	1	1	2			
<i>Eucalyptus gracilis</i>																			
<i>Eucalyptus horistes</i>																			
<i>Eucalyptus leptopoda subsp. elevata</i>																			
<i>Eucalyptus oldfieldii</i>																			
<i>Eucalyptus oleosa subsp. oleosa</i>																	1		
<i>Eucalyptus socialis</i>																			
<i>Eucalyptus socialis subsp. victoriensis</i>																			
<i>Eucalyptus sp. (?horistes)</i>																		2	2
<i>Eucalyptus trivalva</i>																		2	2
<i>Eucalyptus youngiana</i>			1				2								2				
<i>Euphorbia drummondii</i>																			
<i>Euphorbia tannensis ssp. eremophila (Panorama form)</i>																			
<i>Euphorbia tannensis subsp. eremophila</i>																			
<i>Fimbristylis dichotoma</i>																			
<i>Frankenia cinerea</i>																			
<i>Frankenia fecunda</i>																			
<i>Glischrocaryon aureum</i>						1			1			1							
<i>Gompholobium gompholobioides</i>								1											
<i>Goodenia elderi</i>																			
<i>Goodenia glabra</i>				1															
<i>Goodenia scaevolina</i>																			
<i>Goodenia sp.</i>																			
<i>Goodenia triodiophila</i>																			
<i>Goodenia xanthosperma</i>																			
<i>Grevillea acacioides</i>			2													3			
<i>Grevillea didymobotrya subsp. didymobotrya</i>				1			1												
<i>Grevillea juncifolia</i>																			
<i>Grevillea juncifolia subsp. temulenta</i>	1		1	1		1	1		1	1		1	2						
<i>Grevillea nematophylla subsp. planicosta</i>																			1
<i>Grevillea sarissa</i>																			

Appendix J Phase 2 species by site matrix

	S152	S166	S176	S70	S67	S163	S212	S126	S144	S142	S20	S24	S150	S156	S157	S173	S146	S145	S171
<i>Grevillea stenobotrya</i>					3						2					1			
<i>Gyrostemon ramulosus</i>											1	1							
<i>Hakea francisiana</i>						1													
<i>Hakea lorea</i> subsp. <i>lorea</i>																	2		
<i>Hakea rhombales</i>																	1		
<i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i>										1						1	1	1	
<i>Haloragis gossei</i>																			
<i>Halosarcia</i> ? <i>aff. undulata</i>																			
<i>Halosarcia halocnemoides</i>																			
<i>Halosarcia indica</i> subsp. <i>bidens</i>																			
<i>Halosarcia pruinosa</i>																			
<i>Hannafordia bissillii</i> subsp. <i>bissillii</i>					1						1	2		1	1				
<i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i>											1	1							
<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>						2													
<i>Indigofera georgei</i>																			
<i>Isotoma petraea</i>																			
<i>Jacksonia arida</i>						2													
<i>Jasminum calcarium</i>																			
<i>Jasminum didymum</i> subsp. <i>lineare</i>																			
<i>Jasminum</i> sp.																			
<i>Keraudrenia velutina</i> subsp. <i>elliptica</i>									1										
<i>Lechenaultia striata</i>			1																
<i>Leiocarpa semicalva</i> subsp. <i>semicalva</i>																			
<i>Lepidium phlebopetalum</i>																			
<i>Lepidium platypetalum</i>																			
<i>Lepidobolus deserti</i>			1	2	2	1		1	1						1				
<i>Leptosema chambersii</i>			1	1									3						
<i>Leptospermum fastigiatum</i>									1										
<i>Logania nuda</i>					1			1	2										
<i>Lomandra leucocephala</i> subsp. <i>robusta</i>	1			2	2	2		2											
<i>Lysiana murrayi</i>																			
<i>Maireana</i> ? <i>georgei</i>																			
<i>Maireana brevifolia</i>																			
<i>Maireana glomerifolia</i>																			
<i>Maireana integra</i>																			
<i>Maireana pentatropis</i>																			
<i>Maireana pyramidata</i>																			
<i>Maireana sedifolia</i>																			

Appendix J Phase 2 species by site matrix

	S152	S166	S176	S70	S67	S163	S212	S126	S144	S142	S20	S24	S150	S156	S157	S173	S146	S145	S171
<i>Maireana</i> sp.																			
<i>Maireana</i> sp.1																			
<i>Maireana</i> sp.2																			
<i>Maireana tomentosa</i>																			
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>																			
<i>Maireana trichoptera</i>																			
<i>Maireana triptera</i>																			
<i>Maireana turbinata</i>																			
<i>Maireana villosa</i>																			
<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)																			
<i>Marsdenia australis</i>																			
<i>Marsilea hirsuta</i>																			
<i>Melaleuca</i> aff. <i>leiocarpa</i>																			
<i>Melaleuca interioris</i>																			
<i>Melaleuca leiocarpa</i>																			
<i>Melaleuca zeteticorum</i>																			
<i>Microcorys macrediana</i>			2			1							1		1				
<i>Micromyrtus obovata</i>																			
<i>Micromyrtus stenocalyx</i>						1													
<i>Minuria</i> sp.																			
<i>Minuria tridens</i>																			
<i>Mirbelia rhagodioides</i>																			
<i>Monachather paradoxus</i>																			
<i>Monotaxis luteiflora</i>																			
<i>Muehlenbeckia florulenta</i>																			
<i>Murchisonia volubilis</i>													1						
<i>Myoporum platycarpum</i>																			
<i>Newcastelia hexarrhena</i>	1	1							1										
<i>Nicotiana rosulata</i>																			
<i>Nicotiana</i> sp.																			
<i>Olearia arida</i>																			
<i>Olearia decurrens</i>																			
<i>Olearia exiguiifolia</i>																			
<i>Olearia muelleri</i>																			
<i>Olearia stuartii</i>																			
<i>Olearia subspicata</i>																			
<i>Otion simplicifolium</i>																			
<i>Paspalidium basicladium</i>																			

Appendix J Phase 2 species by site matrix

	S152	S166	S176	S70	S67	S163	S212	S126	S144	S142	S20	S24	S150	S156	S157	S173	S146	S145	S171
<i>Persoonia coriacea</i>							1	1											
<i>Petalostylis cassioides</i>																			
<i>Phebalium canaliculatum</i>																			
<i>Pimelea microcephala</i> subsp. <i>microcephala</i>																			
<i>Pittosporum angustifolium</i>																			
<i>Pityrodia loricata</i>		3	1	1	1	1	2	2	2										
<i>Podolepis capillaris</i>																			
<i>Pomax</i> sp. desert (A.S. George 11968)		1			1	1													
<i>Prostanthera althoferi</i>													2						
<i>Prostanthera sericea</i>																			
<i>Psydrax attenuata</i>																			
<i>Psydrax latifolia</i>																			
<i>Psydrax suaveolens</i>																			
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>																			
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>																			
<i>Ptilotus obovatus</i> var. <i>obovatus</i>																			
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>																			
<i>Ptilotus sessilifolius</i>																			
<i>Rhagodia eremaea</i>												1							
<i>Rhodanthe chlorocephala</i> subsp. <i>rosea</i>																			
<i>Rhodanthe maryonii</i>																			
<i>Rhyncharrhena linearis</i>																			
<i>Salicornia australis</i>																			
<i>Salsola australis</i>																			
<i>Santalum acuminatum</i>																			
<i>Santalum lanceolatum</i>																			
<i>Santalum spicatum</i>																			
<i>Scaevola basedowii</i>				2	2		2	1			2								
<i>Scaevola parvibarbata</i>	1																		
<i>Scaevola parvifolia</i>																			
<i>Scaevola spinescens</i>						1													
<i>Sclerolaena convexula</i>																			
<i>Sclerolaena densiflora</i>																			
<i>Sclerolaena deserticola</i>																			
<i>Sclerolaena diacantha</i>																			
<i>Sclerolaena eriacantha</i>																			
<i>Sclerolaena eurotioides</i>																			
<i>Sclerolaena obliquicuspis</i>																			

Appendix J Phase 2 species by site matrix

	S152	S166	S176	S70	S67	S163	S212	S126	S144	S142	S20	S24	S150	S156	S157	S173	S146	S145	S171
<i>Sclerolaena parviflora</i>																			
<i>Sclerolaena patenticuspis</i>																			
<i>Sclerolaena symoniana</i>																			
<i>Senecio pinnatifolius</i>																			
<i>Senna artemisioides subsp. artemisioides</i>																			
<i>Senna artemisioides subsp. filifolia</i>																			
<i>Senna artemisioides subsp. petiolaris</i>																	1		
<i>Senna artemisioides subsp. x artemisioides</i>																			
<i>Senna glaucifolia</i>																			
<i>Senna pleurocarpa var. pleurocarpa</i>																		1	
<i>Senna sp. Billabong (J.D. Alonzo 721)</i>																			
<i>Sida arenicola</i>																			
<i>Sida atrovirens</i>																			
<i>Sida calyxhymenia</i>																			
<i>Sida chrysocalyx</i>																			
<i>Sida fibulifera</i>																			
<i>Sida phaeotricha</i>																			
<i>Sida sp.</i>																			
<i>Sida spodochroma</i>																			
<i>Solanum centrale</i>																			
<i>Solanum ellipticum</i>																			
<i>Solanum ferocissimum</i>																			
<i>Solanum lasiophyllum</i>																			
<i>Solanum nummularium</i>																			
<i>Solanum orbiculatum subsp. orbiculatum</i>												1							
<i>Solanum plicatile</i>																	1		
<i>Sonchus oleraceus</i>																			
<i>Spartothamnella teucriflora</i>																			
<i>Spergularia rubra</i>																			
<i>Stackhousia megaloptera</i>	1																		
<i>Stylidium induratum</i>													1						
<i>Stylidium limbatum</i>		1																	
<i>Swainsona affinis</i>																			
<i>Swainsona formosa</i>																			
<i>Templetonia aculeata</i>																			1
<i>Thryptomene biseriata</i>	1	1	1	2	1	1	1	1	2	3	1		1	1					
<i>Thyridolepis xerophila</i>																			
<i>Thysanotus manglesianus</i>																			

Appendix J Phase 2 species by site matrix

	S152	S166	S176	S70	S67	S163	S212	S126	S144	S142	S20	S24	S150	S156	S157	S173	S146	S145	S171
<i>Triodia basedowii</i>	2		2	2	2		2	2	2	1									
<i>Triodia desertorum</i>		2				2		1			3	4	3	4					
<i>Triodia mollis</i>																			
<i>Triodia scariosa</i>																3	4	3	3
<i>Triraphis mollis</i>																			
<i>Velleia glabrata</i>																			
<i>Velleia hispida</i>																			
<i>Vittadinia sp.</i>																			
<i>Vittadinia sulcata</i>																			
<i>Westringia cephalantha</i>																			
<i>Westringia rigida</i>														2		1			1
<i>Wilsonia sp.</i>																			
<i>Xanthorrhoea thorntonii</i>															2				
<i>Zygophyllum apiculatum</i>																			
<i>Zygophyllum aurantiacum</i>																			
<i>Zygophyllum eremaeum</i>																			
<i>Zygophyllum fruticosum</i>																			
<i>Zygophyllum sp.</i>																			

Appendix J Phase 2 species by site matrix

	S202	S207	S201	S172	S84	S185	S229	S50	S184	S56	S159	S155	S87	S82	S187	S189
<i>Abutilon otocarpum</i>												1				
<i>Abutilon oxycarpum subsp. prostratum</i>																
<i>Abutilon sp.</i>																
<i>Acacia acanthoclada</i>																
<i>Acacia acanthoclada subsp. acanthoclada</i>																
<i>Acacia aff. sorophylla</i>																
<i>Acacia aneura</i>	3	1	1								4	3		1		
<i>Acacia aneura x ayersiana</i>																
<i>Acacia ayersiana</i>																
<i>Acacia burkittii</i>		1	2												1	
<i>Acacia camptoclada</i>																
<i>Acacia colletioides</i>																
<i>Acacia coolgardiensis subsp. coolgardiensis</i>																
<i>Acacia desertorum var. desertorum</i>																
<i>Acacia eremophila numerous-nerved variant (A.S. George 119)</i>																
<i>Acacia exocarpoides</i>																
<i>Acacia gracillima</i>																
<i>Acacia helmsiana</i>																
<i>Acacia hemiteles</i>																
<i>Acacia heteroneura var. jutsonii</i>																
<i>Acacia jamesiana</i>																
<i>Acacia kempeana</i>											1					
<i>Acacia ligulata</i>	1	1														
<i>Acacia murrayana</i>																
<i>Acacia nyssophylla</i>		1	1	1	1		1									
<i>Acacia oswaldii</i>																
<i>Acacia prainii</i>																
<i>Acacia quadrimarginea</i>																
<i>Acacia ramulosa var. ramulosa</i>											2	1				
<i>Acacia rigens</i>													1			
<i>Acacia sibilans</i>																
<i>Acacia sibina</i>																
<i>Acacia sibirica</i>												3	1			
<i>Acacia tetragonophylla</i>	2	1	2													
<i>Adriana urticoides var. hookeri</i>																
<i>Alectryon oleifolius subsp. canescens</i>								1							2	
<i>Allocasuarina acutivalvis</i>																
<i>Allocasuarina helmsii</i>		1														

Appendix J Phase 2 species by site matrix

	S202	S207	S201	S172	S84	S185	S229	S50	S184	S56	S159	S155	S87	S82	S187	S189
<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>																
<i>Alyogyne pinoniana</i>																
<i>Alyxia buxifolia</i>																
<i>Amphipogon caricinus</i> var. <i>caricinus</i>																
<i>Amyema fitzgeraldii</i>																
<i>Anthotroche pannosa</i>																
<i>Aristida contorta</i>														1		
<i>Aristida holathera</i> var. <i>holathera</i>																2
<i>Aristida</i> sp.																
<i>Asteridea chaetopoda</i>																
<i>Atriplex nummularia</i>						1	3									
<i>Atriplex vesicaria</i>													1	3	1	1
<i>Austrostipa platychaeta</i>								1								
<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)								3								
<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963)																
<i>Bertya dimerostigma</i>	1															
<i>Boerhavia coccinea</i>																
<i>Bonamia rosea</i>																
<i>Brachyscome</i> sp.																
<i>Bulbostylis barbata</i>																
<i>Caesia</i> sp.																
<i>Caesia</i> sp. Great Victoria Desert p.n.																
<i>Calandrinia</i> sp.																
<i>Callitris columellaris</i>																
<i>Callitris preissii</i>						2	2									
<i>Callitris</i> sp.																
<i>Calothamnus gilesii</i>																
<i>Calotis hispidula</i>																
<i>Calotis multicaulis</i>																
<i>Calytrix</i> sp.																
<i>Casuarina pauper</i>															2	2
<i>Caustis dioica</i>																
<i>Centaurium spicatum</i>																
<i>Centipeda pleiocephala</i>										2						
<i>Centrolepis eremica</i>																
<i>Cephalopterum drummondii</i>																
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>																
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>																

Appendix J Phase 2 species by site matrix

	S202	S207	S201	S172	S84	S185	S229	S50	S184	S56	S159	S155	S87	S82	S187	S189
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>													2		1	
<i>Chenopodium gaudichaudianum</i>																
<i>Chenopodium melanocarpum</i> forma <i>melanocarpum</i>																
<i>Chenopodium nitrariaceum</i>										3						
<i>Chrysocephalum apiculatum</i>																
<i>Chrysocephalum pterochaetum</i>																
<i>Chrysocephalum puteale</i>																
<i>Codonocarpus cotinifolius</i>	1															
<i>Commersonia melanopetala</i>																
<i>Conospermum toddii</i>																
<i>Cratystylis subspinescens</i>																
<i>Cryptandra distigma</i>																
<i>Cymbopogon obtectus</i>																
<i>Dactyloctenium radulans</i>																
<i>Dampiera dentata</i>																
<i>Dampiera eriantha</i>																
<i>Dampiera ramosa</i>																
<i>Dampiera roycei</i>																
<i>Dampiera stenophylla</i>																
<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i>						1	1									
<i>Daviesia gracilis</i>																
<i>Daviesia grahamii</i>																
<i>Daviesia purpurascens</i>																
<i>Dianella revoluta</i> var. <i>divaricata</i>																
<i>Dicrastylis brunnea</i>																
<i>Dicrastylis georgei</i>											1					
<i>Dicrastylis nicholasii</i>	1															
<i>Dicrastylis</i> sp.																
<i>Dicrastylis</i> sp. <i>Cundeelee</i> (D.J. Pearson 101)																
<i>Digitaria brownii</i>																
<i>Dodonaea lobulata</i>																
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>																
<i>Dodonaea rigida</i>																
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>							3						1	2	2	
<i>Duboisia hopwoodii</i>																
<i>Dysphania kalpari</i>																
<i>Eleocharis pallens</i>										2						
<i>Enekbatus eremaeus</i>																

Appendix J Phase 2 species by site matrix

	S202	S207	S201	S172	S84	S185	S229	S50	S184	S56	S159	S155	S87	S82	S187	S189
<i>Enneapogon caeruleus</i> var. <i>caeruleus</i>				1	2										1	
<i>Enneapogon polyphyllus</i>															4	
<i>Enteropogon ramosus</i>													2	3	3	
<i>Eragrostis australasica</i>										4						
<i>Eragrostis dielsii</i>					1											
<i>Eragrostis eriopoda</i>																
<i>Eragrostis falcata</i>																
<i>Eragrostis laniflora</i>																
<i>Eragrostis pergracilis</i>							3	2	2							
<i>Eragrostis setifolia</i>										2	1	3				
<i>Eragrostis xerophila</i>	2															
<i>Eremophila alternifolia</i>											2	2				
<i>Eremophila decipiens</i>																
<i>Eremophila exilis</i>																
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>																
<i>Eremophila fraseri</i>																
<i>Eremophila georgei</i>																
<i>Eremophila gilesii</i> subsp. <i>gilesii</i>																
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>																
<i>Eremophila glabra</i> subsp. <i>glabra</i>													1			2
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>																
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>																
<i>Eremophila longifolia</i>																
<i>Eremophila miniata</i>																
<i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>																
<i>Eremophila platycalyx</i> subsp. <i>platycalyx</i>																
<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>																
<i>Eremophila punctata</i>																
<i>Eremophila scoparia</i>			2	1			2									
<i>Eremophila serrulata</i>												1				
<i>Eremophila</i> sp.																
<i>Eremophila subfloccosa</i> subsp. <i>lanata</i>																
<i>Eriachne helmsii</i>																2
<i>Eriachne mucronata</i> (arid form) (MET 12 736)																
<i>Eriachne mucronata</i> (desert form)																
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>																
<i>Erodium aureum</i>																
<i>Erodium carolinianum</i>																

Appendix J Phase 2 species by site matrix

	S202	S207	S201	S172	S84	S185	S229	S50	S184	S56	S159	S155	S87	S82	S187	S189
<i>Erodium cygnorum</i>																
<i>Eucalyptus concinna</i>		3	3													
<i>Eucalyptus drummondii</i>																
<i>Eucalyptus ebbanoensis subsp. glauciramula</i>																
<i>Eucalyptus effusa</i>																3
<i>Eucalyptus eremicola subsp. eremicola</i>				1												
<i>Eucalyptus ewartiana</i>																
<i>Eucalyptus gongylocarpa</i>																
<i>Eucalyptus gracilis</i>								1								
<i>Eucalyptus horistes</i>							3									
<i>Eucalyptus leptopoda subsp. elevata</i>																
<i>Eucalyptus oldfieldii</i>																
<i>Eucalyptus oleosa subsp. oleosa</i>																
<i>Eucalyptus socialis</i>																
<i>Eucalyptus socialis subsp. victoriensis</i>																
<i>Eucalyptus sp. (?horistes)</i>	2															
<i>Eucalyptus trivalva</i>	2															
<i>Eucalyptus youngiana</i>																
<i>Euphorbia drummondii</i>				1	1											
<i>Euphorbia tannensis ssp. eremophila (Panorama form)</i>																
<i>Euphorbia tannensis subsp. eremophila</i>																
<i>Fimbristylis dichotoma</i>																
<i>Frankenia cinerea</i>																
<i>Frankenia fecunda</i>																
<i>Glischrocaryon aureum</i>																
<i>Gompholobium gompholobioides</i>																
<i>Goodenia elderi</i>																
<i>Goodenia glabra</i>																
<i>Goodenia scaevolina</i>																
<i>Goodenia sp.</i>																
<i>Goodenia triodiophila</i>																
<i>Goodenia xanthosperma</i>																
<i>Grevillea acacioides</i>																
<i>Grevillea didymobotrya subsp. didymobotrya</i>																
<i>Grevillea juncifolia</i>																
<i>Grevillea juncifolia subsp. temulenta</i>																
<i>Grevillea nematophylla subsp. planicosta</i>																
<i>Grevillea sarissa</i>						1										

Appendix J Phase 2 species by site matrix

	S202	S207	S201	S172	S84	S185	S229	S50	S184	S56	S159	S155	S87	S82	S187	S189
<i>Grevillea stenobotrya</i>																
<i>Gyrostemon ramulosus</i>																
<i>Hakea francisiana</i>																
<i>Hakea lorea</i> subsp. <i>lorea</i>																
<i>Hakea rhombales</i>															1	
<i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i>																
<i>Haloragis gossei</i>																
<i>Halosarcia</i> ? aff. <i>undulata</i>																
<i>Halosarcia halocnemoides</i>								1	3							
<i>Halosarcia indica</i> subsp. <i>bidens</i>																
<i>Halosarcia pruinosa</i>								4								
<i>Hannafordia bissillii</i> subsp. <i>bissillii</i>																
<i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i>																
<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>																
<i>Indigofera georgei</i>																
<i>Isotoma petraea</i>																
<i>Jacksonia arida</i>																
<i>Jasminum calcarium</i>																
<i>Jasminum didymum</i> subsp. <i>lineare</i>																
<i>Jasminum</i> sp.																
<i>Keraudrenia velutina</i> subsp. <i>elliptica</i>			1													
<i>Lechenaultia striata</i>																
<i>Leiocarpa semicalva</i> subsp. <i>semicalva</i>																
<i>Lepidium phlebopetalum</i>																
<i>Lepidium platypetalum</i>																
<i>Lepidobolus deserti</i>																
<i>Leptosema chambersii</i>																
<i>Leptospermum fastigiatum</i>																
<i>Logania nuda</i>																
<i>Lomandra leucocephala</i> subsp. <i>robusta</i>																
<i>Lysiana murrayi</i>																
<i>Maireana</i> ? <i>georgei</i>																
<i>Maireana brevifolia</i>																
<i>Maireana glomerifolia</i>																
<i>Maireana integra</i>																
<i>Maireana pentatropis</i>				1			1	1								
<i>Maireana pyramidata</i>																
<i>Maireana sedifolia</i>				1				1							1	

Appendix J Phase 2 species by site matrix

	S202	S207	S201	S172	S84	S185	S229	S50	S184	S56	S159	S155	S87	S82	S187	S189
<i>Maireana</i> sp.				1												
<i>Maireana</i> sp.1																
<i>Maireana</i> sp.2																
<i>Maireana tomentosa</i>														1		
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>																1
<i>Maireana trichoptera</i>																
<i>Maireana triptera</i>																
<i>Maireana turbinata</i>			1												1	
<i>Maireana villosa</i>													2			
<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)																
<i>Marsdenia australis</i>																
<i>Marsilea hirsuta</i>										3						
<i>Melaleuca</i> aff. <i>leiocarpa</i>																
<i>Melaleuca interioris</i>													4	4		
<i>Melaleuca leiocarpa</i>																
<i>Melaleuca zeteticorum</i>																
<i>Microcorys macrediana</i>																
<i>Micromyrtus obovata</i>																
<i>Micromyrtus stenocalyx</i>																
<i>Minuria</i> sp.																
<i>Minuria tridens</i>																
<i>Mirbelia rhagodioides</i>																
<i>Monachather paradoxus</i>																
<i>Monotaxis luteiflora</i>																
<i>Muehlenbeckia florulenta</i>										2			1			
<i>Murchisonia volubilis</i>																
<i>Myoporum platycarpum</i>															2	1
<i>Newcastelia hexarrhena</i>																
<i>Nicotiana rosulata</i>																
<i>Nicotiana</i> sp.																
<i>Olearia arida</i>																
<i>Olearia decurrens</i>													1	1		
<i>Olearia exiguifolia</i>																
<i>Olearia muelleri</i>																
<i>Olearia stuartii</i>																
<i>Olearia subspicata</i>																
<i>Otton simplicifolium</i>																
<i>Paspalidium basicladium</i>																

Appendix J Phase 2 species by site matrix

	S202	S207	S201	S172	S84	S185	S229	S50	S184	S56	S159	S155	S87	S82	S187	S189
<i>Persoonia coriacea</i>																
<i>Petalostylis cassioides</i>																
<i>Phebalium canaliculatum</i>																
<i>Pimelea microcephala</i> subsp. <i>microcephala</i>																
<i>Pittosporum angustifolium</i>																
<i>Pityrodia loricata</i>																
<i>Podolepis capillaris</i>																
<i>Pomax</i> sp. desert (A.S. George 11968)																
<i>Prostanthera althoferi</i>																
<i>Prostanthera sericea</i>																
<i>Psyrax attenuata</i>																
<i>Psyrax latifolia</i>																
<i>Psyrax suaveolens</i>												1				
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>			1													
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>																
<i>Ptilotus obovatus</i> var. <i>obovatus</i>			2									2		1		1
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>														1		
<i>Ptilotus sessilifolius</i>																
<i>Rhagodia eremaea</i>														1		1
<i>Rhodanthe chlorocephala</i> subsp. <i>rosea</i>																
<i>Rhodanthe maryonii</i>																
<i>Rhyncharrhena linearis</i>																
<i>Salicornia australis</i>																
<i>Salsola australis</i>																
<i>Santalum acuminatum</i>																
<i>Santalum lanceolatum</i>																
<i>Santalum spicatum</i>																
<i>Scaevola basedowii</i>																
<i>Scaevola parvibarbata</i>																
<i>Scaevola parvifolia</i>																
<i>Scaevola spinescens</i>																
<i>Sclerolaena convexula</i>																
<i>Sclerolaena densiflora</i>																
<i>Sclerolaena deserticola</i>																
<i>Sclerolaena diacantha</i>																
<i>Sclerolaena eriacantha</i>																
<i>Sclerolaena eurotioides</i>																
<i>Sclerolaena obliquicuspis</i>																

Appendix J Phase 2 species by site matrix

	S202	S207	S201	S172	S84	S185	S229	S50	S184	S56	S159	S155	S87	S82	S187	S189
<i>Sclerolaena parviflora</i>																
<i>Sclerolaena patentiuspis</i>																
<i>Sclerolaena symoniana</i>						1										
<i>Senecio pinnatifolius</i>																
<i>Senna artemisioides subsp. artemisioides</i>																
<i>Senna artemisioides subsp. filifolia</i>																
<i>Senna artemisioides subsp. petiolaris</i>			2	1	2			1					1	1	1	2
<i>Senna artemisioides subsp. x artemisioides</i>																
<i>Senna glaucifolia</i>																
<i>Senna pleurocarpa var. pleurocarpa</i>																
<i>Senna sp. Billabong (J.D. Alonzo 721)</i>																
<i>Sida arenicola</i>																
<i>Sida atrovirens</i>																
<i>Sida calyxhymenia</i>													1			
<i>Sida chrysocalyx</i>																
<i>Sida fibulifera</i>																
<i>Sida phaeotricha</i>																
<i>Sida sp.</i>																
<i>Sida spodochroma</i>					1											
<i>Solanum centrale</i>																
<i>Solanum ellipticum</i>																
<i>Solanum ferocissimum</i>																
<i>Solanum lasiophyllum</i>													1		1	
<i>Solanum nummularium</i>																
<i>Solanum orbiculatum subsp. orbiculatum</i>																1
<i>Solanum plicatile</i>																
<i>Sonchus oleraceus</i>																
<i>Spartothamnella teucriflora</i>																
<i>Spergularia rubra</i>																
<i>Stackhousia megaloptera</i>																
<i>Stylidium induratum</i>																
<i>Stylidium limbatum</i>																
<i>Swainsona affinis</i>																
<i>Swainsona formosa</i>																
<i>Templetonia aculeata</i>																
<i>Thryptomene biseriata</i>																
<i>Thyridolepis xerophila</i>																
<i>Thysanotus manglesianus</i>																

Appendix J Phase 2 species by site matrix

	S202	S207	S201	S172	S84	S185	S229	S50	S184	S56	S159	S155	S87	S82	S187	S189
<i>Triodia basedowii</i>																3
<i>Triodia desertorum</i>																
<i>Triodia mollis</i>																
<i>Triodia scariosa</i>	3	3	3	2												
<i>Triraphis mollis</i>																
<i>Velleia glabrata</i>																
<i>Velleia hispida</i>																
<i>Vittadinia sp.</i>						1										
<i>Vittadinia sulcata</i>																
<i>Westringia cephalantha</i>																
<i>Westringia rigida</i>		2														
<i>Wilsonia sp.</i>																
<i>Xanthorrhoea thortonii</i>																
<i>Zygophyllum apiculatum</i>																
<i>Zygophyllum aurantiacum</i>						3										
<i>Zygophyllum eremaeum</i>						1	1									
<i>Zygophyllum fruticosum</i>																
<i>Zygophyllum sp.</i>				1												

Appendix J Phase 2 species by site matrix

	S228	S51	S188	S121	S83	S52	S127	S53	S54	S137	S195	S63	S66	S198	S65	S231	S73	S216
<i>Abutilon otocarpum</i>												1						
<i>Abutilon oxycarpum subsp. prostratum</i>																		
<i>Abutilon sp.</i>																		
<i>Acacia acanthoclada</i>																		
<i>Acacia acanthoclada subsp. acanthoclada</i>																		
<i>Acacia aff. sorophylla</i>																		
<i>Acacia aneura</i>				3				2	3	3	2	1	3	2	3	3	1	3
<i>Acacia aneura x ayersiana</i>										2								
<i>Acacia ayersiana</i>																		
<i>Acacia burkittii</i>								1		1			2	2				
<i>Acacia camptoclada</i>																		
<i>Acacia colletioides</i>										1								
<i>Acacia coolgardiensis subsp. coolgardiensis</i>																		
<i>Acacia desertorum var. desertorum</i>																		
<i>Acacia eremophila numerous-nerved variant (A.S. George 119)</i>																		
<i>Acacia exocarpoides</i>																		
<i>Acacia gracillima</i>																		
<i>Acacia helmsiana</i>																		
<i>Acacia hemiteles</i>																		
<i>Acacia heteroneura var. jutsonii</i>																		
<i>Acacia jamesiana</i>																		
<i>Acacia kempeana</i>														1				
<i>Acacia ligulata</i>																	1	
<i>Acacia murrayana</i>												1						
<i>Acacia nyssophylla</i>											1							
<i>Acacia oswaldii</i>		1																
<i>Acacia prainii</i>								1										
<i>Acacia quadrimarginea</i>									2									
<i>Acacia ramulosa var. ramulosa</i>											2	1						2
<i>Acacia rigens</i>																		
<i>Acacia sibilans</i>																		
<i>Acacia sibina</i>																		
<i>Acacia sibirica</i>								1	3									
<i>Acacia tetragonophylla</i>									1	1	2		1					
<i>Adriana urticoides var. hookeri</i>																		
<i>Alectryon oleifolius subsp. canescens</i>		2																
<i>Allocasuarina acutivalvis</i>																		
<i>Allocasuarina helmsii</i>																		

Appendix J Phase 2 species by site matrix

	S228	S51	S188	S121	S83	S52	S127	S53	S54	S137	S195	S63	S66	S198	S65	S231	S73	S216
<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>																		
<i>Alyogyne pinoniana</i>																		
<i>Alyxia buxifolia</i>																		
<i>Amphipogon caricinus</i> var. <i>caricinus</i>																		
<i>Amyema fitzgeraldii</i>													1					
<i>Anthotroche pannosa</i>																		
<i>Aristida contorta</i>	1				1	2	1	2		1	3	2	1	1	2	1	4	
<i>Aristida holathera</i> var. <i>holathera</i>	2												1					
<i>Aristida</i> sp.																		
<i>Asteridea chaetopoda</i>			1															
<i>Atriplex nummularia</i>																		
<i>Atriplex vesicaria</i>	1		2	3	2	1												
<i>Austrostipa platychaeta</i>						1												
<i>Baeckea</i> sp. <i>Gt. Victoria Desert</i> (A.S. Weston 14813)																		
<i>Baeckea</i> sp. <i>Sandstone</i> (C.A. Gardner s.n. 26 Oct. 1963)																		
<i>Bertya dimerostigma</i>																		
<i>Boerhavia coccinea</i>					1													
<i>Bonamia rosea</i>																		
<i>Brachyscome</i> sp.																		
<i>Bulbostylis barbata</i>							1											
<i>Caesia</i> sp.																		
<i>Caesia</i> sp. <i>Great Victoria Desert</i> p.n.																		
<i>Calandrinia</i> sp.																		
<i>Callitris columellaris</i>																		
<i>Callitris preissii</i>	2		1															
<i>Callitris</i> sp.																		
<i>Calothamnus gilesii</i>																		
<i>Calotis hispidula</i>																		
<i>Calotis multicaulis</i>																		
<i>Calytrix</i> sp.																		
<i>Casuarina pauper</i>		2																
<i>Caustis dioica</i>																		
<i>Centaurium spicatum</i>							1											
<i>Centipeda pleiocephala</i>																		
<i>Centrolepis eremica</i>							1											
<i>Cephalopterum drummondii</i>																		
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>																		1
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>																	1	

Appendix J Phase 2 species by site matrix

	S228	S51	S188	S121	S83	S52	S127	S53	S54	S137	S195	S63	S66	S198	S65	S231	S73	S216
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>	1	1																
<i>Chenopodium gaudichaudianum</i>																		
<i>Chenopodium melanocarpum</i> forma <i>melanocarpum</i>																		
<i>Chenopodium nitrariaceum</i>																		
<i>Chrysocephalum apiculatum</i>																		
<i>Chrysocephalum pterochaetum</i>																		
<i>Chrysocephalum puteale</i>																1	1	
<i>Codonocarpus cotinifolius</i>																		
<i>Commersonia melanopetala</i>																		
<i>Conospermum toddii</i>																		
<i>Cratystylis subspinescens</i>	3					3												
<i>Cryptandra distigma</i>																		
<i>Cymbopogon obtectus</i>																		
<i>Dactyloctenium radulans</i>																		
<i>Dampiera dentata</i>																		
<i>Dampiera eriantha</i>																		
<i>Dampiera ramosa</i>																		
<i>Dampiera roycei</i>																		
<i>Dampiera stenophylla</i>																		
<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i>		1																
<i>Daviesia gracilis</i>																		
<i>Daviesia grahamii</i>																		
<i>Daviesia purpurascens</i>																		
<i>Dianella revoluta</i> var. <i>divaricata</i>																		
<i>Dicrastylis brunnea</i>										1								
<i>Dicrastylis georgei</i>																		
<i>Dicrastylis nicholasii</i>																		
<i>Dicrastylis</i> sp.																		
<i>Dicrastylis</i> sp. <i>Cundeelee</i> (D.J. Pearson 101)																		
<i>Digitaria brownii</i>																		
<i>Dodonaea lobulata</i>														1				1
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>																		
<i>Dodonaea rigida</i>																		
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>	2																1	
<i>Duboisia hopwoodii</i>																		
<i>Dysphania kalpari</i>				2	1		1											
<i>Eleocharis pallens</i>																		
<i>Enekbatus eremaeus</i>																		

Appendix J Phase 2 species by site matrix

	S228	S51	S188	S121	S83	S52	S127	S53	S54	S137	S195	S63	S66	S198	S65	S231	S73	S216
<i>Enneapogon caerulescens</i> var. <i>caerulescens</i>							1							1				
<i>Enneapogon polyphyllus</i>					1					1	1	1	1			2	3	
<i>Enteropogon ramosus</i>						1								1				
<i>Eragrostis australasica</i>																		
<i>Eragrostis dielsii</i>					1	1												
<i>Eragrostis eriopoda</i>	1						1			1	3		2	1			2	
<i>Eragrostis falcata</i>																		
<i>Eragrostis laniflora</i>												3						
<i>Eragrostis pergracilis</i>			1	2	1	1	3											
<i>Eragrostis setifolia</i>																		
<i>Eragrostis xerophila</i>															3	3		2
<i>Eremophila alternifolia</i>										1	3				1			
<i>Eremophila decipiens</i>																		
<i>Eremophila exilis</i>									1			3	2					
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>																		
<i>Eremophila fraseri</i>																		
<i>Eremophila georgei</i>																		
<i>Eremophila gilesii</i> subsp. <i>gilesii</i>															2			
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>																		
<i>Eremophila glabra</i> subsp. <i>glabra</i>																		
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>										1								
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>																		3
<i>Eremophila longifolia</i>																		
<i>Eremophila miniata</i>	1																	
<i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>									2									
<i>Eremophila platycalyx</i> subsp. <i>platycalyx</i>																		
<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>																		
<i>Eremophila punctata</i>																		
<i>Eremophila scoparia</i>																		
<i>Eremophila serrulata</i>														3				
<i>Eremophila</i> sp.																		
<i>Eremophila subfloccosa</i> subsp. <i>lanata</i>																		
<i>Eriachne helmsii</i>												1	1					
<i>Eriachne mucronata</i> (arid form) (MET 12 736)																		
<i>Eriachne mucronata</i> (desert form)																		
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>																		
<i>Erodium aureum</i>						1												
<i>Erodium carolinianum</i>																		

Appendix J Phase 2 species by site matrix

	S228	S51	S188	S121	S83	S52	S127	S53	S54	S137	S195	S63	S66	S198	S65	S231	S73	S216
<i>Erodium cygnorum</i>																		
<i>Eucalyptus concinna</i>									1									
<i>Eucalyptus drummondii</i>																		
<i>Eucalyptus ebbanoensis subsp. glauciramula</i>														1				
<i>Eucalyptus effusa</i>										3	3							
<i>Eucalyptus eremicola subsp. eremicola</i>																		
<i>Eucalyptus ewartiana</i>																		
<i>Eucalyptus gongylocarpa</i>																		
<i>Eucalyptus gracilis</i>		3																
<i>Eucalyptus horistes</i>								3										
<i>Eucalyptus leptopoda subsp. elevata</i>																		
<i>Eucalyptus oldfieldii</i>																		
<i>Eucalyptus oleosa subsp. oleosa</i>																		
<i>Eucalyptus socialis</i>																		
<i>Eucalyptus socialis subsp. victoriensis</i>																		
<i>Eucalyptus sp. (?horistes)</i>																		
<i>Eucalyptus trivalva</i>									2	3		3			1	2		3
<i>Eucalyptus youngiana</i>																		
<i>Euphorbia drummondii</i>																		
<i>Euphorbia tannensis ssp. eremophila (Panorama form)</i>																		
<i>Euphorbia tannensis subsp. eremophila</i>											1							
<i>Fimbristylis dichotoma</i>																		
<i>Frankenia cinerea</i>			2	3	2	2	2											
<i>Frankenia fecunda</i>	2						2											
<i>Glischrocaryon aureum</i>																		
<i>Gompholobium gompholobioides</i>																		
<i>Goodenia elderi</i>																		
<i>Goodenia glabra</i>																		
<i>Goodenia scaevolina</i>																		
<i>Goodenia sp.</i>			1															
<i>Goodenia triodiophila</i>																		
<i>Goodenia xanthosperma</i>																		
<i>Grevillea acacioides</i>																		
<i>Grevillea didymobotrya subsp. didymobotrya</i>																		
<i>Grevillea juncifolia</i>																		
<i>Grevillea juncifolia subsp. temulenta</i>																		
<i>Grevillea nematophylla subsp. planicosta</i>																		
<i>Grevillea sarissa</i>																		

Appendix J Phase 2 species by site matrix

	S228	S51	S188	S121	S83	S52	S127	S53	S54	S137	S195	S63	S66	S198	S65	S231	S73	S216
<i>Grevillea stenobotrya</i>																		
<i>Gyrostemon ramulosus</i>																		
<i>Hakea francisiana</i>																		
<i>Hakea lorea</i> subsp. <i>lorea</i>																		
<i>Hakea rhombales</i>																		
<i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i>																		
<i>Haloragis gossei</i>																		
<i>Halosarcia</i> ? <i>aff. undulata</i>								3										
<i>Halosarcia halocnemoides</i>			3															
<i>Halosarcia indica</i> subsp. <i>bidens</i>					1		3											
<i>Halosarcia pruinosa</i>																		
<i>Hannafordia bissillii</i> subsp. <i>bissillii</i>																		
<i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i>																		
<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>																		
<i>Indigofera georgei</i>									1									
<i>Isotoma petraea</i>																		
<i>Jacksonia arida</i>	1																	
<i>Jasminum calcarium</i>																		
<i>Jasminum didymum</i> subsp. <i>lineare</i>																		
<i>Jasminum</i> sp.																		
<i>Keraudrenia velutina</i> subsp. <i>elliptica</i>																		
<i>Lechenaultia striata</i>																		
<i>Leiocarpa semicalva</i> subsp. <i>semicalva</i>																		
<i>Lepidium phlebopetalum</i>																		
<i>Lepidium platypetalum</i>																	1	
<i>Lepidobolus deserti</i>																		
<i>Leptosema chambersii</i>																		
<i>Leptospermum fastigiatum</i>																		
<i>Logania nuda</i>																		
<i>Lomandra leucocephala</i> subsp. <i>robusta</i>																		
<i>Lysiana murrayi</i>													1					
<i>Maireana</i> ? <i>georgei</i>																		
<i>Maireana brevifolia</i>																	1	
<i>Maireana glomerifolia</i>			2															
<i>Maireana integra</i>																		
<i>Maireana pentatropis</i>		1																
<i>Maireana pyramidata</i>							1											
<i>Maireana sedifolia</i>																		

Appendix J Phase 2 species by site matrix

	S228	S51	S188	S121	S83	S52	S127	S53	S54	S137	S195	S63	S66	S198	S65	S231	S73	S216
<i>Maireana</i> sp.																		
<i>Maireana</i> sp.1												1						
<i>Maireana</i> sp.2				1														
<i>Maireana tomentosa</i>									1	1	1	1						3
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>	1												1	1				
<i>Maireana trichoptera</i>																		
<i>Maireana triptera</i>		1																3
<i>Maireana turbinata</i>																2		
<i>Maireana villosa</i>																		
<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)																		
<i>Marsdenia australis</i>																		
<i>Marsilea hirsuta</i>																		
<i>Melaleuca</i> aff. <i>leiocarpa</i>																		
<i>Melaleuca interioris</i>																		
<i>Melaleuca leiocarpa</i>																		
<i>Melaleuca zeteticorum</i>																		
<i>Microcorys macrediana</i>																		
<i>Micromyrtus obovata</i>																		
<i>Micromyrtus stenocalyx</i>																		
<i>Minuria</i> sp.																		
<i>Minuria tridens</i>																		
<i>Mirbelia rhagodioides</i>																		
<i>Monachather paradoxus</i>										1			1					
<i>Monotaxis luteiflora</i>																		
<i>Muehlenbeckia florulenta</i>					2													
<i>Murchisonia volubilis</i>																		
<i>Myoporum platycarpum</i>												1						
<i>Newcastelia hexarrhena</i>																		
<i>Nicotiana rosulata</i>																		
<i>Nicotiana</i> sp.					1													
<i>Olearia arida</i>																		
<i>Olearia decurrens</i>																		
<i>Olearia exiguifolia</i>									1									
<i>Olearia muelleri</i>																		
<i>Olearia stuartii</i>																		
<i>Olearia subspicata</i>																		
<i>Otion simplicifolium</i>																		
<i>Paspalidium basicladium</i>									1	1	1	1						

Appendix J Phase 2 species by site matrix

	S228	S51	S188	S121	S83	S52	S127	S53	S54	S137	S195	S63	S66	S198	S65	S231	S73	S216
<i>Persoonia coriacea</i>																		
<i>Petalostylis cassioides</i>																		
<i>Phebalium canaliculatum</i>																		
<i>Pimelea microcephala</i> subsp. <i>microcephala</i>																		
<i>Pittosporum angustifolium</i>																		
<i>Pityrodia loricata</i>																		
<i>Podolepis capillaris</i>																		
<i>Pomax</i> sp. desert (A.S. George 11968)																		
<i>Prostanthera althoferi</i>																		
<i>Prostanthera sericea</i>																		
<i>Psyrax attenuata</i>																		
<i>Psyrax latifolia</i>																		
<i>Psyrax suaveolens</i>																1		1
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>										1								
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>																		
<i>Ptilotus obovatus</i> var. <i>obovatus</i>									1	1	2	2	1	1	1	2	1	
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>																		
<i>Ptilotus sessilifolius</i>																		
<i>Rhagodia eremaea</i>						2					1	1	1	1				
<i>Rhodanthe chlorocephala</i> subsp. <i>rosea</i>																		
<i>Rhodanthe maryonii</i>																		
<i>Rhyncharrhena linearis</i>													1					
<i>Salicornia australis</i>																		
<i>Salsola australis</i>																		
<i>Santalum acuminatum</i>																		
<i>Santalum lanceolatum</i>																		
<i>Santalum spicatum</i>																		
<i>Scaevola basedowii</i>																		
<i>Scaevola parvibarbata</i>																		
<i>Scaevola parvifolia</i>																		
<i>Scaevola spinescens</i>		1												1	1	2		
<i>Sclerolaena convexula</i>													1					
<i>Sclerolaena densiflora</i>																		
<i>Sclerolaena deserticola</i>						1												
<i>Sclerolaena diacantha</i>										1			1					
<i>Sclerolaena eriacantha</i>																		
<i>Sclerolaena eurotioides</i>						2												
<i>Sclerolaena obliquicuspis</i>																		

Appendix J Phase 2 species by site matrix

	S228	S51	S188	S121	S83	S52	S127	S53	S54	S137	S195	S63	S66	S198	S65	S231	S73	S216
<i>Sclerolaena parviflora</i>																		
<i>Sclerolaena patenticuspis</i>																		
<i>Sclerolaena symoniana</i>		1																
<i>Senecio pinnatifolius</i>					1		1											
<i>Senna artemisioides subsp. artemisioides</i>																		
<i>Senna artemisioides subsp. filifolia</i>									1					1			1	
<i>Senna artemisioides subsp. petiolaris</i>								2		1	1	2	1			1		
<i>Senna artemisioides subsp. x artemisioides</i>										1								
<i>Senna glaucifolia</i>																		
<i>Senna pleurocarpa var. pleurocarpa</i>																		
<i>Senna sp. Billabong (J.D. Alonzo 721)</i>																		
<i>Sida arenicola</i>																		
<i>Sida atrovirens</i>										1			1			1	2	2
<i>Sida calyxhymenia</i>															1	2		
<i>Sida chrysocalyx</i>																		
<i>Sida fibulifera</i>														1	1			
<i>Sida phaeotricha</i>																		
<i>Sida sp.</i>																		
<i>Sida spodochroma</i>																	2	
<i>Solanum centrale</i>													1					
<i>Solanum ellipticum</i>										1					1		1	1
<i>Solanum ferocissimum</i>												1	1					
<i>Solanum lasiophyllum</i>					1					1		1			1		1	1
<i>Solanum nummularium</i>																		
<i>Solanum orbiculatum subsp. orbiculatum</i>					1	1				1	1				1		1	1
<i>Solanum plicatile</i>										1								
<i>Sonchus oleraceus</i>					1													
<i>Spartothamnella teucriflora</i>											1					1		
<i>Spergularia rubra</i>									1									
<i>Stackhousia megaloptera</i>																		
<i>Stylidium induratum</i>																		
<i>Stylidium limbatum</i>																		
<i>Swainsona affinis</i>																		
<i>Swainsona formosa</i>										1								
<i>Templetonia aculeata</i>																		
<i>Thryptomene biseriata</i>																		
<i>Thyridolepis xerophila</i>																		
<i>Thysanotus manglesianus</i>																		

Appendix J Phase 2 species by site matrix

	S228	S51	S188	S121	S83	S52	S127	S53	S54	S137	S195	S63	S66	S198	S65	S231	S73	S216
<i>Triodia basedowii</i>								3	4	3	2							3
<i>Triodia desertorum</i>																		
<i>Triodia mollis</i>							1											
<i>Triodia scariosa</i>																		
<i>Triraphis mollis</i>																		
<i>Velleia glabrata</i>								1										
<i>Velleia hispida</i>								1										
<i>Vittadinia sp.</i>																		
<i>Vittadinia sulcata</i>						1			1									
<i>Westringia cephalantha</i>																		
<i>Westringia rigida</i>																		
<i>Wilsonia sp.</i>				1														
<i>Xanthorrhoea thorntonii</i>																		
<i>Zygophyllum apiculatum</i>		1																
<i>Zygophyllum aurantiacum</i>																		
<i>Zygophyllum eremaeum</i>		2										1						
<i>Zygophyllum fruticosum</i>																		
<i>Zygophyllum sp.</i>										1								

Appendix J Phase 2 species by site matrix

	S190	S235	S237	S197	S74	S72	S154	S221	S223	S224	S179A	S213	S57	S01	S59	S193	S149
<i>Abutilon otocarpum</i>																	
<i>Abutilon oxycarpum subsp. prostratum</i>																	
<i>Abutilon sp.</i>																	
<i>Acacia acanthoclada</i>																	
<i>Acacia acanthoclada subsp. acanthoclada</i>																	
<i>Acacia aff. sorophylla</i>																	
<i>Acacia aneura</i>	3	1	1	2	2	3	2	3	3	3	3	4	4	3	3	4	4
<i>Acacia aneura x ayersiana</i>																	
<i>Acacia ayersiana</i>														3			
<i>Acacia burkittii</i>																	
<i>Acacia camptoclada</i>																	
<i>Acacia colletioides</i>																	
<i>Acacia coolgardiensis subsp. coolgardiensis</i>																	
<i>Acacia desertorum var. desertorum</i>																	
<i>Acacia eremophila numerous-nerved variant (A.S. George 119)</i>																	
<i>Acacia exocarpoides</i>																	
<i>Acacia gracillima</i>								2									
<i>Acacia helmsiana</i>																	
<i>Acacia hemiteles</i>																	
<i>Acacia heteroneura var. jutsonii</i>																	
<i>Acacia jamesiana</i>																	
<i>Acacia kempeana</i>						1											2
<i>Acacia ligulata</i>																	
<i>Acacia murrayana</i>																	
<i>Acacia nyssophylla</i>																	
<i>Acacia oswaldii</i>																	
<i>Acacia prainii</i>																	
<i>Acacia quadrimarginea</i>																	
<i>Acacia ramulosa var. ramulosa</i>	2											1			1	3	
<i>Acacia rigens</i>																	
<i>Acacia sibilans</i>																	
<i>Acacia sibina</i>																	
<i>Acacia sibirica</i>																	3
<i>Acacia tetragonophylla</i>						1	1	1									
<i>Adriana urticoides var. hookeri</i>																	
<i>Alectryon oleifolius subsp. canescens</i>																	
<i>Allocasuarina acutivalvis</i>																	
<i>Allocasuarina helmsii</i>																	

Appendix J Phase 2 species by site matrix

	S190	S235	S237	S197	S74	S72	S154	S221	S223	S224	S179A	S213	S57	S01	S59	S193	S149
<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>	2															2	2
<i>Alyogyne pinoniana</i>																	
<i>Alyxia buxifolia</i>																	
<i>Amphipogon caricinus</i> var. <i>caricinus</i>																	
<i>Amyema fitzgeraldii</i>																	
<i>Anthotroche pannosa</i>																	
<i>Aristida contorta</i>		2	2	4	4			1	1			1	1				
<i>Aristida holathera</i> var. <i>holathera</i>							1										
<i>Aristida</i> sp.									1								
<i>Asteridea chaetopoda</i>																	
<i>Atriplex nummularia</i>														1			
<i>Atriplex vesicaria</i>																	
<i>Austrostipa platychaeta</i>																	
<i>Baeckea</i> sp. <i>Gt. Victoria Desert</i> (A.S. Weston 14813)																	
<i>Baeckea</i> sp. <i>Sandstone</i> (C.A. Gardner s.n. 26 Oct. 1963)																	
<i>Bertya dimerostigma</i>																	
<i>Boerhavia coccinea</i>																	
<i>Bonamia rosea</i>																	
<i>Brachyscome</i> sp.																	
<i>Bulbostylis barbata</i>																	
<i>Caesia</i> sp.																	
<i>Caesia</i> sp. <i>Great Victoria Desert</i> p.n.																	
<i>Calandrinia</i> sp.																	
<i>Callitris columellaris</i>																	
<i>Callitris preissii</i>																	
<i>Callitris</i> sp.																	
<i>Calothamnus gilesii</i>																	
<i>Calotis hispidula</i>																	
<i>Calotis multicaulis</i>				1													
<i>Calytrix</i> sp.																	
<i>Casuarina pauper</i>																	
<i>Caustis dioica</i>																	
<i>Centaurium spicatum</i>																	
<i>Centipeda pleiocephala</i>																	
<i>Centrolepis eremica</i>																	
<i>Cephalopterum drummondii</i>																	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>								2									
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>																	

Appendix J Phase 2 species by site matrix

	S190	S235	S237	S197	S74	S72	S154	S221	S223	S224	S179A	S213	S57	S01	S59	S193	S149
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>																	
<i>Chenopodium gaudichaudianum</i>																	
<i>Chenopodium melanocarpum</i> forma <i>melanocarpum</i>																	
<i>Chenopodium nitrariaceum</i>																	
<i>Chrysocephalum apiculatum</i>																	
<i>Chrysocephalum pterochaetum</i>				1													
<i>Chrysocephalum puteale</i>								1									
<i>Codonocarpus cotinifolius</i>																	
<i>Commersonia melanopetala</i>																	
<i>Conospermum toddii</i>																	
<i>Cratystylis subspinescens</i>																	
<i>Cryptandra distigma</i>																	
<i>Cymbopogon obtectus</i>												1					
<i>Dactyloctenium radulans</i>																	
<i>Dampiera dentata</i>																	
<i>Dampiera eriantha</i>																	
<i>Dampiera ramosa</i>																	
<i>Dampiera roycei</i>																	
<i>Dampiera stenophylla</i>																	
<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i>																	
<i>Daviesia gracilis</i>																	
<i>Daviesia grahamii</i>																	
<i>Daviesia purpurascens</i>																	
<i>Dianella revoluta</i> var. <i>divaricata</i>																	
<i>Dicrastylis brunnea</i>																	
<i>Dicrastylis georgei</i>																	
<i>Dicrastylis nicholasii</i>																	
<i>Dicrastylis</i> sp.																	
<i>Dicrastylis</i> sp. <i>Cundeelee</i> (D.J. Pearson 101)																	
<i>Digitaria brownii</i>																	
<i>Dodonaea lobulata</i>																	
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>																	
<i>Dodonaea rigida</i>								2	2								
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>												1					
<i>Duboisia hopwoodii</i>																	
<i>Dysphania kalpari</i>																	
<i>Eleocharis pallens</i>																	
<i>Enekbatus eremaeus</i>																	

Appendix J Phase 2 species by site matrix

	S190	S235	S237	S197	S74	S72	S154	S221	S223	S224	S179A	S213	S57	S01	S59	S193	S149
<i>Enneapogon caerulescens</i> var. <i>caerulescens</i>						3											
<i>Enneapogon polyphyllus</i>		1	2	2	3												
<i>Enteropogon ramosus</i>	1	1	3	3													
<i>Eragrostis australasica</i>																	
<i>Eragrostis dielsii</i>																	
<i>Eragrostis eriopoda</i>					2	1											
<i>Eragrostis falcata</i>								2			1						1
<i>Eragrostis laniflora</i>																	
<i>Eragrostis pergracilis</i>																	
<i>Eragrostis setifolia</i>									2	2			1	1		1	
<i>Eragrostis xerophila</i>			2														
<i>Eremophila alternifolia</i>					2							2					2
<i>Eremophila decipiens</i>																	
<i>Eremophila exilis</i>													1	2			
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>											3	1					
<i>Eremophila fraseri</i>																	
<i>Eremophila georgei</i>												2					
<i>Eremophila gilesii</i> subsp. <i>gilesii</i>																	
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>				2													
<i>Eremophila glabra</i> subsp. <i>glabra</i>																	
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>																	
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>					4	2		1	1	1	1	2	1	1	1	2	1
<i>Eremophila longifolia</i>																	
<i>Eremophila miniata</i>																	
<i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>																	
<i>Eremophila platycalyx</i> subsp. <i>platycalyx</i>					2												
<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>																	
<i>Eremophila punctata</i>																	
<i>Eremophila scoparia</i>																	
<i>Eremophila serrulata</i>																	
<i>Eremophila</i> sp.																	
<i>Eremophila subfloccosa</i> subsp. <i>lanata</i>																	
<i>Eriachne helmsii</i>													1				
<i>Eriachne mucronata</i> (arid form) (MET 12 736)							2	1	1	1		1				2	
<i>Eriachne mucronata</i> (desert form)																1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>																	
<i>Erodium aureum</i>																	
<i>Erodium carolinianum</i>				1													

Appendix J Phase 2 species by site matrix

	S190	S235	S237	S197	S74	S72	S154	S221	S223	S224	S179A	S213	S57	S01	S59	S193	S149
<i>Erodium cygnorum</i>																	
<i>Eucalyptus concinna</i>																	
<i>Eucalyptus drummondii</i>																	
<i>Eucalyptus ebbanoensis subsp. glauciramula</i>																	
<i>Eucalyptus effusa</i>																	
<i>Eucalyptus eremicola subsp. eremicola</i>																	
<i>Eucalyptus ewartiana</i>																	
<i>Eucalyptus gongylocarpa</i>																	
<i>Eucalyptus gracilis</i>																	
<i>Eucalyptus horistes</i>																	
<i>Eucalyptus leptopoda subsp. elevata</i>																	
<i>Eucalyptus oldfieldii</i>																	2
<i>Eucalyptus oleosa subsp. oleosa</i>																	
<i>Eucalyptus socialis</i>															1		
<i>Eucalyptus socialis subsp. victoriensis</i>																	
<i>Eucalyptus sp. (?horistes)</i>																	
<i>Eucalyptus trivalva</i>	2																
<i>Eucalyptus youngiana</i>																	
<i>Euphorbia drummondii</i>			1	1													
<i>Euphorbia tannensis ssp. eremophila (Panorama form)</i>				1													
<i>Euphorbia tannensis subsp. eremophila</i>																	
<i>Fimbristylis dichotoma</i>																	
<i>Frankenia cinerea</i>																	
<i>Frankenia fecunda</i>																	
<i>Glischrocaryon aureum</i>																	
<i>Gompholobium gompholobioides</i>																	
<i>Goodenia elderi</i>																	
<i>Goodenia glabra</i>																	
<i>Goodenia scaevolina</i>																	
<i>Goodenia sp.</i>	1																
<i>Goodenia triodiophila</i>																	
<i>Goodenia xanthosperma</i>																	
<i>Grevillea acacioides</i>																	
<i>Grevillea didymobotrya subsp. didymobotrya</i>																	
<i>Grevillea juncifolia</i>																	
<i>Grevillea juncifolia subsp. temulenta</i>																	
<i>Grevillea nematophylla subsp. planicosta</i>																	
<i>Grevillea sarissa</i>																	

Appendix J Phase 2 species by site matrix

	S190	S235	S237	S197	S74	S72	S154	S221	S223	S224	S179A	S213	S57	S01	S59	S193	S149
<i>Grevillea stenobotrya</i>																	
<i>Gyrostemon ramulosus</i>																	
<i>Hakea francisiana</i>																	
<i>Hakea lorea</i> subsp. <i>lorea</i>			1														
<i>Hakea rhombales</i>																	
<i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i>								3	2	2	1					3	
<i>Haloragis gossei</i>																	
<i>Halosarcia</i> ? aff. <i>undulata</i>																	
<i>Halosarcia halocnemoides</i>																	
<i>Halosarcia indica</i> subsp. <i>bidens</i>																	
<i>Halosarcia pruinosa</i>																	
<i>Hannafordia bissillii</i> subsp. <i>bissillii</i>																	
<i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i>																	
<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>																	
<i>Indigofera georgei</i>				1													
<i>Isotoma petraea</i>																	
<i>Jacksonia arida</i>																	
<i>Jasminum calcarium</i>																	
<i>Jasminum didymum</i> subsp. <i>lineare</i>																	
<i>Jasminum</i> sp.																	
<i>Keraudrenia velutina</i> subsp. <i>elliptica</i>							2										
<i>Lechenaultia striata</i>																	
<i>Leiocarpa semicalva</i> subsp. <i>semicalva</i>																	
<i>Lepidium phlebopetalum</i>																	
<i>Lepidium platypetalum</i>																	
<i>Lepidobolus deserti</i>																	
<i>Leptosema chambersii</i>																	
<i>Leptospermum fastigiatum</i>																	
<i>Logania nuda</i>																	
<i>Lomandra leucocephala</i> subsp. <i>robusta</i>																	
<i>Lysiana murrayi</i>																	
<i>Maireana</i> ? <i>georgei</i>																	
<i>Maireana brevifolia</i>																	
<i>Maireana glomerifolia</i>																	
<i>Maireana integra</i>		1															
<i>Maireana pentatropis</i>																	
<i>Maireana pyramidata</i>			1			1					1						
<i>Maireana sedifolia</i>		1				1											

Appendix J Phase 2 species by site matrix

	S190	S235	S237	S197	S74	S72	S154	S221	S223	S224	S179A	S213	S57	S01	S59	S193	S149
<i>Maireana</i> sp.																	
<i>Maireana</i> sp.1																	
<i>Maireana</i> sp.2																	
<i>Maireana tomentosa</i>				2													
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>																	
<i>Maireana trichoptera</i>						1											
<i>Maireana triptera</i>				3													
<i>Maireana turbinata</i>				2													
<i>Maireana villosa</i>					1								1				
<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)																	
<i>Marsdenia australis</i>																	
<i>Marsilea hirsuta</i>																	
<i>Melaleuca</i> aff. <i>leiocarpa</i>																	
<i>Melaleuca interioris</i>																	
<i>Melaleuca leiocarpa</i>																	
<i>Melaleuca zeteticorum</i>																	
<i>Microcorys macrediana</i>																	
<i>Micromyrtus obovata</i>																	
<i>Micromyrtus stenocalyx</i>																	
<i>Minuria</i> sp.																	
<i>Minuria tridens</i>																	
<i>Mirbelia rhagodioides</i>																	
<i>Monachather paradoxus</i>			1	2					1		1		1	1	1	1	1
<i>Monotaxis luteiflora</i>																	
<i>Muehlenbeckia florulenta</i>																	
<i>Murchisonia volubilis</i>																	
<i>Myoporum platycarpum</i>																	
<i>Newcastelia hexarrhena</i>																	
<i>Nicotiana rosulata</i>																	
<i>Nicotiana</i> sp.																	
<i>Olearia arida</i>																	
<i>Olearia decurrens</i>																	
<i>Olearia exiguiifolia</i>																	
<i>Olearia muelleri</i>																	
<i>Olearia stuartii</i>																	
<i>Olearia subspicata</i>																	
<i>Otion simplicifolium</i>																	
<i>Paspalidium basicladium</i>																	

Appendix J Phase 2 species by site matrix

	S190	S235	S237	S197	S74	S72	S154	S221	S223	S224	S179A	S213	S57	S01	S59	S193	S149
<i>Persoonia coriacea</i>																	
<i>Petalostylis cassioides</i>																	
<i>Phebalium canaliculatum</i>																	2
<i>Pimelea microcephala</i> subsp. <i>microcephala</i>																	
<i>Pittosporum angustifolium</i>																	
<i>Pityrodia loricata</i>																	
<i>Podolepis capillaris</i>			1														
<i>Pomax</i> sp. desert (A.S. George 11968)																	
<i>Prostanthera althoferi</i>																	
<i>Prostanthera sericea</i>								1			1						
<i>Psydrax attenuata</i>																	
<i>Psydrax latifolia</i>																	
<i>Psydrax suaveolens</i>												2					
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>																	
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>							1										
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	2		2		2	3	1	2									
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>																	
<i>Ptilotus sessilifolius</i>																	
<i>Rhagodia eremaea</i>																	
<i>Rhodanthe chlorocephala</i> subsp. <i>rosea</i>																	
<i>Rhodanthe maryonii</i>				1													
<i>Rhyncharrhena linearis</i>															1	1	
<i>Salicornia australis</i>																	
<i>Salsola australis</i>				1													
<i>Santalum acuminatum</i>																	
<i>Santalum lanceolatum</i>							1										
<i>Santalum spicatum</i>											1						
<i>Scaevola basedowii</i>																	
<i>Scaevola parvibarbata</i>																	
<i>Scaevola parvifolia</i>																	
<i>Scaevola spinescens</i>					2	1	1										
<i>Sclerolaena convexula</i>																	
<i>Sclerolaena densiflora</i>																	
<i>Sclerolaena deserticola</i>																	
<i>Sclerolaena diacantha</i>																	
<i>Sclerolaena eriacantha</i>																	
<i>Sclerolaena eurotioides</i>																	
<i>Sclerolaena obliquicuspis</i>			2	2													

Appendix J Phase 2 species by site matrix

	S190	S235	S237	S197	S74	S72	S154	S221	S223	S224	S179A	S213	S57	S01	S59	S193	S149
<i>Sclerolaena parviflora</i>																	
<i>Sclerolaena patenticuspis</i>				1													
<i>Sclerolaena symoniana</i>																	
<i>Senecio pinnatifolius</i>																	
<i>Senna artemisioides</i> subsp. <i>artemisioides</i>					1												
<i>Senna artemisioides</i> subsp. <i>filifolia</i>					1												
<i>Senna artemisioides</i> subsp. <i>petiolaris</i>																	
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>						4	1										
<i>Senna glaucifolia</i>									1								
<i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>																	
<i>Senna</i> sp. <i>Billabong</i> (J.D. Alonzo 721)																	
<i>Sida arenicola</i>				2													
<i>Sida atrovirens</i>																	
<i>Sida calyxhymentia</i>					2	1										1	
<i>Sida chrysocalyx</i>													1				
<i>Sida fibulifera</i>		1															
<i>Sida phaeotricha</i>																	
<i>Sida</i> sp.																	
<i>Sida spodochroma</i>								2	1								
<i>Solanum centrale</i>																	
<i>Solanum ellipticum</i>		1	1	2	1	1		1									
<i>Solanum ferocissimum</i>																	
<i>Solanum lasiophyllum</i>	1	1	1	1		1	1	1	1				1	1	1	1	
<i>Solanum nummularium</i>																	
<i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>				1											1		
<i>Solanum plicatile</i>																	
<i>Sonchus oleraceus</i>																	
<i>Spartothamnella teucriflora</i>																	
<i>Spergularia rubra</i>																	
<i>Stackhousia megaloptera</i>																	
<i>Stylidium induratum</i>																	
<i>Stylidium limbatum</i>																	
<i>Swainsona affinis</i>				1													
<i>Swainsona formosa</i>																	
<i>Templetonia aculeata</i>																	
<i>Thryptomene biseriata</i>																	
<i>Thyridolepis xerophila</i>									1								
<i>Thysanotus manglesianus</i>																	

Appendix J Phase 2 species by site matrix

	S190	S235	S237	S197	S74	S72	S154	S221	S223	S224	S179A	S213	S57	S01	S59	S193	S149
<i>Triodia basedowii</i>	4											2	2	3	3	1	1
<i>Triodia desertorum</i>																	
<i>Triodia mollis</i>																	
<i>Triodia scariosa</i>																	
<i>Triraphis mollis</i>																	
<i>Velleia glabrata</i>																	
<i>Velleia hispida</i>																	
<i>Vittadinia sp.</i>																	
<i>Vittadinia sulcata</i>																	
<i>Westringia cephalantha</i>																	
<i>Westringia rigida</i>																	
<i>Wilsonia sp.</i>																	
<i>Xanthorrhoea thurstonii</i>																	
<i>Zygophyllum apiculatum</i>																	
<i>Zygophyllum aurantiacum</i>																	
<i>Zygophyllum eremaeum</i>																	
<i>Zygophyllum fruticosum</i>																	
<i>Zygophyllum sp.</i>																	

Appendix J Phase 2 species by site matrix

	S26	S167A	S143	S151	S164	S148	S160	S107	S158	S23	S138	S206	S220	S219	S114	S222
<i>Abutilon otocarpum</i>																
<i>Abutilon oxycarpum subsp. prostratum</i>																
<i>Abutilon sp.</i>														1	1	
<i>Acacia acanthoclada</i>																
<i>Acacia acanthoclada subsp. acanthoclada</i>																
<i>Acacia aff. sorophylla</i>		1														
<i>Acacia aneura</i>	2	3	3	3	4	3	3	2	3	3	3	3				3
<i>Acacia aneura x ayersiana</i>																
<i>Acacia ayersiana</i>								1								
<i>Acacia burkittii</i>						1										
<i>Acacia camptoclada</i>																
<i>Acacia colletioides</i>																
<i>Acacia coolgardiensis subsp. coolgardiensis</i>													3			
<i>Acacia desertorum var. desertorum</i>																
<i>Acacia eremophila numerous-nerved variant (A.S. George 119)</i>																
<i>Acacia exocarpoides</i>																1
<i>Acacia gracillima</i>																
<i>Acacia helmsiana</i>																
<i>Acacia hemiteles</i>																
<i>Acacia heteroneura var. jutsonii</i>																
<i>Acacia jamesiana</i>																
<i>Acacia kempeana</i>								1			2					
<i>Acacia ligulata</i>																
<i>Acacia murrayana</i>																
<i>Acacia nyssophylla</i>																
<i>Acacia oswaldii</i>																
<i>Acacia prainii</i>																
<i>Acacia quadrimarginea</i>														2	3	2
<i>Acacia ramulosa var. ramulosa</i>					1	2	3	2	2	1						
<i>Acacia rigens</i>																
<i>Acacia sibilans</i>	1															
<i>Acacia sibina</i>							3									
<i>Acacia sibirica</i>																
<i>Acacia tetragonophylla</i>																2
<i>Adriana urticoides var. hookeri</i>																
<i>Alectryon oleifolius subsp. canescens</i>																
<i>Allocasuarina acutivalvis</i>																
<i>Allocasuarina helmsii</i>																

Appendix J Phase 2 species by site matrix

	S26	S167A	S143	S151	S164	S148	S160	S107	S158	S23	S138	S206	S220	S219	S114	S222
<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>	1				2	2	4	4	2	2	3	2	2			
<i>Alyogyne pinoniana</i>					1											
<i>Alyxia buxifolia</i>																
<i>Amphipogon caricinus</i> var. <i>caricinus</i>		2								1	2					
<i>Amyema fitzgeraldii</i>													1			
<i>Anthotroche pannosa</i>																
<i>Aristida contorta</i>		1														2
<i>Aristida holathera</i> var. <i>holathera</i>												2	1			
<i>Aristida</i> sp.																
<i>Asteridea chaetopoda</i>																
<i>Atriplex nummularia</i>																
<i>Atriplex vesicaria</i>																
<i>Austrostipa platychaeta</i>													1	1		
<i>Baeckea</i> sp. <i>Gt. Victoria Desert (A.S. Weston 14813)</i>							2	1								
<i>Baeckea</i> sp. <i>Sandstone (C.A. Gardner s.n. 26 Oct. 1963)</i>																
<i>Bertya dimerostigma</i>		2			1	2										
<i>Boerhavia coccinea</i>															1	
<i>Bonamia rosea</i>																
<i>Brachyscome</i> sp.																
<i>Bulbostylis barbata</i>																
<i>Caesia</i> sp.																
<i>Caesia</i> sp. <i>Great Victoria Desert p.n.</i>																
<i>Calandrinia</i> sp.																
<i>Callitris columellaris</i>																
<i>Callitris preissii</i>																
<i>Callitris</i> sp.																
<i>Calothamnus gilesii</i>																
<i>Calotis hispidula</i>																
<i>Calotis multicaulis</i>																
<i>Calytrix</i> sp.																
<i>Casuarina pauper</i>																
<i>Caustis dioica</i>																
<i>Centaurium spicatum</i>																
<i>Centipeda pleiocephala</i>																
<i>Centrolepis eremica</i>																
<i>Cephalopterum drummondii</i>																
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>													2	2	1	2
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>																

Appendix J Phase 2 species by site matrix

	S26	S167A	S143	S151	S164	S148	S160	S107	S158	S23	S138	S206	S220	S219	S114	S222
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>																
<i>Chenopodium gaudichaudianum</i>																
<i>Chenopodium melanocarpum</i> forma <i>melanocarpum</i>															1	
<i>Chenopodium nitrariaceum</i>																1
<i>Chrysocephalum apiculatum</i>																
<i>Chrysocephalum pterochaetum</i>																
<i>Chrysocephalum puteale</i>																2
<i>Codonocarpus cotinifolius</i>	1	2			1											
<i>Commersonia melanopetala</i>																
<i>Conospermum toddii</i>																
<i>Cratystylis subspinescens</i>																
<i>Cryptandra distigma</i>																
<i>Cymbopogon obtectus</i>																
<i>Dactyloctenium radulans</i>																
<i>Dampiera dentata</i>																
<i>Dampiera eriantha</i>																
<i>Dampiera ramosa</i>																
<i>Dampiera roycei</i>																
<i>Dampiera stenophylla</i>																
<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i>																
<i>Daviesia gracilis</i>																
<i>Daviesia grahamii</i>																
<i>Daviesia purpurascens</i>																
<i>Dianella revoluta</i> var. <i>divaricata</i>																
<i>Dicrastylis brunnea</i>	1															
<i>Dicrastylis georgei</i>																
<i>Dicrastylis nicholasii</i>		1														
<i>Dicrastylis</i> sp.																
<i>Dicrastylis</i> sp. <i>Cundeelee</i> (D.J. Pearson 101)																
<i>Digitaria brownii</i>															1	
<i>Dodonaea lobulata</i>																
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>								1					1			
<i>Dodonaea rigida</i>															1	1
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>																
<i>Duboisia hopwoodii</i>																
<i>Dysphania kalpari</i>																
<i>Eleocharis pallens</i>																
<i>Enekbatus eremaeus</i>																

Appendix J Phase 2 species by site matrix

	S26	S167A	S143	S151	S164	S148	S160	S107	S158	S23	S138	S206	S220	S219	S114	S222
<i>Enneapogon caerulescens</i> var. <i>caerulescens</i>																
<i>Enneapogon polyphyllus</i>															1	1
<i>Enteropogon ramosus</i>													2	2		2
<i>Eragrostis australasica</i>																
<i>Eragrostis dielsii</i>																
<i>Eragrostis eriopoda</i>										1	1		1			
<i>Eragrostis falcata</i>																
<i>Eragrostis laniflora</i>																
<i>Eragrostis pergracilis</i>													2	2	1	2
<i>Eragrostis setifolia</i>		2	3	3	3	2										
<i>Eragrostis xerophila</i>	1															
<i>Eremophila alternifolia</i>																
<i>Eremophila decipiens</i>						1										
<i>Eremophila exilis</i>																
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	1				2	4				3	2					
<i>Eremophila fraseri</i>																
<i>Eremophila georgei</i>																1
<i>Eremophila gilesii</i> subsp. <i>gilesii</i>																
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>																
<i>Eremophila glabra</i> subsp. <i>glabra</i>						1										
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>																
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	1				1					1			1	1	1	2
<i>Eremophila longifolia</i>																
<i>Eremophila miniata</i>																
<i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>																
<i>Eremophila platycalyx</i> subsp. <i>platycalyx</i>																
<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>																
<i>Eremophila punctata</i>										3						
<i>Eremophila scoparia</i>																
<i>Eremophila serrulata</i>																
<i>Eremophila</i> sp.			1													
<i>Eremophila subfloccosa</i> subsp. <i>lanata</i>																
<i>Eriachne helmsii</i>																
<i>Eriachne mucronata</i> (arid form) (MET 12 736)		1											2			
<i>Eriachne mucronata</i> (desert form)								1								
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>															1	
<i>Erodium aureum</i>																
<i>Erodium carolinianum</i>																

Appendix J Phase 2 species by site matrix

	S26	S167A	S143	S151	S164	S148	S160	S107	S158	S23	S138	S206	S220	S219	S114	S222
<i>Erodium cygnorum</i>																
<i>Eucalyptus concinna</i>							1	2								
<i>Eucalyptus drummondii</i>																
<i>Eucalyptus ebbanoensis subsp. glauciramula</i>																
<i>Eucalyptus effusa</i>																
<i>Eucalyptus eremicola subsp. eremicola</i>																
<i>Eucalyptus ewartiana</i>																
<i>Eucalyptus gongylocarpa</i>			3					1								
<i>Eucalyptus gracilis</i>																
<i>Eucalyptus horistes</i>																
<i>Eucalyptus leptopoda subsp. elevata</i>			1				2									
<i>Eucalyptus oldfieldii</i>						2										
<i>Eucalyptus oleosa subsp. oleosa</i>	1							1								
<i>Eucalyptus socialis</i>																
<i>Eucalyptus socialis subsp. victoriensis</i>																
<i>Eucalyptus sp. (?horistes)</i>																
<i>Eucalyptus trivalva</i>																
<i>Eucalyptus youngiana</i>								1								
<i>Euphorbia drummondii</i>																
<i>Euphorbia tannensis ssp. eremophila (Panorama form)</i>																
<i>Euphorbia tannensis subsp. eremophila</i>																
<i>Fimbristylis dichotoma</i>																
<i>Frankenia cinerea</i>																
<i>Frankenia fecunda</i>																
<i>Glischrocaryon aureum</i>																
<i>Gompholobium gompholobioides</i>																
<i>Goodenia elderi</i>																
<i>Goodenia glabra</i>																
<i>Goodenia scaevolina</i>																
<i>Goodenia sp.</i>																
<i>Goodenia triodiophila</i>																
<i>Goodenia xanthosperma</i>																
<i>Grevillea acacioides</i>																
<i>Grevillea didymobotrya subsp. didymobotrya</i>																
<i>Grevillea juncifolia</i>																
<i>Grevillea juncifolia subsp. temulenta</i>																
<i>Grevillea nematophylla subsp. planicosta</i>										1						
<i>Grevillea sarissa</i>																

Appendix J Phase 2 species by site matrix

	S26	S167A	S143	S151	S164	S148	S160	S107	S158	S23	S138	S206	S220	S219	S114	S222
<i>Grevillea stenobotrya</i>																
<i>Gyrostemon ramulosus</i>																
<i>Hakea francisiana</i>									1							
<i>Hakea lorea</i> subsp. <i>lorea</i>																
<i>Hakea rhombales</i>																
<i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i>																
<i>Haloragis gossei</i>																
<i>Halosarcia</i> ? aff. <i>undulata</i>																
<i>Halosarcia halocnemoides</i>																
<i>Halosarcia indica</i> subsp. <i>bidens</i>																
<i>Halosarcia pruinosa</i>																
<i>Hannafordia bissillii</i> subsp. <i>bissillii</i>					2											
<i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i>																
<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>																
<i>Indigofera georgei</i>																
<i>Isotoma petraea</i>														2		
<i>Jacksonia arida</i>																
<i>Jasminum calcarium</i>																
<i>Jasminum didymum</i> subsp. <i>lineare</i>																
<i>Jasminum</i> sp.																
<i>Keraudrenia velutina</i> subsp. <i>elliptica</i>				1	1		1						3			
<i>Lechenaultia striata</i>																
<i>Leiocarpa semicalva</i> subsp. <i>semicalva</i>														1		
<i>Lepidium phlebopetalum</i>																
<i>Lepidium platypetalum</i>																
<i>Lepidobolus deserti</i>																
<i>Leptosema chambersii</i>																
<i>Leptospermum fastigiatum</i>																
<i>Logania nuda</i>																
<i>Lomandra leucocephala</i> subsp. <i>robusta</i>																
<i>Lysiana murrayi</i>																
<i>Maireana</i> ? <i>georgei</i>																
<i>Maireana brevifolia</i>																
<i>Maireana glomerifolia</i>																
<i>Maireana integra</i>																
<i>Maireana pentatropis</i>																
<i>Maireana pyramidata</i>																
<i>Maireana sedifolia</i>																

Appendix J Phase 2 species by site matrix

	S26	S167A	S143	S151	S164	S148	S160	S107	S158	S23	S138	S206	S220	S219	S114	S222
<i>Maireana</i> sp.																
<i>Maireana</i> sp.1																
<i>Maireana</i> sp.2																
<i>Maireana tomentosa</i>																
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>													1			1
<i>Maireana trichoptera</i>																
<i>Maireana triptera</i>																
<i>Maireana turbinata</i>																
<i>Maireana villosa</i>																
<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)																
<i>Marsdenia australis</i>															1	
<i>Marsilea hirsuta</i>																
<i>Melaleuca</i> aff. <i>leiocarpa</i>																
<i>Melaleuca interioris</i>																
<i>Melaleuca leiocarpa</i>				3												
<i>Melaleuca zeteticorum</i>																
<i>Microcorys macrediana</i>																
<i>Micromyrtus obovata</i>																
<i>Micromyrtus stenocalyx</i>																
<i>Minuria</i> sp.																
<i>Minuria tridens</i>																
<i>Mirbelia rhagodioides</i>																
<i>Monachather paradoxus</i>	1	2	1													
<i>Monotaxis luteiflora</i>																
<i>Muehlenbeckia florulenta</i>																
<i>Murchisonia volubilis</i>																
<i>Myoporum platycarpum</i>																
<i>Newcastelia hexarrhena</i>																
<i>Nicotiana rosulata</i>															1	
<i>Nicotiana</i> sp.																
<i>Olearia arida</i>																
<i>Olearia decurrens</i>																
<i>Olearia exiguiifolia</i>																
<i>Olearia muelleri</i>																
<i>Olearia stuartii</i>															1	
<i>Olearia subspicata</i>																
<i>Otion simplicifolium</i>																
<i>Paspalidium basicladium</i>																

Appendix J Phase 2 species by site matrix

	S26	S167A	S143	S151	S164	S148	S160	S107	S158	S23	S138	S206	S220	S219	S114	S222
<i>Persoonia coriacea</i>																
<i>Petalostylis cassioides</i>																
<i>Phebalium canaliculatum</i>						1										
<i>Pimelea microcephala</i> subsp. <i>microcephala</i>																
<i>Pittosporum angustifolium</i>																
<i>Pityrodia loricata</i>																
<i>Podolepis capillaris</i>																
<i>Pomax</i> sp. desert (A.S. George 11968)																
<i>Prostanthera althoferi</i>		1														
<i>Prostanthera sericea</i>									2	1	2					
<i>Psydrax attenuata</i>																
<i>Psydrax latifolia</i>																
<i>Psydrax suaveolens</i>						1			1	1						
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>																
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>																
<i>Ptilotus obovatus</i> var. <i>obovatus</i>													2	3	2	
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>																
<i>Ptilotus sessilifolius</i>																
<i>Rhagodia eremaea</i>																
<i>Rhodanthe chlorocephala</i> subsp. <i>rosea</i>																
<i>Rhodanthe maryonii</i>																
<i>Rhyncharrhena linearis</i>																
<i>Salicornia australis</i>																
<i>Salsola australis</i>																
<i>Santalum acuminatum</i>																
<i>Santalum lanceolatum</i>																
<i>Santalum spicatum</i>																
<i>Scaevola basedowii</i>																
<i>Scaevola parvibarbata</i>																
<i>Scaevola parvifolia</i>					1											
<i>Scaevola spinescens</i>																
<i>Sclerolaena convexula</i>																
<i>Sclerolaena densiflora</i>																
<i>Sclerolaena deserticola</i>																
<i>Sclerolaena diacantha</i>																
<i>Sclerolaena eriacantha</i>																
<i>Sclerolaena eurotioides</i>																
<i>Sclerolaena obliquicuspis</i>																

Appendix J Phase 2 species by site matrix

	S26	S167A	S143	S151	S164	S148	S160	S107	S158	S23	S138	S206	S220	S219	S114	S222
<i>Sclerolaena parviflora</i>																1
<i>Sclerolaena patenticuspis</i>																
<i>Sclerolaena symoniana</i>																
<i>Senecio pinnatifolius</i>																
<i>Senna artemisioides</i> subsp. <i>artemisioides</i>															2	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>																
<i>Senna artemisioides</i> subsp. <i>petiolaris</i>														1		
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>																3
<i>Senna glaucifolia</i>																
<i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>																
<i>Senna</i> sp. <i>Billabong</i> (J.D. Alonzo 721)																
<i>Sida arenicola</i>																
<i>Sida atrovirens</i>														2		3
<i>Sida calyxhymenia</i>														3	2	
<i>Sida chrysocalyx</i>																
<i>Sida fibulifera</i>													2		1	2
<i>Sida phaeotricha</i>																
<i>Sida</i> sp.																
<i>Sida spodochroma</i>																
<i>Solanum centrale</i>																
<i>Solanum ellipticum</i>																
<i>Solanum ferocissimum</i>																
<i>Solanum lasiophyllum</i>										1						
<i>Solanum nummularium</i>																
<i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>																
<i>Solanum plicatile</i>	1	1														
<i>Sonchus oleraceus</i>																
<i>Spartothamnella teucriflora</i>																
<i>Spergularia rubra</i>																
<i>Stackhousia megaloptera</i>																
<i>Stylidium induratum</i>																
<i>Stylidium limbatum</i>																
<i>Swainsona affinis</i>																
<i>Swainsona formosa</i>																
<i>Templetonia aculeata</i>																
<i>Thryptomene biseriata</i>																
<i>Thyridolepis xerophila</i>																
<i>Thysanotus manglesianus</i>										1						

Appendix J Phase 2 species by site matrix

	S26	S167A	S143	S151	S164	S148	S160	S107	S158	S23	S138	S206	S220	S219	S114	S222
<i>Triodia basedowii</i>	2	2	4	4		1	3	1	4	1	1					
<i>Triodia desertorum</i>					2			3								
<i>Triodia mollis</i>																
<i>Triodia scariosa</i>																
<i>Triraphis mollis</i>																
<i>Velleia glabrata</i>																
<i>Velleia hispida</i>																
<i>Vittadinia sp.</i>																
<i>Vittadinia sulcata</i>																
<i>Westringia cephalantha</i>																
<i>Westringia rigida</i>																
<i>Wilsonia sp.</i>																
<i>Xanthorrhoea thornstonii</i>																
<i>Zygophyllum apiculatum</i>																
<i>Zygophyllum aurantiacum</i>																
<i>Zygophyllum eremaeum</i>																
<i>Zygophyllum fruticosum</i>																
<i>Zygophyllum sp.</i>																

Appendix J Phase 2 species by site matrix

	S230	S112	S113	S232	S34	S76	S79	S02	S234	S182	S77	S75	S55	S03	S58	S71
<i>Abutilon otocarpum</i>	1															
<i>Abutilon oxycarpum subsp. prostratum</i>				1												
<i>Abutilon sp.</i>																
<i>Acacia acanthoclada</i>																
<i>Acacia acanthoclada subsp. acanthoclada</i>																
<i>Acacia aff. sorophylla</i>																
<i>Acacia aneura</i>	2	3		3	3	1	1	2		1	2					
<i>Acacia aneura x ayersiana</i>																
<i>Acacia ayersiana</i>	4							1								
<i>Acacia burkittii</i>				1						1			2			
<i>Acacia camptoclada</i>																
<i>Acacia colletioides</i>									1							
<i>Acacia coolgardiensis subsp. coolgardiensis</i>																
<i>Acacia desertorum var. desertorum</i>																
<i>Acacia eremophila numerous-nerved variant (A.S. George 119)</i>																
<i>Acacia exocarpoides</i>	1															
<i>Acacia gracillima</i>																
<i>Acacia helmsiana</i>																
<i>Acacia hemiteles</i>																
<i>Acacia heteroneura var. jutsonii</i>																
<i>Acacia jamesiana</i>																
<i>Acacia kempeana</i>				1	1	1				2						
<i>Acacia ligulata</i>																
<i>Acacia murrayana</i>																
<i>Acacia nyssophylla</i>							1									
<i>Acacia oswaldii</i>													1	1	1	1
<i>Acacia prainii</i>																
<i>Acacia quadrimarginea</i>	1	2	4													
<i>Acacia ramulosa var. ramulosa</i>					1											
<i>Acacia rigens</i>																
<i>Acacia sibilans</i>																
<i>Acacia sibina</i>																
<i>Acacia sibirica</i>		1				1		2								
<i>Acacia tetragonophylla</i>				2	2		1	1			2	1	1	1		
<i>Adriana urticoides var. hookeri</i>																
<i>Alectryon oleifolius subsp. canescens</i>													1	1		2
<i>Allocasuarina acutivalvis</i>																
<i>Allocasuarina helmsii</i>																

Appendix J Phase 2 species by site matrix

	S230	S112	S113	S232	S34	S76	S79	S02	S234	S182	S77	S75	S55	S03	S58	S71
<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>																
<i>Alyogyne pinoniana</i>																
<i>Alyxia buxifolia</i>		1			1											
<i>Amphipogon caricinus</i> var. <i>caricinus</i>		1						1			1					1
<i>Amyema fitzgeraldii</i>																
<i>Anthotroche pannosa</i>																
<i>Aristida contorta</i>		1					2									2
<i>Aristida holathera</i> var. <i>holathera</i>											2					
<i>Aristida</i> sp.	2		1													
<i>Asteridea chaetopoda</i>																
<i>Atriplex nummularia</i>																
<i>Atriplex vesicaria</i>																
<i>Austrostipa platychaeta</i>								1					2			
<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)																
<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963)																
<i>Bertya dimerostigma</i>																
<i>Boerhavia coccinea</i>																
<i>Bonamia rosea</i>																
<i>Brachyscome</i> sp.																
<i>Bulbostylis barbata</i>																
<i>Caesia</i> sp.																
<i>Caesia</i> sp. Great Victoria Desert p.n.																
<i>Calandrinia</i> sp.																
<i>Callitris columellaris</i>																
<i>Callitris preissii</i>																
<i>Callitris</i> sp.																
<i>Calothamnus gilesii</i>																
<i>Calotis hispidula</i>																
<i>Calotis multicaulis</i>																
<i>Calytrix</i> sp.																
<i>Casuarina pauper</i>					3	3	3	3	3		2	2	4	2	2	3
<i>Caustis dioica</i>																
<i>Centaurium spicatum</i>																
<i>Centipeda pleiocephala</i>																
<i>Centrolepis eremica</i>																
<i>Cephalopterum drummondii</i>																
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	1	1	1													
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>																

Appendix J Phase 2 species by site matrix

	S230	S112	S113	S232	S34	S76	S79	S02	S234	S182	S77	S75	S55	S03	S58	S71
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>										1						
<i>Chenopodium gaudichaudianum</i>			1													
<i>Chenopodium melanocarpum</i> forma <i>melanocarpum</i>																
<i>Chenopodium nitrariaceum</i>			2													
<i>Chrysocephalum apiculatum</i>			1													
<i>Chrysocephalum pterochaetum</i>																
<i>Chrysocephalum puteale</i>					1											1
<i>Codonocarpus cotinifolius</i>																
<i>Commersonia melanopetala</i>																
<i>Conospermum toddii</i>																
<i>Cratystylis subspinescens</i>																
<i>Cryptandra distigma</i>																
<i>Cymbopogon obtectus</i>																
<i>Dactyloctenium radulans</i>																
<i>Dampiera dentata</i>																
<i>Dampiera eriantha</i>																
<i>Dampiera ramosa</i>																
<i>Dampiera roycei</i>																
<i>Dampiera stenophylla</i>																
<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i>								1	1							
<i>Daviesia gracilis</i>																
<i>Daviesia grahamii</i>																
<i>Daviesia purpurascens</i>																
<i>Dianella revoluta</i> var. <i>divaricata</i>																
<i>Dicrastylis brunnea</i>																
<i>Dicrastylis georgei</i>																
<i>Dicrastylis nicholasii</i>																
<i>Dicrastylis</i> sp.																
<i>Dicrastylis</i> sp. <i>Cundeelee</i> (D.J. Pearson 101)																
<i>Digitaria brownii</i>																
<i>Dodonaea lobulata</i>					1	1	1	2		2	2	2	2			2
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>																
<i>Dodonaea rigida</i>	1	3														
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>				3												
<i>Duboisia hopwoodii</i>																
<i>Dysphania kalpari</i>																
<i>Eleocharis pallens</i>																
<i>Enekbatus eremaeus</i>																

Appendix J Phase 2 species by site matrix

	S230	S112	S113	S232	S34	S76	S79	S02	S234	S182	S77	S75	S55	S03	S58	S71
<i>Enneapogon caeruleus</i> var. <i>caeruleus</i>																
<i>Enneapogon polyphyllus</i>										2	1	2	1	1	2	1
<i>Enteropogon ramosus</i>											2					
<i>Eragrostis australasica</i>				1												
<i>Eragrostis dielsii</i>																
<i>Eragrostis eriopoda</i>		1														
<i>Eragrostis falcata</i>																
<i>Eragrostis laniflora</i>																
<i>Eragrostis pergracilis</i>	2										1					
<i>Eragrostis setifolia</i>				1							1					
<i>Eragrostis xerophila</i>																
<i>Eremophila alternifolia</i>	1													1		
<i>Eremophila decipiens</i>																
<i>Eremophila exilis</i>					1											
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>																
<i>Eremophila fraseri</i>																
<i>Eremophila georgei</i>		1	1			1	1				1	1	1			1
<i>Eremophila gilesii</i> subsp. <i>gilesii</i>																
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>																
<i>Eremophila glabra</i> subsp. <i>glabra</i>					1								1	1		
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>																
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	1	3		1	1	1	1	2		2	1					
<i>Eremophila longifolia</i>																
<i>Eremophila miniata</i>																
<i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>																
<i>Eremophila platycalyx</i> subsp. <i>platycalyx</i>																
<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>																
<i>Eremophila punctata</i>																
<i>Eremophila scoparia</i>						2	2	3	2					2		2
<i>Eremophila serrulata</i>																
<i>Eremophila</i> sp.																
<i>Eremophila subfloccosa</i> subsp. <i>lanata</i>																
<i>Eriachne helmsii</i>	1															
<i>Eriachne mucronata</i> (arid form) (MET 12 736)	1					1					2					
<i>Eriachne mucronata</i> (desert form)		2			1											
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>																
<i>Erodium aureum</i>																
<i>Erodium carolinianum</i>																

Appendix J Phase 2 species by site matrix

	S230	S112	S113	S232	S34	S76	S79	S02	S234	S182	S77	S75	S55	S03	S58	S71
<i>Erodium cygnorum</i>	1															
<i>Eucalyptus concinna</i>														2		
<i>Eucalyptus drummondii</i>																
<i>Eucalyptus ebbanoensis subsp. glauciramula</i>																
<i>Eucalyptus effusa</i>																
<i>Eucalyptus eremicola subsp. eremicola</i>																
<i>Eucalyptus ewartiana</i>																
<i>Eucalyptus gongylocarpa</i>																
<i>Eucalyptus gracilis</i>														2		
<i>Eucalyptus horistes</i>																
<i>Eucalyptus leptopoda subsp. elevata</i>																
<i>Eucalyptus oldfieldii</i>																
<i>Eucalyptus oleosa subsp. oleosa</i>																
<i>Eucalyptus socialis</i>																
<i>Eucalyptus socialis subsp. victoriensis</i>																
<i>Eucalyptus sp. (?horistes)</i>																
<i>Eucalyptus trivalva</i>																
<i>Eucalyptus youngiana</i>																
<i>Euphorbia drummondii</i>																
<i>Euphorbia tannensis ssp. eremophila (Panorama form)</i>																
<i>Euphorbia tannensis subsp. eremophila</i>																
<i>Fimbristylis dichotoma</i>																
<i>Frankenia cinerea</i>							3									
<i>Frankenia fecunda</i>																
<i>Glischrocaryon aureum</i>																
<i>Gompholobium gompholobioides</i>																
<i>Goodenia elderi</i>																
<i>Goodenia glabra</i>																
<i>Goodenia scaevolina</i>																
<i>Goodenia sp.</i>																
<i>Goodenia triodiophila</i>																
<i>Goodenia xanthosperma</i>																
<i>Grevillea acacioides</i>																
<i>Grevillea didymobotrya subsp. didymobotrya</i>																
<i>Grevillea juncifolia</i>																
<i>Grevillea juncifolia subsp. temulenta</i>																
<i>Grevillea nematophylla subsp. planicosta</i>																
<i>Grevillea sarissa</i>																

Appendix J Phase 2 species by site matrix

	S230	S112	S113	S232	S34	S76	S79	S02	S234	S182	S77	S75	S55	S03	S58	S71
<i>Grevillea stenobotrya</i>																
<i>Gyrostemon ramulosus</i>																
<i>Hakea francisiana</i>																
<i>Hakea lorea</i> subsp. <i>lorea</i>																
<i>Hakea rhombales</i>																
<i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i>	1			3												
<i>Haloragis gossei</i>																
<i>Halosarcia</i> ? aff. <i>undulata</i>																
<i>Halosarcia halocnemoides</i>																
<i>Halosarcia indica</i> subsp. <i>bidens</i>																
<i>Halosarcia pruinosa</i>																
<i>Hannafordia bissillii</i> subsp. <i>bissillii</i>																
<i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i>																
<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>																
<i>Indigofera georgei</i>																
<i>Isotoma petraea</i>																
<i>Jacksonia arida</i>																
<i>Jasminum calcarium</i>																
<i>Jasminum didymum</i> subsp. <i>lineare</i>																
<i>Jasminum</i> sp.		1	2													
<i>Keraudrenia velutina</i> subsp. <i>elliptica</i>	3															
<i>Lechenaultia striata</i>																
<i>Leiocarpa semicalva</i> subsp. <i>semicalva</i>	1															
<i>Lepidium phlebopetalum</i>																
<i>Lepidium platypetalum</i>																
<i>Lepidobolus deserti</i>																
<i>Leptosema chambersii</i>																
<i>Leptospermum fastigiatum</i>																
<i>Logania nuda</i>																
<i>Lomandra leucocephala</i> subsp. <i>robusta</i>																
<i>Lysiana murrayi</i>																
<i>Maireana</i> ? <i>georgei</i>					1							1				
<i>Maireana brevifolia</i>																
<i>Maireana glomerifolia</i>																
<i>Maireana integra</i>																
<i>Maireana pentatropis</i>																
<i>Maireana pyramidata</i>								1								
<i>Maireana sedifolia</i>							2	2	3	1	2	3	2	1	1	2

Appendix J Phase 2 species by site matrix

	S230	S112	S113	S232	S34	S76	S79	S02	S234	S182	S77	S75	S55	S03	S58	S71
<i>Maireana</i> sp.											1			1	1	1
<i>Maireana</i> sp.1																
<i>Maireana</i> sp.2											1					
<i>Maireana tomentosa</i>	1	1			1									2		
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>													2			1
<i>Maireana trichoptera</i>							1									
<i>Maireana triptera</i>								2	1	2			1			
<i>Maireana turbinata</i>												1				
<i>Maireana villosa</i>			1													
<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)																
<i>Marsdenia australis</i>												1				
<i>Marsilea hirsuta</i>																
<i>Melaleuca</i> aff. <i>leiocarpa</i>																
<i>Melaleuca interioris</i>																
<i>Melaleuca leiocarpa</i>																
<i>Melaleuca zeteticorum</i>																
<i>Microcorys macrediana</i>																
<i>Micromyrtus obovata</i>																
<i>Micromyrtus stenocalyx</i>																
<i>Minuria</i> sp.												2			2	
<i>Minuria tridens</i>																
<i>Mirbelia rhagodioides</i>																
<i>Monachather paradoxus</i>				1												
<i>Monotaxis luteiflora</i>																
<i>Muehlenbeckia florulenta</i>																
<i>Murchisonia volubilis</i>																
<i>Myoporum platycarpum</i>																
<i>Newcastelia hexarrhena</i>																
<i>Nicotiana rosulata</i>																
<i>Nicotiana</i> sp.																
<i>Olearia arida</i>																
<i>Olearia decurrens</i>																
<i>Olearia exiguifolia</i>																
<i>Olearia muelleri</i>				1	2	1	1	2	2	2					1	
<i>Olearia stuartii</i>																
<i>Olearia subspicata</i>																
<i>Otton simplicifolium</i>																
<i>Paspalidium basicladium</i>	2	1						1					2	1	1	1

Appendix J Phase 2 species by site matrix

	S230	S112	S113	S232	S34	S76	S79	S02	S234	S182	S77	S75	S55	S03	S58	S71
<i>Persoonia coriacea</i>																
<i>Petalostylis cassioides</i>																
<i>Phebalium canaliculatum</i>																
<i>Pimelea microcephala</i> subsp. <i>microcephala</i>																
<i>Pittosporum angustifolium</i>		1	1		1											
<i>Pityrodia loricata</i>																
<i>Podolepis capillaris</i>																
<i>Pomax</i> sp. desert (A.S. George 11968)																
<i>Prostanthera althoferi</i>																
<i>Prostanthera sericea</i>																
<i>Psydrax attenuata</i>	3															
<i>Psydrax latifolia</i>		1														
<i>Psydrax suaveolens</i>		1			1	1										
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>								1								
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>																
<i>Ptilotus obovatus</i> var. <i>obovatus</i>			3	1	2	1	2	2	1	2	2	1	2	3	1	1
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>																
<i>Ptilotus sessilifolius</i>																
<i>Rhagodia eremaea</i>											1		2	1		
<i>Rhodanthe chlorocephala</i> subsp. <i>rosea</i>																
<i>Rhodanthe maryonii</i>																
<i>Rhyncharrhena linearis</i>																
<i>Salicornia australis</i>																
<i>Salsola australis</i>															1	
<i>Santalum acuminatum</i>																
<i>Santalum lanceolatum</i>																
<i>Santalum spicatum</i>					1	1	1	1	1				1	1		
<i>Scaevola basedowii</i>																
<i>Scaevola parvibarbata</i>																
<i>Scaevola parvifolia</i>																
<i>Scaevola spinescens</i>						2	1	1	2	1	1		2	2	2	1
<i>Sclerolaena convexula</i>	1															
<i>Sclerolaena densiflora</i>																
<i>Sclerolaena deserticola</i>																
<i>Sclerolaena diacantha</i>													2			
<i>Sclerolaena eriacantha</i>									1					1		
<i>Sclerolaena eurotioides</i>																
<i>Sclerolaena obliquicuspis</i>																

Appendix J Phase 2 species by site matrix

	S230	S112	S113	S232	S34	S76	S79	S02	S234	S182	S77	S75	S55	S03	S58	S71
<i>Sclerolaena parviflora</i>																
<i>Sclerolaena patentispis</i>																
<i>Sclerolaena symoniana</i>																
<i>Senecio pinnatifolius</i>																
<i>Senna artemisioides</i> subsp. <i>artemisioides</i>		1	1	1	1				1							
<i>Senna artemisioides</i> subsp. <i>filifolia</i>							2	1								2
<i>Senna artemisioides</i> subsp. <i>petiolaris</i>									2	2		1	3	3	3	
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	1				1			1			2		2			1
<i>Senna glaucifolia</i>																
<i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>																
<i>Senna</i> sp. <i>Billabong</i> (J.D. Alonzo 721)																
<i>Sida arenicola</i>	1															
<i>Sida atrovirens</i>										2	1	1				
<i>Sida calyxhymania</i>		2	2	2			2	2	1		3			1		1
<i>Sida chrysocalyx</i>																
<i>Sida fibulifera</i>					1											
<i>Sida phaeotricha</i>																
<i>Sida</i> sp.			1										1			
<i>Sida spodochroma</i>	1														1	1
<i>Solanum centrale</i>																
<i>Solanum ellipticum</i>	1		1													1
<i>Solanum ferocissimum</i>																
<i>Solanum lasiophyllum</i>		1	1								1	1	1			
<i>Solanum nummularium</i>																
<i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i>							1	1			1		1	1		
<i>Solanum plicatile</i>																
<i>Sonchus oleraceus</i>																
<i>Spartothamnella teucriflora</i>	1	1		1												
<i>Spergularia rubra</i>																
<i>Stackhousia megaloptera</i>																
<i>Stylidium induratum</i>																
<i>Stylidium limbatum</i>																
<i>Swainsona affinis</i>																
<i>Swainsona formosa</i>																
<i>Templetonia aculeata</i>																
<i>Thryptomene biseriata</i>																
<i>Thyridolepis xerophila</i>											2					2
<i>Thysanotus manglesianus</i>																

Appendix J Phase 2 species by site matrix

	S230	S112	S113	S232	S34	S76	S79	S02	S234	S182	S77	S75	S55	S03	S58	S71
<i>Triodia basedowii</i>																
<i>Triodia desertorum</i>					1											
<i>Triodia mollis</i>																
<i>Triodia scariosa</i>							2		1							2
<i>Triraphis mollis</i>																
<i>Velleia glabrata</i>																
<i>Velleia hispida</i>																
<i>Vittadinia sp.</i>																
<i>Vittadinia sulcata</i>	1														1	
<i>Westringia cephalantha</i>																
<i>Westringia rigida</i>																
<i>Wilsonia sp.</i>																
<i>Xanthorrhoea thornstonii</i>																
<i>Zygophyllum apiculatum</i>																
<i>Zygophyllum aurantiacum</i>																
<i>Zygophyllum eremaeum</i>																
<i>Zygophyllum fruticosum</i>															1	
<i>Zygophyllum sp.</i>															1	

Appendix J Phase 2 species by site matrix

	S16	S196	S203	S180A	S186	S92	S191	S183	S181	S120	S218	S61	S64	S199	S238	S62
<i>Abutilon otocarpum</i>							2									
<i>Abutilon oxycarpum subsp. prostratum</i>													1			1
<i>Abutilon sp.</i>										1	1				1	1
<i>Acacia acanthoclada</i>																
<i>Acacia acanthoclada subsp. acanthoclada</i>																
<i>Acacia aff. sorophylla</i>																
<i>Acacia aneura</i>			2	1	1					2	2	1				2
<i>Acacia aneura x ayersiana</i>																
<i>Acacia ayersiana</i>										2		1				
<i>Acacia burkittii</i>		1	2			2		2			1				1	
<i>Acacia camptoclada</i>																
<i>Acacia colletioides</i>																
<i>Acacia coolgardiensis subsp. coolgardiensis</i>																
<i>Acacia desertorum var. desertorum</i>																
<i>Acacia eremophila numerous-nerved variant (A.S. George 119)</i>																
<i>Acacia exocarpoides</i>																
<i>Acacia gracillima</i>																
<i>Acacia helmsiana</i>																
<i>Acacia hemiteles</i>																
<i>Acacia heteroneura var. jutsonii</i>																
<i>Acacia jamesiana</i>																
<i>Acacia kempeana</i>													1			
<i>Acacia ligulata</i>																
<i>Acacia murrayana</i>																
<i>Acacia nyssophylla</i>			1													
<i>Acacia oswaldii</i>																
<i>Acacia prainii</i>																
<i>Acacia quadrimarginea</i>																
<i>Acacia ramulosa var. ramulosa</i>										1	1					
<i>Acacia rigens</i>																
<i>Acacia sibilans</i>		1												1		
<i>Acacia sibina</i>																
<i>Acacia sibirica</i>							1	2	2		2	1				
<i>Acacia tetragonophylla</i>			2	1					1					1		1
<i>Adriana urticoides var. hookeri</i>																
<i>Alectryon oleifolius subsp. canescens</i>						2									1	
<i>Allocasuarina acutivalvis</i>																
<i>Allocasuarina helmsii</i>																

Appendix J Phase 2 species by site matrix

	S16	S196	S203	S180A	S186	S92	S191	S183	S181	S120	S218	S61	S64	S199	S238	S62
<i>Aluta maisonneuvei</i> subsp. <i>auriculata</i>																
<i>Alyogyne pinoniana</i>																
<i>Alyxia buxifolia</i>																
<i>Amphipogon caricinus</i> var. <i>caricinus</i>																
<i>Amyema fitzgeraldii</i>	1														1	
<i>Anthotroche pannosa</i>																
<i>Aristida contorta</i>		1				3	3	4	4	3	3	4	1	3	2	4
<i>Aristida holathera</i> var. <i>holathera</i>						2	4								2	
<i>Aristida</i> sp.																
<i>Asteridea chaetopoda</i>																
<i>Atriplex nummularia</i>						1										
<i>Atriplex vesicaria</i>						2									2	3
<i>Austrostipa platychaeta</i>		1													1	
<i>Baeckea</i> sp. Gt. Victoria Desert (A.S. Weston 14813)																
<i>Baeckea</i> sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963)																
<i>Bertya dimerostigma</i>																
<i>Boerhavia coccinea</i>										1						
<i>Bonamia rosea</i>																
<i>Brachyscome</i> sp.										1						
<i>Bulbostylis barbata</i>																
<i>Caesia</i> sp.																
<i>Caesia</i> sp. Great Victoria Desert p.n.																
<i>Calandrinia</i> sp.							2									
<i>Callitris columellaris</i>																
<i>Callitris preissii</i>																
<i>Callitris</i> sp.																
<i>Calothamnus gilesii</i>																
<i>Calotis hispidula</i>																1
<i>Calotis multicaulis</i>																
<i>Calytrix</i> sp.																
<i>Casuarina pauper</i>																
<i>Caustis dioica</i>																
<i>Centaurium spicatum</i>																
<i>Centipeda pleiocephala</i>																
<i>Centrolepis eremica</i>																
<i>Cephalopterum drummondii</i>		1														
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>																
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>																

Appendix J Phase 2 species by site matrix

	S16	S196	S203	S180A	S186	S92	S191	S183	S181	S120	S218	S61	S64	S199	S238	S62
<i>Chenopodium desertorum</i> subsp. <i>rectum</i>					1											
<i>Chenopodium gaudichaudianum</i>													1	1	1	1
<i>Chenopodium melanocarpum</i> forma <i>melanocarpum</i>																
<i>Chenopodium nitrariaceum</i>								1							1	
<i>Chrysocephalum apiculatum</i>																
<i>Chrysocephalum pterochaetum</i>																
<i>Chrysocephalum puteale</i>		1	1							1						
<i>Codonocarpus cotinifolius</i>																
<i>Commersonia melanopetala</i>																
<i>Conospermum toddii</i>																
<i>Cratystylis subspinescens</i>																
<i>Cryptandra distigma</i>																
<i>Cymbopogon obtectus</i>														1		
<i>Dactyloctenium radulans</i>																1
<i>Dampiera dentata</i>																
<i>Dampiera eriantha</i>																
<i>Dampiera ramosa</i>																
<i>Dampiera roycei</i>																
<i>Dampiera stenophylla</i>																
<i>Daviesia benthamii</i> subsp. <i>acanthoclona</i>						1										
<i>Daviesia gracilis</i>																
<i>Daviesia grahamii</i>																
<i>Daviesia purpurascens</i>																
<i>Dianella revoluta</i> var. <i>divaricata</i>																
<i>Dicrastylis brunnea</i>																
<i>Dicrastylis georgei</i>																
<i>Dicrastylis nicholasii</i>																
<i>Dicrastylis</i> sp.																
<i>Dicrastylis</i> sp. <i>Cundeelee</i> (D.J. Pearson 101)																
<i>Digitaria brownii</i>																
<i>Dodonaea lobulata</i>																
<i>Dodonaea microzyga</i> var. <i>acrolobata</i>																
<i>Dodonaea rigida</i>																
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>						2									1	
<i>Duboisia hopwoodii</i>																
<i>Dysphania kalpari</i>																
<i>Eleocharis pallens</i>																
<i>Enekbatus eremaeus</i>																

Appendix J Phase 2 species by site matrix

	S16	S196	S203	S180A	S186	S92	S191	S183	S181	S120	S218	S61	S64	S199	S238	S62
<i>Enneapogon caeruleus</i> var. <i>caeruleus</i>			3		1	2										
<i>Enneapogon polyphyllus</i>		1		4	4	2	1	4	4	2		2	4	1	1	
<i>Enteropogon ramosus</i>										1	3	2				3
<i>Eragrostis australasica</i>																
<i>Eragrostis dielsii</i>																
<i>Eragrostis eriopoda</i>											2					
<i>Eragrostis falcata</i>																
<i>Eragrostis laniflora</i>							4									
<i>Eragrostis pergracilis</i>																
<i>Eragrostis setifolia</i>															1	1
<i>Eragrostis xerophila</i>						2				3						
<i>Eremophila alternifolia</i>																
<i>Eremophila decipiens</i>																
<i>Eremophila exilis</i>																
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>																
<i>Eremophila fraseri</i>																
<i>Eremophila georgei</i>																
<i>Eremophila gilesii</i> subsp. <i>gilesii</i>																
<i>Eremophila gilesii</i> subsp. <i>variabilis</i>										2	2					
<i>Eremophila glabra</i> subsp. <i>glabra</i>															1	
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>																
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>								1							1	
<i>Eremophila longifolia</i>										1						
<i>Eremophila miniata</i>																
<i>Eremophila paisleyi</i> subsp. <i>paisleyi</i>																
<i>Eremophila platycalyx</i> subsp. <i>platycalyx</i>																
<i>Eremophila platythamnos</i> subsp. <i>platythamnos</i>																
<i>Eremophila punctata</i>																
<i>Eremophila scoparia</i>																
<i>Eremophila serrulata</i>												1			1	
<i>Eremophila</i> sp.																
<i>Eremophila subfloccosa</i> subsp. <i>lanata</i>																
<i>Eriachne helmsii</i>																
<i>Eriachne mucronata</i> (arid form) (MET 12 736)																
<i>Eriachne mucronata</i> (desert form)																
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>			1													
<i>Erodium aureum</i>																
<i>Erodium carolinianum</i>																

Appendix J Phase 2 species by site matrix

	S16	S196	S203	S180A	S186	S92	S191	S183	S181	S120	S218	S61	S64	S199	S238	S62
<i>Erodium cygnorum</i>																
<i>Eucalyptus concinna</i>															3	
<i>Eucalyptus drummondii</i>		1														
<i>Eucalyptus ebbanoensis subsp. glauciramula</i>																
<i>Eucalyptus effusa</i>																
<i>Eucalyptus eremicola subsp. eremicola</i>																
<i>Eucalyptus ewartiana</i>																
<i>Eucalyptus gongylocarpa</i>																
<i>Eucalyptus gracilis</i>																
<i>Eucalyptus horistes</i>																
<i>Eucalyptus leptopoda subsp. elevata</i>																
<i>Eucalyptus oldfieldii</i>																
<i>Eucalyptus oleosa subsp. oleosa</i>																
<i>Eucalyptus socialis</i>																
<i>Eucalyptus socialis subsp. victoriensis</i>																
<i>Eucalyptus sp. (?horistes)</i>																
<i>Eucalyptus trivalva</i>											1				1	
<i>Eucalyptus youngiana</i>																
<i>Euphorbia drummondii</i>							1						1		1	1
<i>Euphorbia tannensis ssp. eremophila (Panorama form)</i>																
<i>Euphorbia tannensis subsp. eremophila</i>																
<i>Fimbristylis dichotoma</i>												1				
<i>Frankenia cinerea</i>																
<i>Frankenia fecunda</i>																
<i>Glischrocaryon aureum</i>																
<i>Gompholobium gompholobioides</i>																
<i>Goodenia elderi</i>																
<i>Goodenia glabra</i>																
<i>Goodenia scaevolina</i>																
<i>Goodenia sp.</i>																
<i>Goodenia triodiophila</i>																
<i>Goodenia xanthosperma</i>																
<i>Grevillea acacioides</i>																
<i>Grevillea didymobotrya subsp. didymobotrya</i>																
<i>Grevillea juncifolia</i>																
<i>Grevillea juncifolia subsp. temulenta</i>																
<i>Grevillea nematophylla subsp. planicosta</i>																
<i>Grevillea sarissa</i>																

Appendix J Phase 2 species by site matrix

	S16	S196	S203	S180A	S186	S92	S191	S183	S181	S120	S218	S61	S64	S199	S238	S62
<i>Grevillea stenobotrya</i>																
<i>Gyrostemon ramulosus</i>																
<i>Hakea francisiana</i>																
<i>Hakea lorea</i> subsp. <i>lorea</i>									2							
<i>Hakea rhombales</i>															1	
<i>Halgania cyanea</i> var. <i>Allambi Stn (B.W. Strong 676)</i>																
<i>Haloragis gossei</i>		1														
<i>Halosarcia</i> ? aff. <i>undulata</i>																
<i>Halosarcia halocnemoides</i>																
<i>Halosarcia indica</i> subsp. <i>bidens</i>																
<i>Halosarcia pruinosa</i>																
<i>Hannafordia bissillii</i> subsp. <i>bissillii</i>																
<i>Hannafordia quadrivalvis</i> subsp. <i>quadrivalvis</i>																
<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>																
<i>Indigofera georgei</i>																
<i>Isotoma petraea</i>																
<i>Jacksonia arida</i>																
<i>Jasminum calcarium</i>																
<i>Jasminum didymum</i> subsp. <i>lineare</i>																
<i>Jasminum</i> sp.																
<i>Keraudrenia velutina</i> subsp. <i>elliptica</i>																
<i>Lechenaultia striata</i>																
<i>Leiocarpa semicalva</i> subsp. <i>semicalva</i>																
<i>Lepidium phlebopetalum</i>		1														
<i>Lepidium platypetalum</i>																
<i>Lepidobolus deserti</i>																
<i>Leptosema chambersii</i>																
<i>Leptospermum fastigiatum</i>																
<i>Logania nuda</i>																
<i>Lomandra leucocephala</i> subsp. <i>robusta</i>																
<i>Lysiana murrayi</i>																
<i>Maireana</i> ? <i>georgei</i>																
<i>Maireana brevifolia</i>																
<i>Maireana glomerifolia</i>																
<i>Maireana integra</i>												2				1
<i>Maireana pentatropis</i>																
<i>Maireana pyramidata</i>				1										2	2	2
<i>Maireana sedifolia</i>	2	2	1	1	1			1								

Appendix J Phase 2 species by site matrix

	S16	S196	S203	S180A	S186	S92	S191	S183	S181	S120	S218	S61	S64	S199	S238	S62
<i>Maireana</i> sp.																
<i>Maireana</i> sp.1					2				1	2					1	
<i>Maireana</i> sp.2								2	2	1	1	2			1	
<i>Maireana tomentosa</i>			2			1					2					
<i>Maireana tomentosa</i> subsp. <i>tomentosa</i>								1								
<i>Maireana trichoptera</i>																
<i>Maireana triptera</i>																
<i>Maireana turbinata</i>		2	2	1												
<i>Maireana villosa</i>						1				2						
<i>Malleostemon</i> sp. Officer Basin (D. Pearson 350)																
<i>Marsdenia australis</i>																
<i>Marsilea hirsuta</i>																
<i>Melaleuca</i> aff. <i>leiocarpa</i>																
<i>Melaleuca interioris</i>																
<i>Melaleuca leiocarpa</i>																
<i>Melaleuca zeteticorum</i>																
<i>Microcorys macrediana</i>																
<i>Micromyrtus obovata</i>																
<i>Micromyrtus stenocalyx</i>																
<i>Minuria</i> sp.																
<i>Minuria tridens</i>													1			
<i>Mirbelia rhagodioides</i>																
<i>Monachather paradoxus</i>						1	4			2	1					
<i>Monotaxis luteiflora</i>																
<i>Muehlenbeckia florulenta</i>																
<i>Murchisonia volubilis</i>																
<i>Myoporum platycarpum</i>					2											
<i>Newcastelia hexarrhena</i>																
<i>Nicotiana rosulata</i>																
<i>Nicotiana</i> sp.																
<i>Olearia arida</i>																
<i>Olearia decurrens</i>																
<i>Olearia exiguifolia</i>																
<i>Olearia muelleri</i>																
<i>Olearia stuartii</i>																
<i>Olearia subspicata</i>																
<i>Otion simplicifolium</i>																
<i>Paspalidium basicladium</i>			1				1	1				1			1	

Appendix J Phase 2 species by site matrix

	S16	S196	S203	S180A	S186	S92	S191	S183	S181	S120	S218	S61	S64	S199	S238	S62
<i>Persoonia coriacea</i>																
<i>Petalostylis cassioides</i>																
<i>Phebalium canaliculatum</i>																
<i>Pimelea microcephala</i> subsp. <i>microcephala</i>																
<i>Pittosporum angustifolium</i>						1										
<i>Pityrodia loricata</i>																
<i>Podolepis capillaris</i>																
<i>Pomax</i> sp. desert (A.S. George 11968)																
<i>Prostanthera althoferi</i>																
<i>Prostanthera sericea</i>																
<i>Psydrax attenuata</i>																
<i>Psydrax latifolia</i>																
<i>Psydrax suaveolens</i>																
<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>																
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>																
<i>Ptilotus obovatus</i> var. <i>obovatus</i>		2		2	1	2		2	1	1						
<i>Ptilotus polystachyus</i> var. <i>polystachyus</i>																
<i>Ptilotus sessilifolius</i>																
<i>Rhagodia eremaea</i>			1			1			1	1	1			1		
<i>Rhodanthe chlorocephala</i> subsp. <i>rosea</i>												1				
<i>Rhodanthe maryonii</i>																
<i>Rhyncharrhena linearis</i>															1	
<i>Salicornia australis</i>														1		
<i>Salsola australis</i>		1								1		1	1			1
<i>Santalum acuminatum</i>																
<i>Santalum lanceolatum</i>																
<i>Santalum spicatum</i>																
<i>Scaevola basedowii</i>																
<i>Scaevola parvibarbata</i>																
<i>Scaevola parvifolia</i>																
<i>Scaevola spinescens</i>																
<i>Sclerolaena convexula</i>								2		2						
<i>Sclerolaena densiflora</i>												2		1		
<i>Sclerolaena deserticola</i>																
<i>Sclerolaena diacantha</i>										2		2	3			
<i>Sclerolaena eriacantha</i>																
<i>Sclerolaena eurotioides</i>																
<i>Sclerolaena obliquicuspis</i>		2														

Appendix J Phase 2 species by site matrix

	S16	S196	S203	S180A	S186	S92	S191	S183	S181	S120	S218	S61	S64	S199	S238	S62
<i>Sclerolaena parviflora</i>																
<i>Sclerolaena patenticuspis</i>					2	1							2			1
<i>Sclerolaena symoniana</i>																
<i>Senecio pinnatifolius</i>																
<i>Senna artemisioides subsp. artemisioides</i>																2
<i>Senna artemisioides subsp. filifolia</i>	1	1														
<i>Senna artemisioides subsp. petiolaris</i>					1										2	
<i>Senna artemisioides subsp. x artemisioides</i>			1									1		2		
<i>Senna glaucifolia</i>																
<i>Senna pleurocarpa var. pleurocarpa</i>																
<i>Senna sp. Billabong (J.D. Alonzo 721)</i>														3		
<i>Sida arenicola</i>		1														1
<i>Sida atrovirens</i>														1	2	
<i>Sida calyxhymenia</i>																
<i>Sida chrysocalyx</i>																
<i>Sida fibulifera</i>		1	2	1	1			2				1	1	1	1	
<i>Sida phaeotricha</i>		1														
<i>Sida sp.</i>																
<i>Sida spodochroma</i>		1														
<i>Solanum centrale</i>																
<i>Solanum ellipticum</i>		1	1	1	1		1						1	1		
<i>Solanum ferocissimum</i>										1						
<i>Solanum lasiophyllum</i>		1	1		1	1	1	1		1		1	1	1		
<i>Solanum nummularium</i>																
<i>Solanum orbiculatum subsp. orbiculatum</i>			1													
<i>Solanum plicatile</i>		1														
<i>Sonchus oleraceus</i>																
<i>Spartothamnella teucriflora</i>												1				
<i>Spergularia rubra</i>																
<i>Stackhousia megaloptera</i>																
<i>Stylidium induratum</i>																
<i>Stylidium limbatum</i>																
<i>Swainsona affinis</i>																
<i>Swainsona formosa</i>			1													
<i>Templetonia aculeata</i>																
<i>Thryptomene biseriata</i>																
<i>Thyridolepis xerophila</i>	1					1										
<i>Thysanotus manglesianus</i>																

Appendix J Phase 2 species by site matrix

	S16	S196	S203	S180A	S186	S92	S191	S183	S181	S120	S218	S61	S64	S199	S238	S62
<i>Triodia basedowii</i>																
<i>Triodia desertorum</i>																
<i>Triodia mollis</i>																
<i>Triodia scariosa</i>																
<i>Triraphis mollis</i>			3													
<i>Velleia glabrata</i>																
<i>Velleia hispida</i>																
<i>Vittadinia sp.</i>																
<i>Vittadinia sulcata</i>		1											2			
<i>Westringia cephalantha</i>																
<i>Westringia rigida</i>																
<i>Wilsonia sp.</i>																
<i>Xanthorrhoea thorntonii</i>																
<i>Zygophyllum apiculatum</i>																
<i>Zygophyllum aurantiacum</i>																
<i>Zygophyllum eremaeum</i>						1									1	
<i>Zygophyllum fruticosum</i>																
<i>Zygophyllum sp.</i>		1														



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**Appendix K: Comparison of incompletely determined
records to taxa previously recorded within
the Great Victoria Desert**



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Table J5: Analysis of incompletely identified collections within the Tropicana Operational Areas survey

Genus species	# Taxa within genera previously recorded within GVD (FloraBase)			Taxa collected (C) or not collected (NC) during current survey.	Comment
	Total #	# Not collected in the survey	# Priority or DRF taxa not collected in the survey		
<i>Eremophila</i> sp.	57	37	4	<p>Non Priority taxa too numerous to list. Priority taxa are: <i>Eremophila aurievisca</i> (P1) (NC) <i>Eremophila dendritica</i> (P3) (NC) <i>Eremophila revoluta</i> (P2) (NC)</p> <p><i>Eremophila undulata</i> (P2) (NC)</p>	<p>Given the large number of taxa within this genus within the GVD it is unlikely the indeterminate specimen is a Priority, however based on known distribution and habitat preferences: <i>E. aurievisca</i> is possible based on known distribution and habitat. <i>E. dendritica</i> is possible based on known distribution and habitat <i>E. revoluta</i> is unlikely due to its very distinctive small leaves <i>E. undulata</i> is unlikely due to its very distinctive undulate leaves, tomentose stem and leaves</p>
<i>Eucalyptus</i> sp.	69	52	4	<p>Non Priority taxa too numerous to list. DRF/Priority taxa are: <i>Eucalyptus articulata</i> (DRF) (NC) <i>Eucalyptus nigrifunda</i> (P4) (NC) <i>Eucalyptus pimpiniana</i> (P3) (NC) <i>Eucalyptus sparsa</i> (P3) (NC)</p>	<p>Given the very large number of taxa within this genus within the GVD it is considered unlikely the indeterminate specimen is a Priority. However as <i>Eucalyptus</i> species are very difficult to identify without fruiting material the possibility cannot be completely excluded.</p>
<i>Calytrix</i> sp.	4	4	2	<p><i>Calytrix carinata</i> (NC) <i>Calytrix desolata</i> (NC) <i>Calytrix praecipua</i> (P3) (NC) <i>Calytrix warburtonensis</i> (P2) (NC)</p>	<p>Both Priority taxon are considered relatively unlikely based on the limited availability within the survey area of the known habitat preferences: <i>C. praecipua</i> displays a preference for laterite and granite <i>C. warburtonensis</i> displays a preference for rocky breakaways</p>



Table J5: Analysis of incompletely identified collections within the Tropicana Operational Areas survey

Genus species	# Taxa within genera previously recorded within GVD (FloraBase)			Taxa collected (C) or not collected (NC) during current survey.	Comment
	Total #	# Not collected in the survey	# Priority or DRF taxa not collected in the survey		
<i>Calandrinia</i> sp.	4	4	1	<i>Calandrinia eremaea</i> (NC) <i>Calandrinia polyandra</i> (NC) <i>Calandrinia porifera</i> (P3) (NC) <i>Calandrinia remota</i> J(NC)	Considered relatively unlikely based on the limited availability within the survey area of the known habitat preferences: <i>C. porifera</i> displays a preference for granite rocks
<i>Ptilotus</i> sp. 1 <i>Ptilotus</i> sp. 2	20	13	1	<i>Ptilotus aervoides</i> (NC) <i>Ptilotus blackii</i> (P3) (NC) <i>Ptilotus calostachyus</i> (NC) <i>Ptilotus chamaecladus</i> (NC) <i>Ptilotus chippendalei</i> (NC) <i>Ptilotus clementii</i> (NC) <i>Ptilotus drummondii</i> (C) <i>Ptilotus exaltatus</i> (C) <i>Ptilotus exaltatus</i> var. <i>exaltatus</i> (C) <i>Ptilotus exaltatus</i> var. <i>villosus</i> (NC) <i>Ptilotus gaudichaudii</i> (C) <i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i> (C) <i>Ptilotus helichrysoides</i> (NC) <i>Ptilotus helipteroides</i> (NC) <i>Ptilotus macrocephalus</i> (NC) <i>Ptilotus obovatus</i> (NC) <i>Ptilotus polystachyus</i> (C) <i>Ptilotus polystachyus</i> var. <i>polystachyus</i> (C) <i>Ptilotus sessilifolius</i> (C) <i>Ptilotus stipitatus</i> (NC)	Given the large number of taxa within this genus within the GVD it is considered unlikely that the indeterminate specimen is <i>P. blackii</i> however the possibility cannot be entirely excluded on the basis of form, distribution or habitat preferences.



Table J5: Analysis of incompletely identified collections within the Tropicana Operational Areas survey

Genus species	# Taxa within genera previously recorded within GVD (FloraBase)			Taxa collected (C) or not collected (NC) during current survey.	Comment
	Total #	# Not collected in the survey	# Priority or DRF taxa not collected in the survey		
<i>Vittadinia</i> sp.	3	1	1	<i>Vittadinia eremaea</i> (C) <i>Vittadinia pustulata</i> (P2) (NC) <i>Vittadinia sulcata</i> (C)	<i>V. pustulata</i> cannot be excluded on the basis of habitat or distribution however given the distinctive postulate leaves of this taxon the indeterminate collection is considered unlikely to be this taxon
? <i>Boerhavia</i> sp.	1	0	0	<i>Boerhavia coccinea</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminate collection considered unlikely to be of conservation status
? <i>Chrysocephalum eremaeum</i>	4	1	0	<i>Chrysocephalum apiculatum</i> (C) <i>Chrysocephalum eremaeum</i> (NC) <i>Chrysocephalum pterochaetum</i> (C) <i>Chrysocephalum puteale</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminate collection considered unlikely to be of conservation status
? <i>Convolvulus remotus</i>	0	0	0	<i>Convolvulus remotus</i> previously recorded near the western border of the GVD. No other taxa from this genus lodged from locations within the GVD	No DRF or Priority taxa currently known within the GVD so indeterminate collection considered unlikely to be of conservation status
? <i>Cymbopogon</i> sp.	2	1	0	<i>C. obtectus</i> (C) <i>C. ambiguus</i> (NC)	No DRF or Priority taxa currently known within the GVD so indeterminate collection considered unlikely to be of conservation status



Table J5: Analysis of incompletely identified collections within the Tropicana Operational Areas survey

Genus species	# Taxa within genera previously recorded within GVD (FloraBase)			Taxa collected (C) or not collected (NC) during current survey.	Comment
	Total #	# Not collected in the survey	# Priority or DRF taxa not collected in the survey		
? <i>Daviesia</i> sp.	7	3	0	<i>Daviesia benthamii</i> (C) <i>Daviesia benthamii</i> subsp. <i>acanthoclona</i> (C) <i>Daviesia grahamii</i> (C) <i>Daviesia purpurascens</i> (P4) (C) <i>Daviesia</i> sp. Kanandah (R. Davis 10604) (NC) <i>Daviesia ulicifolia</i> (NC) <i>Daviesia ulicifolia</i> subsp. <i>aridicola</i> (NC)	<i>D. purpurascens</i> collected during survey, so indeterminant may be this taxon.
? <i>Lawrenzia</i> sp.	2	2	0	<i>Lawrenzia glomerata</i> (NC) <i>Lawrenzia squamata</i> (NC)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
? <i>Lepidium</i> sp.	2	2	0	<i>Lepidium oxytrichum</i> (NC) <i>Lepidium phlebopetalum</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
? <i>Stackhousia</i> sp.	1	0	0	<i>Stackhousia megaloptera</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
? <i>Urochloa piligera</i>	0	0	0	<i>Urochloa piligera</i> previously recorded to the north and north west of the GVD. No other taxa from this genus lodged from locations within the GVD	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Abutilon</i> sp.	2	0	0	<i>Abutilon leucopetalum</i> (C) <i>Abutilon otocarpum</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status



Table J5: Analysis of incompletely identified collections within the Tropicana Operational Areas survey

Genus species	# Taxa within genera previously recorded within GVD (FloraBase)			Taxa collected (C) or not collected (NC) during current survey.	Comment
	Total #	# Not collected in the survey	# Priority or DRF taxa not collected in the survey		
<i>Aristida</i> sp.	6	3	0	<i>Aristida anthoxanthoides</i> (NC) <i>Aristida contorta</i> (C) <i>Aristida holathera</i> (C) <i>Aristida holathera</i> var. <i>holathera</i> (C) <i>Aristida inaequiglumis</i> (NC) <i>Aristida obscura</i> (NC)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Atriplex</i> sp.	6	5	0	<i>Atriplex bunburyana</i> (NC) <i>Atriplex codonocarpa</i> (NC) <i>Atriplex nana</i> (NC) <i>Atriplex quadrivalvata</i> (NC) <i>Atriplex quadrivalvata</i> var. <i>quadrivalvata</i> (NC) <i>Atriplex vesicaria</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Austrostipa</i> sp.	2	1	0	<i>Austrostipa nitida</i> (NC) <i>Austrostipa plumigera</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Brachyscome</i> sp.	6	5	0	<i>Brachyscome blackii</i> (NC) <i>Brachyscome ciliaris</i> (NC) <i>Brachyscome ciliaris</i> var. <i>lanuginosa</i> (NC) <i>Brachyscome iberidifolia</i> (NC) <i>Brachyscome oncocarpa</i> (C) <i>Brachyscome tesquorum</i> (NC)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status



Table J5: Analysis of incompletely identified collections within the Tropicana Operational Areas survey

Genus species	# Taxa within genera previously recorded within GVD (FloraBase)			Taxa collected (C) or not collected (NC) during current survey.	Comment
	Total #	# Not collected in the survey	# Priority or DRF taxa not collected in the survey		
<i>Callitris</i> sp.	3	3	0	<i>Callitris columellaris</i> (C) <i>Callitris preissii</i> (C) <i>Callitris verrucosa</i> (NC)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Chenopodium</i> sp.	4	0	0	<i>Chenopodium desertorum</i> (C) <i>Chenopodium desertorum</i> subsp. <i>desertorum</i> (C) <i>Chenopodium desertorum</i> subsp. <i>rectum</i> (C) <i>Chenopodium gaudichaudianum</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Dicrastylis</i> sp.	6	3	0	<i>Dicrastylis brunnea</i> (C) <i>Dicrastylis costelloi</i> (NC) <i>Dicrastylis cundeeleensis</i> (P3) (C) <i>Dicrastylis doranii</i> (NC) <i>Dicrastylis nicholasii</i> P2 (C) <i>Dicrastylis parvifolia</i> (NC)	Both <i>D. cundeeleensis</i> and <i>D. nicholasii</i> were collected during the survey. The indeterminant collection may be <i>D. nicholasii</i> which is abundant and widely distributed within the survey area.
<i>Enneapogon</i> sp.	3	0	0	<i>Enneapogon caerulescens</i> (C) <i>Enneapogon cylindricus</i> (C) <i>Enneapogon polyphyllus</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status



Table J5: Analysis of incompletely identified collections within the Tropicana Operational Areas survey

Genus species	# Taxa within genera previously recorded within GVD (FloraBase)			Taxa collected (C) or not collected (NC) during current survey.	Comment
	Total #	# Not collected in the survey	# Priority or DRF taxa not collected in the survey		
<i>Eragrostis</i> sp.	12	3	0	<i>Eragrostis australasica</i> (C) <i>Eragrostis dielsii</i> (C) <i>Eragrostis eriopoda</i> (C) <i>Eragrostis falcata</i> (C) <i>Eragrostis kennedyae</i> (NC) <i>Eragrostis lacunaria</i> (NC) <i>Eragrostis laniflora</i> (C) <i>Eragrostis leptocarpa</i> (C) <i>Eragrostis parviflora</i> (NC) <i>Eragrostis pergracilis</i> (C) <i>Eragrostis setifolia</i> (C) <i>Eragrostis xerophila</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Eriachne</i> sp.	5	1	0	<i>Eriachne flaccida</i> (NC) <i>Eriachne helmsii</i> (C) <i>Eriachne mucronata</i> (C) <i>Eriachne pulchella</i> (C) <i>Eriachne pulchella</i> subsp. <i>pulchella</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status



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<i>Eriochloa</i> <i>?pseudoacrotricha</i>	0	0	0	<i>Eriochloa pseudoacrotricha</i> has to date been recorded further west than GVD. No other taxa from this genus are lodged from locations within the GVD. The only Priority taxon within this genus, <i>Eriochloa decumbens</i> has only been recorded within the Kimberley	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Erodium</i> sp.	2	1	0	<i>Erodium crinitum</i> <i>Erodium cygnorum</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Euphorbia</i> sp.	6	3	0	<i>Euphorbia australis</i> (NC) <i>Euphorbia biconvexa</i> (NC) <i>Euphorbia boophthona</i> (NC) <i>Euphorbia drummondii</i> (C) <i>Euphorbia tannensis</i> (C) <i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Fimbristylis</i> sp.	1	0	0	<i>Fimbristylis dichotoma</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Glischrocaryon</i> sp.	2	1	0	<i>Glischrocaryon aureum</i> (C) <i>Glischrocaryon flavescens</i> (NC)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status



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<i>Goodenia</i> sp.	14	6	0	<i>Goodenia centralis</i> (NC) <i>Goodenia elderi</i> (C) <i>Goodenia glandulosa</i> (C) <i>Goodenia havilandii</i> (NC) <i>Goodenia macroplectra</i> (NC) <i>Goodenia mimuloides</i> (NC) <i>Goodenia occidentalis</i> (C) <i>Goodenia peacockiana</i> (NC) <i>Goodenia pinnatifida</i> (NC) <i>Goodenia quasilibera</i> (C) <i>Goodenia ramelii</i> (C) <i>Goodenia scaevolina</i> (C) <i>Goodenia triodiophila</i> (C) <i>Goodenia xanthosperma</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Gyrostemon</i> sp.	4	3	0	<i>Gyrostemon brownii</i> (NC) <i>Gyrostemon racemiger</i> (NC) <i>Gyrostemon ramulosus</i> (C) <i>Gyrostemon tepperi</i> (NC)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Indigofera</i> sp.	1	0	0	<i>Indigofera georgei</i>	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status



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<i>Lomandra</i> sp.	3	1	0	<i>Lomandra effusa</i> (NC) <i>Lomandra leucocephala</i> (C) <i>Lomandra leucocephala</i> subsp. <i>robusta</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Maireana</i> sp.1 <i>Maireana</i> sp.2	20	9	0	<i>Maireana amoena</i> (NC) <i>Maireana eriosphaera</i> (NC) <i>Maireana georgei</i> (C) <i>Maireana glomerifolia</i> (C) <i>Maireana integra</i> (C) <i>Maireana pentatropis</i> (C) <i>Maireana planifolia</i> (NC) <i>Maireana platycarpa</i> (NC) <i>Maireana pyramidata</i> (C) <i>Maireana radiata</i> (NC) <i>Maireana scleroptera</i> (NC) <i>Maireana sedifolia</i> (C) <i>Maireana suaedifolia</i> (NC) <i>Maireana tomentosa</i> (C) <i>Maireana tomentosa</i> subsp. <i>tomentosa</i> (C) <i>Maireana trichoptera</i> (C) <i>Maireana triptera</i> (C) <i>Maireana turbinata</i> (C) <i>Maireana villosa</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Minuria</i> sp.	1	1	0	<i>Minuria leptophylla</i> (NC)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of



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					conservation status
<i>Nicotiana</i> sp.	8	6	0	<i>Nicotiana cavicola</i> (NC) <i>Nicotiana goodspeedii</i> (NC) <i>Nicotiana occidentalis</i> (NC) <i>Nicotiana occidentalis</i> subsp. <i>obliqua</i> (NC) <i>Nicotiana rosulata</i> (C) <i>Nicotiana rosulata</i> subsp. <i>rosulata</i> (C) <i>Nicotiana rotundifolia</i> (NC) <i>Nicotiana simulans</i> (NC)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Paspalidium</i> sp.	3	1	0	<i>Paspalidium basicladum</i> (C) <i>Paspalidium clementii</i> (C) <i>Paspalidium gracile</i> (NC)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Rhagodia</i> sp.	6	1	0	<i>Rhagodia drummondii</i> (NC) <i>Rhagodia eremaea</i> (C) <i>Rhagodia preissii</i> (NC) <i>Rhagodia preissii</i> subsp. <i>preissii</i> (NC) <i>Rhagodia spinescens</i> (NC) <i>Rhagodia ulicina</i> (NC)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status



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<i>Sida</i> sp.	6	1	0	<i>Sida arenicola</i> (C) <i>Sida calyxhymenia</i> (C) <i>Sida fibulifera</i> (C) <i>Sida intricata</i> (NC) <i>Sida phaeotricha</i> (C) <i>Sida spodochroma</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Solanum</i> sp.	9	2	0	<i>Solanum centrale</i> (C) <i>Solanum coactiliferum</i> (NC) <i>Solanum ferocissimum</i> (C) <i>Solanum lasiophyllum</i> (C) <i>Solanum nummularium</i> (C) <i>Solanum orbiculatum</i> (C) <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i> (C) <i>Solanum plicatile</i> (C) <i>Solanum terraneum</i> (NC)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status



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<i>Swainsona</i> sp.1	12	10	0	<i>Swainsona affinis</i> (C) <i>Swainsona beasleyana</i> (NC) <i>Swainsona canescens</i> (NC) <i>Swainsona flavicarinata</i> (NC) <i>Swainsona formosa</i> (C) <i>Swainsona kingii</i> (NC) <i>Swainsona leeana</i> (NC) <i>Swainsona microphylla</i> (NC) <i>Swainsona oliveri</i> (NC) <i>Swainsona oroboides</i> (NC) <i>Swainsona tenuis</i> (NC) <i>Swainsona unifoliolata</i> (NC)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Tecticornia</i> ?aff. <i>undulata</i>	4	3	0	<i>Tecticornia calyprata</i> (NC) <i>Tecticornia disarticulata</i> (NC) <i>Tecticornia peltata</i> (NC) <i>Tecticornia pruinosa</i> (C)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status



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<i>Triodia</i> sp. <i>Triodia ?scariosa</i> <i>Triodia ?schinzii</i>	10	6	0	<i>Triodia basedowii</i> (C) <i>Triodia concinna</i> (NC) <i>Triodia desertorum</i> (C) <i>Triodia helmsii</i> (NC) <i>Triodia melvillei</i> (NC) <i>Triodia pungens</i> (NC) <i>Triodia rigidissima</i> (NC) <i>Triodia scariosa</i> (C) <i>Triodia schinzii</i> (C) <i>Triodia tomentosa</i> (NC)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Wilsonia</i> sp.	0	0	0	No <i>Wilsonia</i> taxa currently known from the GVD. Probably <i>W. humilis</i> which has been recorded to the west.	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status
<i>Zygophyllum</i> sp. <i>Zygophyllum ?glaucum</i>	8	4	0	<i>Zygophyllum apiculatum</i> (C) <i>Zygophyllum aurantiacum</i> (C) <i>Zygophyllum aurantiacum</i> subsp. <i>aurantiacum</i> (C) <i>Zygophyllum compressum</i> (NC) <i>Zygophyllum eremaeum</i> (C) <i>Zygophyllum iodocarpum</i> (NC) <i>Zygophyllum ovatum</i> (NC) <i>Zygophyllum simile</i> (NC)	No DRF or Priority taxa currently known within the GVD so indeterminant collection considered unlikely to be of conservation status

