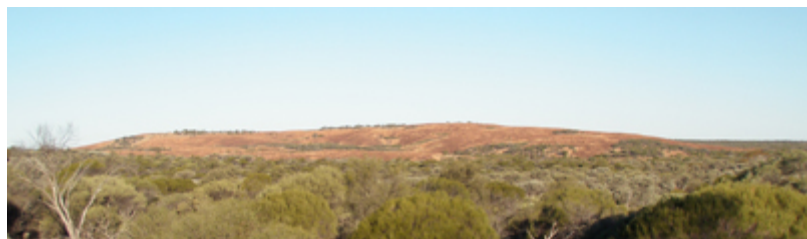


APPENDIX 13

Deception Deposit Vegetation and Flora Survey (Biota 2011a)



Deception Deposit Vegetation and Flora Survey





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1.0 Summary

1.1 Project Background

Cliffs Asia Pacific Iron Ore Pty Ltd (Cliffs) operates iron ore mines at Koolyanobbing Range, Mt Jackson Range and Windarling Range, with an ore processing facility at the Koolyanobbing mine. Together, these three operations form the Koolyanobbing Iron Ore Project.

The Windarling mine is located approximately 130 km north of Southern Cross in the Yilgarn region of Western Australia. Cliffs proposes to develop a new mine, approximately 20 km north of the existing Windarling Range mine operations, known as the Deception Deposit.

Biota Environmental Sciences (Biota) was commissioned in 2010 to complete a vegetation and flora assessment of the Deception Deposit area (referred to as "the mine area") and an associated haul road corridor. Collectively, the two areas are referred to as "the study area".

1.2 Methodology and Survey Timing

A Level 2 vegetation and flora assessment of the study area was completed as far as practicable in accordance with relevant Environmental Protection Authority (EPA) guidelines¹. The survey was carried out over four trips between August and December 2010, with a fifth trip in April 2011. The scope of the survey included:

- completion of an inventory of vascular plants occurring in the study area, including threatened flora species listed under the Commonwealth *Environment Protection and Biodiversity Conservation (EPBC) Act 1999*, species declared as Rare Flora (DRF) under the Western Australian *Wildlife Conservation Act 1950*, and species classified as Priority flora by the Western Australian Department of Environment and Conservation (DEC)²;
- identification and mapping of the distribution of vegetation units, including any listed as Threatened Ecological Communities (TECs) under the *EPBC Act 1999*, or TECs or Priority Ecological Communities (PECs) classified by the DEC¹.

1.3 Vegetation

Thirty-three vegetation units were identified for the study area, most of which were defined at the sub-association level as per Level VI of the National Vegetation Information System (NVIS)³. Three of these units were only recorded outside the current proposed haul road corridor.

Virtually all of the vegetation within the study area and its surrounds was in Pristine to Excellent condition, with limited signs of grazing and weeds, and disturbance from mining exploration limited to the mine area. All of the vegetation units can therefore be considered to represent intact and high quality examples of native vegetation. Of these units:

- No vegetation units are listed as TECs under the *EPBC Act 1999*.
- No vegetation units are listed as TECs by the DEC.
- Vegetation unit 4.01 (*Ptilotus obovatus* var. *obovatus* low open shrubland on rocky slopes) is analogous to one component of the Priority 1 'Windarling Ranges vegetation complex (banded ironstone formation)' PEC at the Windarling Range. This unit occurred in two stands within the mine area. A further stand within the current haul road corridor and a stand to the

¹ Although conducted over multiple survey periods, this study comprised single-phase sampling of each section of the study area.

² See Appendix 1 for the framework under which communities and species are assigned a level of conservation significance.

³ <http://www.environment.gov.au/erin/nvis/publications/avam/section-2-1.html#table1>

east of the haul road corridor are comparable in structure but occur in a different habitat; these may simply represent groups of *Ptilotus* individuals, rather than the distinct vegetation unit.

- Vegetation units 1.07 and 1.08 (*Acacia effusifolia* tall open shrublands over mixed shrubs, often including Myrtaceae species) support a number of Priority flora (including *Baeckea ochropetala*, *Baeckea* sp. Parker Range (M. Hislop & F. Hart MH2968), *Grevillea erectiloba* and *Philothea coateana*), along with other species of interest. Due to the number of Priority flora species, these areas of sandplain are considered to be of High conservation significance at a local scale. Vegetation units 1.07 and 1.08 occurred predominantly within the southern half of the haul road corridor, and extended beyond the haul road corridor for some distance to the east and west. A few stands were also recorded in the northeastern section of the mine area, however these contained fewer Priority flora.
- Vegetation unit 1.06 (*Dryandra arborea*⁴ tall shrubland on an outcropping BIF rise) is considered to be of Moderate conservation significance at a local scale. This vegetation is dominated by a Priority 4 species (*D. arborea*) and the spatial area of the unit is limited. Of further note, vegetation dominated by *Dryandra arborea* on banded ironstone hills in the Menzies area has been classified as a PEC.

1.4 Flora

A total of 324 native vascular flora species, from 146 genera belonging to 52 families, were recorded from the study area.

No DRF species listed under the Western Australian *Wildlife Conservation Act 1950* or threatened flora species listed under the Commonwealth *EPBC Act 1999* were recorded in the study area.

Seven Priority flora species were recorded:

- *Baeckea ochropetala* (Priority 1): 3,843 individuals of this species were recorded from a 1 km section of the haul road corridor, west of Pigeon Rocks, with 5,897 additional individuals recorded outside the haul road corridor to the east;
- *Baeckea* sp. Parker Range (M. Hislop & F. Hart MH2968) (Priority 3): 859 individuals were recorded from the mine area;
- *Philothea coateana* (Priority 3): 139 individuals were recorded from the haul road corridor;
- *Spartothamnella* sp. Helena & Aurora Range (P. G. Armstrong 1) (Priority 3): 195 individuals were recorded from the mine area, and two individuals were recorded from the southern section of the haul road corridor;
- *Dryandra (Banksia) arborea* (Priority 4): a stand of eight plants was identified in the mine area;
- *Eucalyptus formanii* (Priority 4): 1,153 individuals were recorded, mainly from the northern two-thirds of the haul road corridor, with some records in the northeastern section of the mine area; and
- *Grevillea erectiloba* (Priority 4): 735 individuals were recorded from the haul road corridor.

Some additional flora of interest were recorded, the most significant of which were:

- *Philothea deserti* subsp. ?nov.: 1,003 individuals of this taxon were recorded from the southern half of the haul road corridor; this taxon does not match either of the currently described subspecies, and a case could be made for a third subspecies (M. Hislop, WA Herbarium, pers. comm. 2011).

⁴ *Dryandra arborea* is recognised by the WA Herbarium as a taxonomic synonym of *Banksia arborea*, however the original nomenclature has been retained for this report.

- *Calytrix* sp. nov.: this taxon is thought likely to represent a new species, as the material collected does not match the currently described species (M. Hislop, WA Herbarium, pers. comm. 2011); 219 individuals were recorded from the northern section of the mine area.

Eleven introduced flora species were also recorded, only six of which were present within the mine area and current proposed haul road corridor. The most serious of these was Maltese Cockspur (**Centaurea melitensis*)⁵, which was recorded from a single location in the mine area. Two other particularly invasive weeds, Wards Weed (**Carrichtera annua*) and Mediterranean Turnip (**Brassica tournefortii*), were recorded within the study area to the east of the current haul road corridor.

1.5 Recommendations

The following recommendations arise from the vegetation and flora survey of the Deception Deposit study area.

1. The following vegetation units are of elevated conservation significance; disturbance to these units should be avoided or minimised during mine planning where possible:
 - Unit 4.01 (analogous to a part of the Priority 1 Windarling Range PEC);
 - Units 1.07 and 1.08 (support large numbers of records of Priority flora);
 - Unit 1.06 (dominated by the Priority 4 species *Dryandra arborea*).
2. The locations of the seven listed Priority flora should be taken into consideration during mine planning, as should the locations of the potentially new species of *Calytrix* and subspecies of *Philothea deserti*. Clearing of these species should be avoided or minimised during mine planning.
3. Weed hygiene measures should be implemented to minimise the risk of introduction of new weeds to the study area and/or the spread of existing weeds. The area around Pigeon Rocks is heavily utilised by cattle and supports numerous weeds. This area is likely to represent a continual source of weed propagules for the locality, and this should be taken into account in development of the weed management program.
4. Standard dust suppression should be implemented to minimise the potential for dust impacts on vegetation and flora during construction and operation.
5. Construction personnel should be made aware of vegetation and flora of particular conservation significance occurring on site. Clearing boundaries should be marked on site and there should be no clearing beyond these set limits.

⁵ In this report, an asterisk (*) is used prior to a species name to denote that the species is not native.

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2.0 Introduction

2.1 Project Background

Cliffs operates iron ore mines at Koolyanobbing Range, Mt Jackson Range and Windarling Range, with an ore processing facility at the Koolyanobbing mine. Together, these three operations form the Koolyanobbing Iron Ore Project.

The Windarling mine is located approximately 130 km north of Southern Cross, in the Yilgarn region of Western Australia. Cliffs proposes to develop a new mine, approximately 20 km north of the Windarling operations, known as the Deception Deposit (Figure 2.1).

Cliffs will require government approval for the proposed development at the Deception Deposit. Biota was commissioned to complete a vegetation and flora assessment of the Deception Deposit mine area and associated haul road corridor (hereafter collectively referred to as the study area) to assist in the preparation of the applications for government approval.

2.2 Scope and Objectives of this Study

A Level 2 vegetation and flora assessment of the study area was completed as far as practicable⁶ in accordance with EPA Position Statement No. 3 "*Terrestrial Biological Surveys as an element of Biodiversity Protection*" (EPA 2002a) and EPA Guidance Statement No. 51 "*Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment in Western Australia*" (EPA 2004).

The scope of the study included:

- completion of an inventory of vascular plants occurring in the study area, including threatened flora species listed under the *EPBC Act 1999*, DRF species listed under the *Wildlife Conservation Act 1950*, and species classified as Priority flora by the DEC;
- identification and mapping of the distribution of vegetation units, including units listed as TECs under the *EPBC Act 1999*, and TECs or PECs classified by the DEC; and
- preparation of a report detailing the methodology and findings of the assessment and recommendations for minimising potential impacts to the vegetation and flora values identified.

⁶ The current work comprises a single phase of sampling.

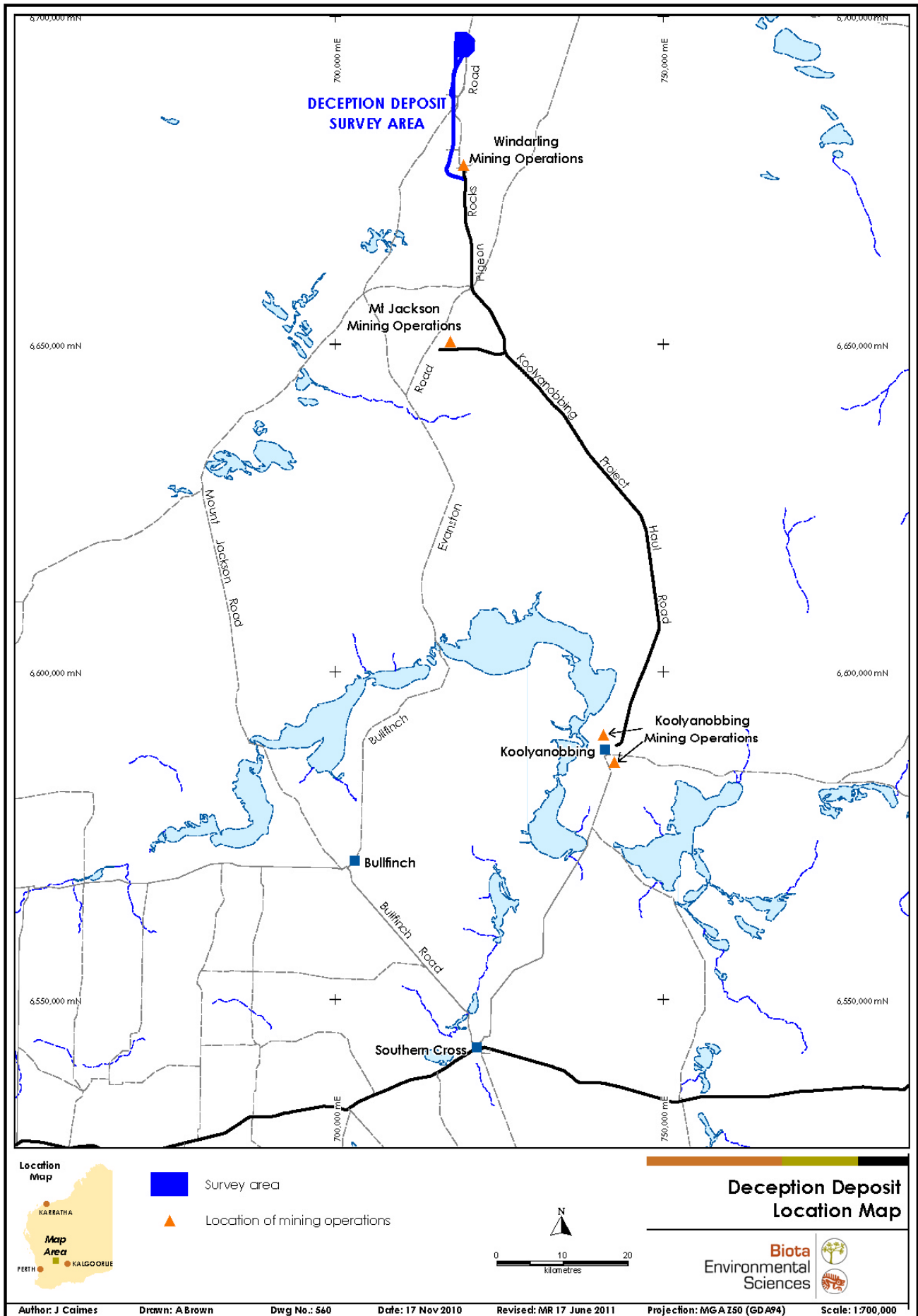


Figure 2.1: Location of the Deception Deposit study area in relation to existing Cliffs' operations at the Windarling Range, Mt Jackson Range and Koolyanobbing Range.

3.0 Methodology

3.1 Desktop Review

3.1.1 Database Searches

An *EPBC Act 1999* Protected Matters Search was carried out on the 7th of January 2011, using the following coordinates surrounded by a 10 km buffer:

- 29° 50' 32" S, 119° 15' 21" E;
- 29° 50' 29" S, 119° 17' 22" E;
- 30° 02' 16" S, 119° 14' 55" E; and
- 30° 01' 58" S, 119° 17' 38" E.

Two additional searches were carried out using the same coordinates:

- a search of the DEC and WA Herbarium rare flora database on the 27th of October 2010; and
- a NatureMap⁷ database search on the 10th of August 2010.

A buffer of 50 km was used for the DEC and WA Herbarium search, while a 40 km buffer was used for the NatureMap search (this is the maximum buffer allowance for this search tool).

The results of these searches are presented in Appendix 2 and discussed in the relevant sections below.

3.1.2 Review of Other Information

Three recent reports from vegetation and flora surveys completed by Western Botanical in the proximity of the Deception Deposit were reviewed to assist with placing the study area in context. These survey areas each covered part of the Deception mine area, and were associated with:

- 12 drill lines and 45 drill pads undertaken for mineral exploration (Western Botanical 2008);
- a 268 ha polygon for an exploration drilling program (Western Botanical 2009); and
- a 112 ha polygon for an exploration drilling program at Deception North (Western Botanical 2010).

Other material reviewed comprised mostly larger scale regional datasets, such as information for the Coolgardie bioregion (Section 4.1) and land systems (Section 4.3).

3.2 Field Surveys

3.2.1 Survey Phases, Timing and Conditions

The Deception Deposit vegetation and flora survey was carried out over five field trips:

- The first survey was carried out between the 16th and 28th of August 2010 by two botanists (Ms Michi Maier of Biota and Mr Ben Eckermann of Western Botanical). During this phase, 55 relevés⁸ were recorded, and vegetation mapping was completed for the majority of the mine area and haul road corridor. Systematic flora searches were completed for sections of the mine area and haul road corridor.

⁷ www.naturemap.dec.wa.gov.au

⁸ A relevé is an unbounded flora survey site, with a similar area to a quadrat (see Section 3.2.2).

- The second survey was carried out between the 21st of September and the 1st of October 2010 by four botanists from Biota (Ms Michi Maier, Ms Preeti Chukowry, Ms Melinda Trudgen and Mr Pierre-Louis de Kock) and three botanists from Western Botanical (Mr Ben Eckermann, Mr Jonathan Warden and Ms Megan Stone). During this survey, vegetation was mapped in the majority of the remainder of the haul road corridor (as identified at the time), and 63 flora recording quadrats and seven relevés were established in representative vegetation types. Sections of the mine area and the haul road corridor were also systematically searched for rare flora.
- The third survey was carried out between the 16th and 18th of November 2010 by three botanists from Biota (Ms Michi Maier, Ms Preeti Chukowry and Mr Pierre-Louis de Kock) and one botanist from Western Botanical (Mr Ben Eckermann). This survey focussed on searching the majority of the remainder of the haul road corridor for rare flora. In addition, vegetation mapping was completed in the northeastern section of the mine area. Three additional relevés were established in this area, and it was partially searched for rare flora.
- The fourth survey was carried out between the 30th of November and 2nd of December 2010 by three botanists from Biota (Ms Michi Maier, Ms Preeti Chukowry and Mr Pierre-Louis de Kock) and one botanist from Western Botanical (Mr Ben Eckermann). During this trip, the northwestern section of the mine area and a realigned section of the haul road corridor west of Pigeon Rocks were mapped for vegetation and searched for rare flora. Seven additional quadrats and two relevés were established during this survey.
- The fifth survey was carried out between the 6th and 14th of April 2011 by three botanists from Western Botanical (Mr Ben Eckermann, Mr Jonathon Warden and Ms Megan Stone). During this trip, vegetation mapping and rare flora searches were completed within an extension at the northern edge of the mine area and within two realigned sections of the haul road corridor. Five additional quadrats and four relevés were established during this survey.

Conditions during the 2010 surveys were relatively dry, and therefore not optimal for the collection of annual and cryptic perennial flora species⁹. Rainfall data from the Bureau of Meteorology (BOM) for the Southern Cross Airfield meteorological recording station¹⁰ indicates that the region had lower than average rainfall for the six months preceding the first field survey and that this continued throughout 2010 (BOM 2011). Conditions during the fifth survey in April 2011 were optimal for the collection of annual species, with higher than average rainfall received in February (BOM 2011).

3.2.2 Flora Survey Sites

Seventy-five flora recording quadrats were established in the Deception Deposit study area. These were 50 m x 50 m in size for woodland vegetation communities and 20 m x 20 m in size for shrublands. They were uniquely numbered using the prefix "DEC" followed by sequential numbers (e.g. DEC01).

The quadrats were permanently marked at all four corners with steel fence droppers, which were topped with plastic post caps for safety and visibility. An optical square or compass and measuring tapes were used to ensure that the quadrat sides were correctly positioned. Photographs of the vegetation were taken at all sites.

⁹ Annual flora complete their entire growing cycle within one year. Cryptic perennial species have a life-span longer than one year, but die back to a perennial rootstock or tuber (either regularly or under adverse conditions). These plants may therefore not be visible at certain times of year or during dry seasons.

¹⁰ Southern Cross is the nearest meteorological recording station to the study area (130 km to the south) for which long-term average monthly rainfall data are available.

The following parameters were recorded for all quadrats:

1. Location: AMG coordinates recorded in WGS84 datum (within 1-2 m of GDA94) using a handheld Global Positioning System (GPS), to an accuracy of ≤ 5 m; readings taken for all four corners of the quadrat;
2. Vegetation Description: Broad description based on the height and estimated cover of dominant species based on Keighery's (1994) modification of the vegetation classification systems developed by Muir (1977) and Aplin (1979) (see Appendix 3);
3. Habitat: Description of landform and habitat;
4. Soil: Broad description of soil type and a description of the stony surface mantle (where present);
5. Disturbance Details: Condition ranked according to the Bush Forever scale developed by Keighery (1994) as shown in Appendix 3, considering evidence of grazing, physical disturbance, weed invasion, etc.;
6. Percentage Foliar Cover: Cover was estimated visually for each species. Estimates were made to the nearest numeric value where possible (i.e. a range was not used);
7. Percentage Visible Cryptogam¹¹ Cover: estimated visually;
8. Percentage Dead and Standing Timber: estimated visually; and
9. Percentage Bare Ground: visual estimate of bare ground including dead standing and fallen timber.

Seventy-one relevés were also completed, which comprised unbounded flora survey sites with a similar area to the quadrats. Much the same information was recorded for quadrats and relevés. The main difference was that the relevés were not permanently marked and the cover of each species was not recorded (although the dominant species were noted as such), making them quicker to record. Relevés were numbered following the prefix "DEC-R" (e.g. DEC-R01).

A summary of all quadrat data and relevé data is provided in Appendix 4.

3.2.3 Vegetation Description and Mapping

Vegetation mapping of the study area was completed by Mr Ben Eckermann of Western Botanical, who had previously completed vegetation mapping for the Windarling Range. The 75 quadrats and 71 relevés (see Section 3.2.2) were established in stands considered to be representative of the major vegetation units present on site. Boundaries of the units were delineated on the ground, then transferred onto aerial photography. The polygons were subsequently refined in the office based on additional information from mapping notes and sampling sites.

Vegetation descriptions were formulated according to the vegetation classification system developed by Keighery (1994) (see Section 3.2.2).

Maps showing the distribution of the Deception Deposit vegetation units are presented in Appendix 5.

3.2.4 Searches for Flora of Conservation Significance

Systematic searches for DRF, Priority flora and other species of conservation interest were carried out during all five field surveys. Transects were walked through the study area with a distance of 30-40 m observed between botanists at all times, depending on the terrain and density of vegetation.

¹¹ A cryptogam is a plant (or plant-like organism) that reproduces by spores rather than seeds (e.g. ferns, mosses, algae and fungi).

The locations of the flora encountered were recorded using a hand-held GPS (WGS84 datum). Where a population was found, the location of each individual plant was recorded as far as practicable (i.e. for large shrubs and trees, or for isolated individuals). Where there were numerous small shrubs in close proximity (as was common for *Baeckea ochropetala*, for example), an indication of the number of plants around a centre point was recorded. The locations of the Priority flora and other species of conservation interest recorded in the Deception Deposit study area are presented on the mapping and in tabular form in Appendix 6. No DRF were recorded.

3.3 Specimen Identification and Data Entry

Voucher specimens of all taxa (including common species) were collected and assigned a unique number to facilitate tracking of data. These were pressed in the field and dried in a drying oven to assist with preservation.

Voucher specimens of the vascular flora were identified by botanists from Biota, using published keys, the Western Botanical reference collection and comparison to the collections held at the WA Herbarium. Expert assistance was sought from various taxonomists for difficult groups, including:

- Mr Mike Hislop (WA Herbarium): various taxa, including confirmation of Priority flora;
- Mr Malcolm Trudgen (ME Trudgen & Associates): small-flowered Myrtaceae;
- Mr Andrew Brown (DEC): orchids;
- Mr Frank Obbens (private consultant): *Calandrinia* spp.;
- Mr Bruce Maslin (WA Herbarium): *Acacia* spp.; and
- Mr Alex Williams (WA Herbarium): *Austrostipa* spp.

Fungi were identified by Ms Prue Anderson from Biota, with assistance sought from Dr Mark Brundrett (the University of WA).

Nomenclature was checked against the current listing of scientific names recognised by the WA Herbarium and updated as necessary (the list of species recorded is presented in Appendix 7). The only name retained in this report that is not consistent with the nomenclature currently recognised by the WA Herbarium is the use of *Dryandra arborea* in preference to *Banksia arborea*. All site data was entered into an Access database structure held at Biota.

Where suitable material was available, voucher specimens have been lodged with the WA Herbarium for all Priority flora and other species of conservation significance. In addition, vouchers have been submitted for any species that are poorly vouchered or for which the Deception locality represents a range extension or fills a gap in the known range. The fungi specimens have also been submitted to the WA Herbarium.

3.4 Floristic Analysis

Analysis of the flora quadrat data from the Deception study area was undertaken to explore similarities or dissimilarities in the vegetation types sampled by the quadrats. The relevés were not examined in detail as quantitative cover values were not recorded, however separate analyses were run using presence / absence data from both quadrats and relevés, and these are discussed further in Section 5.3 as appropriate. PRIMER v6 multivariate statistical software (Clarke and Gorley 2006) was used to conduct these analyses.

Only perennial flora were included in the analyses; annual species and cryptic perennials were excluded, as some of these would not necessarily have been visible during all the sampling periods. Weeds were also excluded from the data set. Taxa that were considered problematic in

the field and for which some uncertainty remained as to their identity (e.g. *Eremophila granitica* versus *E. metallicorum*) were referred to a single taxon for the purposes of the analyses.

The estimated percentage cover data were used in the computation of triangular similarity matrices based on the Bray-Curtis similarity measure. Almost all ecological datasets benefit from some level of transformation, particularly in the case of the Bray-Curtis resemblance measure as it does not contain any form of scaling (Clarke and Gorley 2006). However, transformations beyond cube root move towards presence/absence data (McCune and James 2002), and even cubed root transformations down-weight abundant species to a high degree. A conservative approach was therefore taken with this data and a square-root transformation was applied to the percentage cover data prior to the computation of the similarity matrices.

The 'similarity percentages' routine (SIMPER) within PRIMER was used to determine floristically similar groupings of sites, and to estimate the percentage contribution of each species to these groupings.

Outputs of the PRIMER analysis are presented in Appendix 8.

3.5 Limitations of this Study

This study is considered to provide a good representation of the vegetation and flora values of the Deception Deposit study area. However, some limiting factors of the field surveys must be considered when reviewing and applying the results:

- The sampling was undertaken over four field trips in late 2010, during the spring season, and one field trip in autumn 2011. No seasonal sampling has been undertaken.
- Conditions during 2010 were not optimal for the collection of ephemeral and cryptic perennial flora species, as there had been lower than average rainfall during the months prior to and during the survey periods (BoM 2011). Despite this, numerous small annual flora species were recorded. It is therefore considered that the flora list is representative of the overall community occurring in the area, although some species (particularly orchids, daisies and other small herbs that are particularly sensitive to rainfall) are likely to be under-represented.
- Fungi, lichens and nonvascular flora (e.g. mosses and liverworts) were not systematically sampled, as is currently typical for surveys of this nature. However, opportunistic collections of fungi and lichens were made where good material was available. The fungi have been determined as far as possible, but the lichens were not able to be identified within the timeframe of this study.
- During the process of specimen identification, some material at the WA Herbarium was unable to be inspected due to closure of the collection prior to the move to new premises.

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4.0 Existing Environment

4.1 IBRA Bioregion and Subregion

The Interim Biogeographic Regionalisation for Australia (IBRA) recognises 85 bioregions and 403 subregions within Australia (Environment Australia 2000). The study area lies within the Coolgardie bioregion (Section 4.1.1), but in close proximity to (approximately 11 km south of) the southern boundary of the Murchison bioregion (Section 4.1.2).

4.1.1 Coolgardie Bioregion

The Coolgardie bioregion is described by Environment Australia (2000) as:

“Mallees and scrubs on sandplains associated with lateritised uplands, playas and granite outcrops. Diverse woodlands rich in endemic eucalypts, on low greenstone hills, valley alluvials and broad plains of calcareous earths. In the west, the scrubs are rich in endemic Proteaceae, in the east they are rich in endemic acacias.”

The bioregion is further divided into three subregions: from west to east, these are Southern Cross, Eastern Goldfields and Mardabilla. The study area is located near the northern boundary of the Southern Cross subregion, which is described by Cowan et al. (2001) as:

“Valleys have Quaternary duplex and gradational soils, and include chains of saline playalakes. Diverse Eucalyptus woodlands (Eucalyptus salmonophloia, E. salubris, E. transcontinentalis, E. longicornis) rich in endemic eucalypts occur around these salt lakes, on the low greenstone hills, valley alluvials and broad plains of calcareous earths. The salt lake surfaces support dwarf shrublands of samphire. The granite basement outcrops at mid-levels in the landscape and supports swards of Borya constricta, with stands of Acacia acuminata and Eucalyptus loxophleba. Upper levels in the landscape are the eroded remnants of a lateritic duricrust yielding yellow sandplains, gravelly sandplains and laterite breakaways. Mallees (Eucalyptus leptopoda, E. platycorys and E. scyphocalyx) and scrub-heaths (Allocasuarina corniculata, Callitris preissii, Melaleuca uncinata and Acacia beauverdiana) occur on these uplands, as well as on sand lunettes associated with playas along the broad valley floors, and sand sheets around the granite outcrops. The scrubs are rich in endemic acacias and Myrtaceae.”

Known rare features of the Southern Cross subregion include numerous DRF, such as *Tetratheca aphylla* subsp. *aphylla*, *T. paynterae* and *Gastrolobium graniticum*. The banded-ironstone hills in the area are also recognised as centres of endemism for the subregion, while the sandplains support endemic acacias and Myrtaceae, and the Goldfields woodlands support endemic eucalypts (Cowan et al. 2001). No TECs are listed under the EPBC Act 1999 for the Yilgarn or Goldfields regions. No communities are classified by the DEC as TECs for these regions (see DEC 2010a), however several PECS are listed (DEC 2010b; see Section 4.6).

4.1.2 Murchison Bioregion

The Murchison bioregion is described by Environment Australia (2000) as:

“Mulga low woodlands, often rich in ephemerals, on outcrop hardpan washplains and fine-textured Quaternary alluvial and eluvial surfaces mantling granitic and greenstone strata of the northern part of the Yilgarn Craton. Surfaces associated with occluded drainage occur throughout, with hummock grasslands on Quaternary sandplains, saltbush shrublands on calcareous soils and Halosarcia low shrublands on saline alluvia. Areas of red sandplains with mallee-mulga parkland over hummock grasslands occur in the east.”

The bioregion is divided into two subregions, East and Western Murchison, with the study area located near the southern boundary of the former.

The East Murchison subregion is described by Cowan (2001) as:

"The northern parts of the 'Southern Cross' and 'Eastern Goldfields' Terrains of the Yilgarn Craton. Characterised by its internal drainage, and extensive areas of elevated red desert sandplains with minimal dune development. Salt lake systems associated with the occluded Paleodrainage system. Broad plains of red-brown soils and breakaway complexes as well as red sandplains. Vegetation is dominated by Mulga Woodlands, often rich in ephemerals; hummock grasslands, saltbush shrublands and Halosarcia shrublands."

The influence of this subregion can be seen in the Deception locality in the abundance of Mulga (*Acacia aneura*) tall shrublands on the plains.

4.2 Geology

The Geological Survey of Western Australia (GSWA) has completed 1: 2,500,000 scale mapping of the Goldfields region. According to this, the study area lies on Archaean metamorphosed basic and ultra-basic volcanic and intrusive rocks (GSWA 2011). The area forms part of the Yilgarn Craton, which makes up a significant portion of the area of Western Australia and is one of the oldest, most stable parts of the earth's surface (Gibson et al. 2007). The main components of the Yilgarn Craton are granite, interspersed with greenstone and banded iron formation (BIF) ranges (Gibson et al. 2007).

The BIF ranges of the Yilgarn Craton make up a small proportion of the land in the region, which is predominantly flat. They are ancient, isolated features, which have different geology, soils and biological aspects to those found in the surrounding land. The ranges are known for their unique compositions of flora and fauna and for supporting rare and endemic plant species (EPA 2002b, DEC 2007). Based on survey information to date, every range is distinctly different from the other sampled ranges from an ecological perspective (DEC 2007).

4.3 Conservation Reserves in the Locality of the Study Area

The Helena and Aurora Range Conservation Park and the Mount Manning Nature Reserve (which abuts the eastern boundary of the Conservation Park) are located approximately 10 km east of the Deception Deposit study area (Figure 2.1). These are currently listed as 'C Class' reserves, however the EPA and DEC have recommended these be upgraded to 'A Class' reserves (EPA 2007). An area containing significant portions of the Die Hardy, Jackson and Windarling Ranges has also been nominated for inclusion into this 'A Class' reserve (EPA 2007), and this encompasses the Deception Deposit study area.

4.4 Land Systems (Rangelands)

Land systems (rangelands) mapping covering the study area has been prepared by the Western Australian Department of Agriculture (Payne et al. 1998). Land systems are composed of repeating patterns of topography, soils, and vegetation (Christian and Stewart 1953) (i.e. a series of "land units" that occur on characteristic physiographic types within the land system).

The Deception Deposit study area intersects eight land systems, each of which is briefly described in Table 4.1. Three of these land systems (Moriarty, Tealtoo and Dryandra) comprise more than 87% of the total study area (Table 4.1, Figure 4.1).

The amount of each land system within the Deception study area comprises less than 0.5% of their total mapped area in the rangelands. It should be noted that the current published land systems mapping extends only 9.5 km south of the study area, hence it is likely that the total mapped areas of these eight land systems are actually larger than those shown in Table 4.1.

Table 4.1: Land systems of the Deception Deposit study area and their approximate extent (descriptions from Payne et al. 1998).

Land System (Code)	Description	Approximate Extent within Study Area (ha)	Total Mapped Area of Land System (ha)
Bandy (RGEBAN)	Gritty-surfaced plains and low outcrops of granite with scattered <i>Acacia</i> shrublands	5	142,268
Bannar (RGEBNR)	Level to gently undulating sandy plains with <i>Acacia</i> shrublands, commonly with patchy native pines and mallees	64	693,757
Campsite (RGE CAM)	Alluvial plains supporting eucalypt woodlands with saltbush understoreys and eucalypt- <i>Acacia</i> shrublands	12	148,931
Dryandra (RGE DRY)	Ridges of banded iron formation supporting dense mixed shrublands with emergent native pines, mallees and casuarinas	161	35,304
Illaara (RGE ILL)	Plains with ironstone gravel or calcrete mantles supporting eucalypt woodlands and mulga-casuarina shrublands	<1	73,133
Moriarty (RGE MOR)	Low greenstone rises and stony plains supporting halophytic and <i>Acacia</i> shrublands with patchy eucalypt overstoreys	587	259,559
Pindar (RGE PID)	Loamy plains surrounded by sandplain supporting York Gum (<i>Eucalyptus loxophleba</i>) woodlands and <i>Acacia</i> shrublands	61	151,876
Tealtoo (RGE TEA)	Level to gently undulating loamy plains with fine ironstone lag gravel supporting dense <i>Acacia</i> shrublands	201	69,343
Total		1,091	

4.5 Beard's Vegetation Mapping

Beard (1975) mapped the vegetation of the South-west of WA at a scale of 1: 1,000,000. The Deception Deposit study area lies within the Coolgardie Botanical District of the South Western Interzone as defined by Beard. Vegetation of the interzone is described as being dominated by York Gum (*Eucalyptus loxophleba*) and Salmon Gum (*E. salmonophloia*) woodlands and thickets containing numerous *Acacia* species (Payne et al. 1998).

The study area intersects five of Beard's vegetation units, with the majority of the area mapped as the Jackson 141 unit (Figure 4.1, Table 4.2). Given the broad nature of Beard's mapping, these units are only broadly applicable to the vegetation actually occurring on site (see Section 5.0).

Table 4.2: Beard (1975) vegetation mapping units intersected by the Deception Deposit study area.

Beard Code	Description	Area (ha)
Jackson 18	Low woodland of Mulga (<i>Acacia aneura</i>)	4
Jackson 128	Bare areas (rock outcrops)	5
Jackson 141	Medium woodland with York Gum (<i>Eucalyptus loxophleba</i>), Salmon Gum (<i>E. salmonophloia</i>) and Gimlet (<i>E. salubris</i>)	1,019
Jackson 144	Medium woodland of Wandoo (<i>Eucalyptus capillosa</i>), Salmon Gum, Morrel (<i>E. longicornis</i>), Gimlet and Rough-fruited Mallee (<i>E. corrugata</i>)	57
Jackson 437	Shrublands with mixed <i>Acacia</i> thickets on sandplains	5
Total		1,091

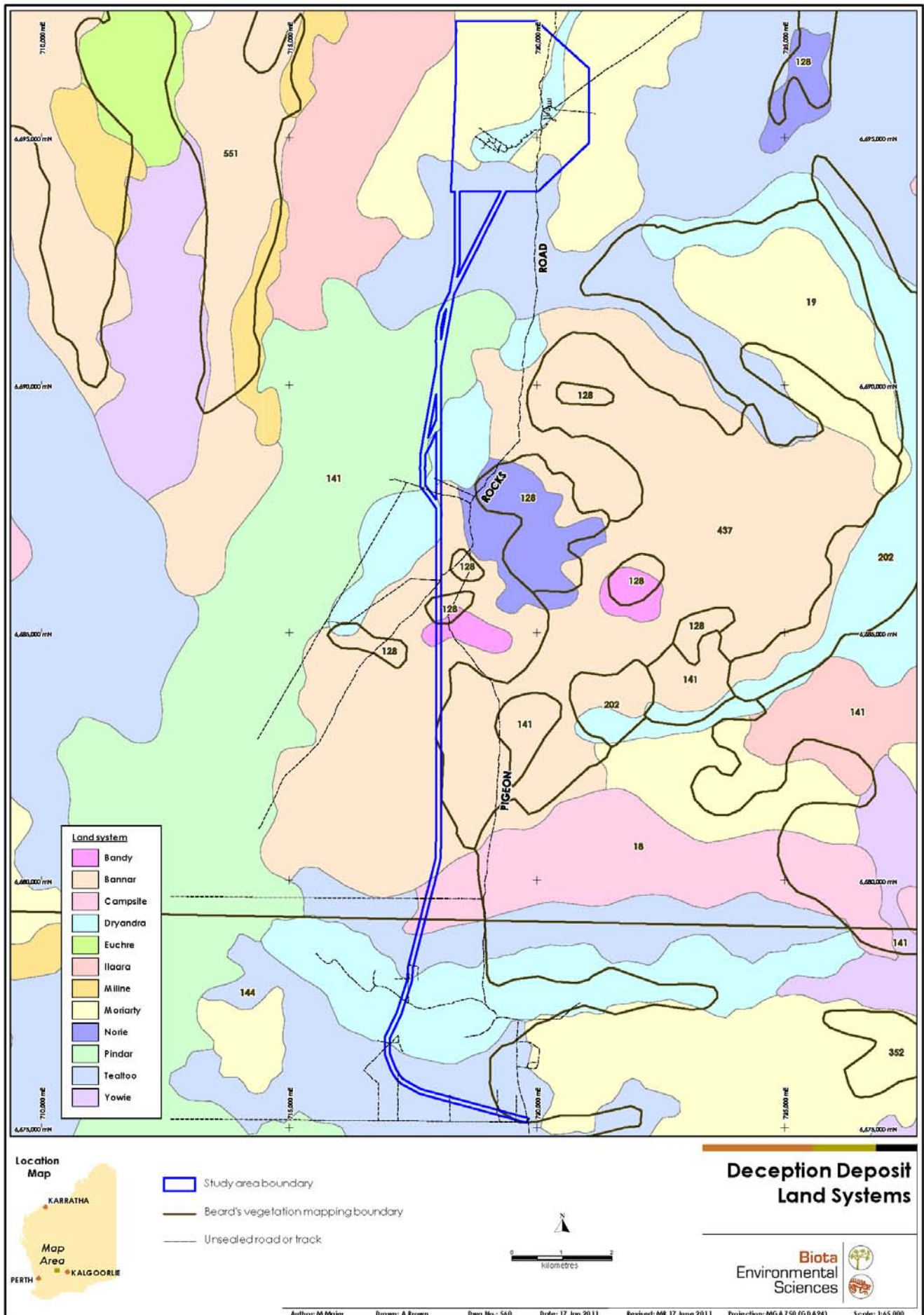


Figure 4.1: Land systems and Beard's (1975) vegetation mapping units for the locality including the Deception Deposit study area.

4.6 Significant Vegetation Communities known from the Locality

4.6.1 Threatened Ecological Communities

No TECs listed under the *EPBC Act 1999* occur within the Coolgardie bioregion. No TECs are classified by the DEC for the Coolgardie bioregion (DEC 2010a).

4.6.2 Priority Ecological Communities

A number of Priority 1 PECs occur in the broader locality around Deception, all of which are associated with BIF ranges.

One vegetation unit recorded within the study area is analogous to a component of the 'Windarling Ranges vegetation complex (BIF)' (DEC 2010b). *Ptilotus obovatus* dwarf heath forms part of this PEC at Windarling (Western Botanical 2009). An analogous *Ptilotus obovatus* var. *obovatus* heath on outcropping rock was found in the mine area (vegetation unit 4.01; see Section 5.2.3; Appendix 5).

In addition to the above, 'Banded ironstone hills with *Dryandra arborea*' occurring on Unallocated Crown Land in the north-west Menzies area are listed as a PEC (DEC 2010b). A stand of *Dryandra arborea* tall shrubland was recorded in the mine area (vegetation unit 1.06; see Section 5.2.1; Appendix 5).

A number of other PECs listed by the DEC occur within 30 km of the Deception Deposit study area:

- Die Hardy Range/Diemal vegetation complex (BIF).
- Mount Jackson Range vegetation complex (BIF).
- Helena and Aurora Range vegetation complexes (BIF).
- Mount Manning Range vegetation complex (BIF).

4.7 Significant Flora known from the Locality

4.7.1 Legislative and Administrative Levels of Flora Protection

In Western Australia, all native flora are protected under the *Wildlife Conservation Act 1950*. A number of flora species are assigned an additional level of conservation significance and protection based on the number of known populations and the threats to these populations. Flora species of the highest conservation significance are declared as rare flora (DRF) under the *Wildlife Conservation (Rare Flora) Notice 2010(2)* (Minister for Environment; Youth 2010).

At the Federal level, species of the highest conservation significance are listed as threatened species under the Commonwealth *EPBC Act 1999*. These include many, but not all, of the species listed as DRF under the *Wildlife Conservation Act 1950*.

Species that appear to be rare or threatened, but for which there is insufficient information to evaluate their conservation significance, are assigned to one of four Priority flora categories by DEC (see DEC 2010b). This is an administrative measure and not a form of legislative protection.

The DEC framework for ranking flora species of conservation significance is presented in Appendix 1.

4.7.2 Declared Rare Flora

Based on the database search results, two DRF species (one with two subspecies) have been recorded previously in the vicinity of the Deception Deposit study area. However, it is considered that the records of one of these (*Tetralthea paynterae* subsp. *cremnobata*) are erroneous, and that this species does not occur at the stated coordinates. A brief description of each taxon is provided below:

- ***Ricinocarpos brevis***

DRF (extant)

Ricinocarpos brevis is listed as Endangered under the EPBC Act 1999. The following information was sourced from the draft Interim Recovery Plan for this species (DEC in prep.), which was provided by Ms Jennifer Jackson (DEC) to Mr Ben Eckermann (Western Botanical).

Ricinocarpos brevis is a shrub growing up to 1.8 m high and 1.5 m wide. Flowering generally occurs during the cooler months and follows seasonal rainfall events. This species is currently known from three populations north of Southern Cross. On the Windarling Range, this species occurs on rocky ironstone and weathered basalt on mid to upper debris slopes, and is more prevalent on sheltered, cooler south-facing slopes. At the Johnston Range, this species has been recorded on the gently inclined lower slopes of deep sand over gravel. At Perrinvale, the population occurs predominantly on the southern slopes of a rocky ridge face.

Database searches yielded five locations of this species from the Windarling Range. The closest location to the study area is at the Windarling Range W1 Deposit, 620 m east of the Deception haul road corridor. As there is suitable habitat for this species (ridges, outcropping rock and debris slopes) within the study area, this species could occur.

- ***Tetralthea paynterae* subsp. *cremnobata***

DRF (extant)

Tetralthea paynterae is listed as Endangered under the EPBC Act 1999. This multi-stemmed, leafless shrub grows to 1 m high and has purple flowers in June (FloraBase 2011). It is restricted to cracks within outcrops, ridges, breakaways and rocky slopes in the Coolgardie bioregion; it does not grow away from these massive rocky sites (B. Eckermann, Western Botanical, pers. comm. 2011).

Database searches yielded two locations of this species from ironstone cliffs and ridges in the Windarling locality, the closest of which is 3.2 km east of the haul road corridor, however these determinations are believed to be erroneous and should rather refer to *Tetralthea paynterae* subsp. *paynterae* (B. Eckermann, Western Botanical, pers. comm. 2011). Nine locations were identified in the Die Hardy Range, approximately 5 km east of the Deception haul road corridor and 5 km southeast of the Deception mine area. This subspecies is considered unlikely to occur in the Deception Deposit study area, as it has not previously been recorded between Windarling and the Die Hardy Range and there is no suitable habitat in the Deception study area (B. Eckermann, Western Botanical, pers. comm. 2011).

- ***Tetralthea paynterae* subsp. *paynterae***

DRF (extant)

This subspecies of *Tetralthea paynterae* grows to 0.5 m high and has pink flowers (FloraBase 2011). It is restricted to massive ironstone / iron-rich outcropping rock habitats. Database searches yielded 11 locations of this species from the Windarling locality, the closest of which is 3 km east of the Deception haul road corridor. As there is no massive rocky habitat in the Deception study area, *Tetralthea paynterae* subsp. *paynterae* is unlikely to occur.

4.7.3 Priority Flora

Two Priority 3 and two Priority 4 flora species have been recorded during previous surveys in the vicinity of the Deception Deposit study area (Western Botanical 2008, 2009, 2010; Scott Reiffer, Botanist, pers. comm. 2010). Some of these populations are within, or in close proximity to, the current study area.

A brief description of each species is provided below:

• ***Baeckea* sp. Parker Range (M. Hislop & F. Hart M H 2968) Priority 3**

This rounded, erect shrub grows to 1.5 m in height and has pink flowers in June (Plate 4.1; FloraBase 2011). Voucher specimen information taken from FloraBase lists this species as occurring on yellow to orange sandy and gravelly loam on gently undulating sandplains and low ridges. The database searches yielded a single record of this species, from approximately 2 km east of the Deception mine area. However, 596 individuals of this species have been recorded north of the mine area (Western Botanical 2010), with the closest of these locations 250 m from the northern boundary of the study area. As there is suitable habitat within the study area, this species was considered likely to occur, and it was subsequently recorded during field work (Section 6.3.2).



Baeckea sp. Parker Range (M. Hislop & F. Hort MH2968) Photos: G.F.Craig

Plate 4.1: ***Baeckea* sp. Parker Range (M. Hislop & F. Hart MH2968) flowers and habit (Photo courtesy of FloraBase, accessed on 12/11/10).**

• ***Spartothamnella* sp. Helena & Aurora Range (P. G. Armstrong 1) Priority 3**

This multi-stemmed, woolly shrub has white flowers and red fruit, drying to brown (Plate 4.2). It occurs in the Coolgardie, Yalgoo and Avon Wheatbelt bioregions, and is currently represented in the WA Herbarium by 13 vouchered specimens. The database searches yielded three locations of this species from the vicinity of the Deception Deposit study area, the closest of which was 130 m west of the haul road corridor. However, a single individual was recorded near proposed drill lines within the Deception area in 2007 (Western Botanical 2008) and 21 individuals were subsequently located in this area by the DEC in 2009 (see Western Botanical 2010). This species was therefore known to be present in the study area.

Over 50 locations of this species have been recorded from an area to the west of the haul road corridor (Scott Reiffer, Botanist, pers. comm. 2010), and these would appear to correlate with one of the locations identified through the DEC database searches. A further 35 individuals have been recorded to the north of the mine area (Western Botanical 2010). Additional locations of this species were recorded from the study area during the current field work, which was expected given the above (Section 6.3.2).



Spartothamnella sp. Helena & Aurora Range (P.G. Armstrong 155-109)
Photos: G. Cockerton & S. McNee

Plate 4.2: *Spartothamnella* sp. Helena & Aurora Range (P. G. Armstrong 1) flowers, fruit, leaves and habit (Photo courtesy of FloraBase accessed on 12/11/10).

- ***Dryandra arborea***

Priority 4

This species grows to 8 m in height and occurs in stony loams on ironstone hills. The yellow flowers may appear at any time of year, following adequate rainfall (Western Botanical 2009; Plate 4.3). Three records of this species were returned from the database searches, with the closest being 4.3 km south of the haul road. However, field work carried out by Western Botanical had identified seven *Dryandra arborea* individuals from a gently sloping ridge within the mine area (Western Botanical 2009). This population was revisited during the current field work, with an additional individual recorded in this area (Section 6.3.2).



Plate 4.3: *Dryandra arborea*: flowers and fruit.

- ***Eucalyptus formanii***

Priority 4

This tree species, occasionally a mallee, grows to 11 m high and often occurs on red sand. *Eucalyptus formanii* has flaky, fibrous bark and very narrow, erect leaves. The white flowers occur from December to April (FloraBase 2011). The database searches yielded 25 locations of this species in the vicinity of Deception, with the closest being 750 m east of the haul road corridor. However, a total of 77 individuals have been recorded during previous survey work in the Deception mine area and the Deception North prospect (Western Botanical 2009, 2010), some of which lie within the current mine area. The species is therefore known to occur in the study area, and additional locations were recorded during the current field work (Section 6.3.2).



Plate 4.4: *Eucalyptus formanii* leaves and growth form (Photo courtesy of FloraBase accessed on 12/11/10).

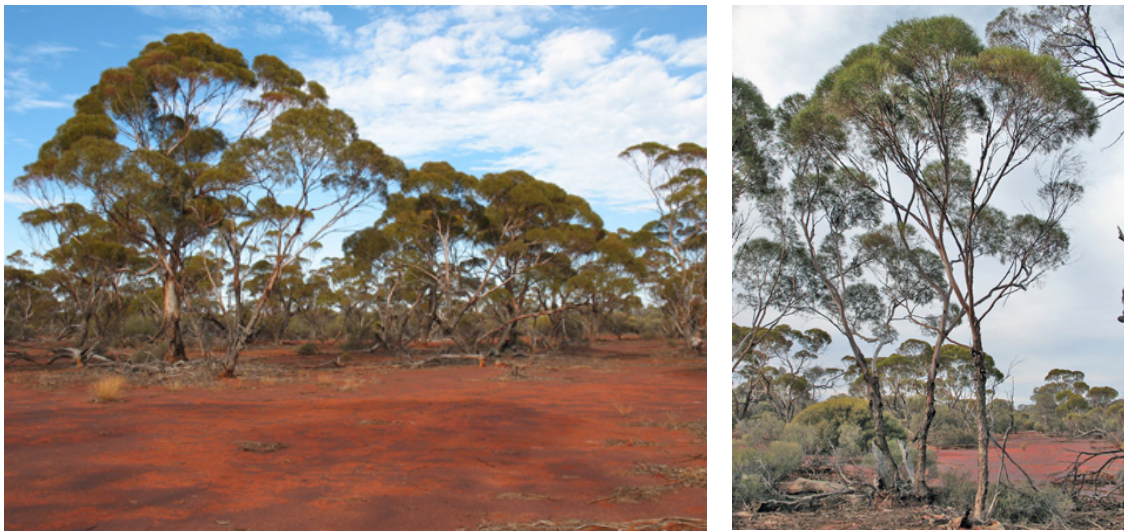


Plate 4.5: *Eucalyptus formanii* habitat and growth form.

Database searches returned 13 additional Priority flora species known from the locality. These are described below:

• ***Beyeria rostellata***

Priority 1

This species has been vouchered from two locations in the Coolgardie bioregion, with specimens submitted from Koolyanobbing and Mt Jackson (FloraBase 2011). Two records were returned from the DEC database search from near Windarling, 900 m east and 900 m west of the southern section of the Deception haul road corridor. These records are not supported by voucher specimens, and are considered likely to be mis-determinations of *Ricinocarpus brevis*. *Beyeria rostellata* is not considered to occur as far north as the Deception Deposit study area (B. Eckermann, Western Botanical, pers. comm. 2011). This species has been recorded mainly, but not exclusively, from rocky habitat.

• ***Baekkea* sp. Pigeon Rocks (D. Grace DJP 281)**

Priority 1

This shrub to 1 m has white flowers in October and occurs on red sandy clay and granite. There are six records of this species from the vicinity of the study area, five of which are on granite outcrops. The coordinates place the sixth record, which is the closest to the study area, on the flats 600 m south of Pigeon Rocks and 720 m to the east of the haul road corridor. However, the site description for this record is listed as being in a "vegetation depression near top of granite outcrop". It is therefore considered that all of the records in the locality are associated

directly with the large granite outcrops on or near Pigeon Rocks. This species is unlikely to occur within the adjacent haul road corridor, as no large granite outcrops are present.

- ***Malleostemon* sp. Adelong (G. J. Keighery 11825)** **Priority 2**
 This low, spreading shrub has white flowers in October and grows to 0.3 m high. It occurs in red sandy substrates in the Coolgardie and Murchison bioregions (FloraBase 2011). The database searches yielded one record of this species: the location coordinates place this 400 m north of Pigeon Rocks, 760 m east of the haul road corridor¹². As the soil type favoured by this species is present within the study area, it is considered that *Malleostemon* sp. Adelong (G. J. Keighery 11825) could occur.
- ***Grevillea eriobotrya*** **Priority 3**
Grevillea eriobotrya is an erect shrub growing to 4 m high, which is described as occurring on yellow sand over sandy loam and gravelly clay on the crests of low hills, among mixed tall shrubs (Olde and Marriott 1995). The white flowers occur from September to December. There is one record of this species from a location 5.9 km east of the haul road corridor, occurring in a *Callitris* woodland on red sand. As similar habitat occurs in the study area, it is possible that this species could occur.
- ***Grevillea georgeana*** **Priority 3**
Grevillea georgeana is a spreading shrub to 3 m high and up to 4 m wide, with red, pink and cream flowers in January to March and September to November (FloraBase 2011). It occurs in stony loam and clay on plains, as well as on ironstone slopes and hilltops. There are seven records of this species in the vicinity of the study area, the closest of which is 7.5 km east of the haul road corridor. As these records are from habitats and soils that are present in the study area, it is possible that this species could occur.
- ***Lepidosperma ferricola*** **Priority 3**
 This perennial sedge grows to 1 m in height and has been collected from well-drained stony loams and silty clays on rocky ledges, scree slopes, crevices and ravines. There are two records of this species from rocky cliff / scree slope habitat on the western end of the Die Hardy Range, 10.5 km east of the study area. *Lepidosperma ferricola* would be unlikely to occur in the Deception study area, as no suitable habitat is present.
- ***Lepidosperma* sp. Pigeon Rocks (H. Pringle 30237)** **Priority 3**
 This sedge species has been recorded twice in the Deception locality, from yellow sandy clay and red sandy clay near Pigeon Rocks. Although the coordinates provided place these records on the flats 400-600 m north and south of this granite outcrop, it is considered that these are somewhat in error, and that the locations are much more closely associated with the base of the outcrop itself. Based on the stated coordinates, the closest record is 720 m east of the haul road corridor. This species could occur within the haul road corridor given the close proximity of this population, however this is considered unlikely due to the absence of any large granite outcrops (B. Eckermann, Western Botanical, pers. comm. 2011).
- ***Mirbelia* sp. Helena & Aurora (B. J. Lepschi 2003)** **Priority 3**
 This pungent, leafless shrub grows to 1.2 m high and has yellow and brown flowers in September. It has been recorded from the upper slopes of stony hills, occurring in stony loam over ironstone and in clayey sand (FloraBase 2011). The database searches yielded four records from the locality, with the closest location being 8.2 km to the east of the haul road corridor on the Die Hardy Range, in red-brown loam on a BIF range. As this soil type and habitat is present in the study area, this species could occur, however this is considered unlikely (B. Eckermann, Western Botanical, pers. comm. 2011).
- ***Pseudactinia* sp. Bungalbin Hill (F. H. & M. P. Mollemans)** **Priority 3**
 This species is a small shrub to 0.8 m high with pink or red flowers from July to October. It has been recorded on yellow sand and yellow-brown loamy sand (FloraBase 2011). One record of this species was returned from the database searches, from a mixed woodland community on

¹² It appears that these coordinates may have been assigned on the basis of the locality (listed simply as "Pigeon Rocks"), hence these may not be entirely accurate.

pale orange sandplain 6.7 km to the east of the study area. Associated species at this location included *Eucalyptus formanii*, *Callitris columellaris* and *Casuarina* spp. over an understorey of *Acacia* species. Given that the species associated with the nearby population are widespread through the haul road corridor and there are extensive areas of sandy habitat, it is possible that this species could occur.

- ***Stenanthemum newbeyi***

Priority 3

This erect, spreading shrub grows to 1.6 m high and has yellow flowers in spring and summer. It occurs on hillslopes in clayey sand, clay or loam over laterite or ironstone (FloraBase 2011). There is one record of this species from 12.7 km east of the haul road corridor. Although this habitat is found in the study area, *Stenanthemum newbeyi* is not considered to occur as far north as the Deception Deposit study area (B. Eckermann, Western Botanical, pers. comm. 2011).

- ***Styphelia* sp. Bullfinch (M. Hislop 3574)**

Priority 3

This species has pungent leaves and white flowers, and is known from the Coolgardie and Yalgoo bioregions (FloraBase 2011). One record was returned from the database searches, from 10.5 km to the east of the haul road on a decaying granite outcrop. As this habitat type is present in the study area, specifically through the central section of the haul road corridor, this species could occur.

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5.0 Vegetation

5.1 Overview

Thirty-three vegetation units were identified within the Deception Deposit study area, three of which were not recorded from the mine area or current haul road alignment (units 1.09, 1.10 and 1.11). These were grouped into three broad structural formations:

- Tall shrublands (codes with "1." prefixes): 18 units; tall shrublands dominated by mixtures of *Acacia* species, occasionally *Melaleuca* species; sometimes with scattered trees;
- Woodlands (codes with "2." prefixes): 14 units; open woodlands dominated by various Eucalypts, occasionally *Casuarina* species, over a variable shrub and/or spinifex understorey;
- Low shrublands (codes with "4." prefixes): 1 unit; low shrublands dominated by *Ptilotus obovatus* var. *obovatus*.

The distribution of each of the vegetation units is shown on the mapping in Appendix 5. Where similar vegetation has previously been recorded from the Windarling area, the equivalent units are presented in Table 5.1 (this information was supplied by Western Botanical). The coding for the maps in Appendix 5 has been retained from the Deception study, as several of the Deception vegetation units were not assessed at Windarling, and therefore lacked codes from the latter study.

A number of the vegetation units contained Mulga (*Acacia "aneura"*) as a dominant species. This species has recently been revised by Mr Bruce Maslin of the WA Herbarium, and a number of the previously identified varieties have been raised to species level as new taxa, though these are still only manuscript names (e.g. *Acacia caesaneura*, *A. mulganeura*, etc.). Given that a number of different types of Mulga often occur together, *Acacia "aneura"* has been retained to denote Mulga in the broad sense within the vegetation unit descriptions in this report. Further detail on the specific taxa of Mulga recorded is provided in the associated species list for each vegetation unit.

5.2 Vegetation Sub-associations

Each vegetation unit is briefly described in the following sections. Most of the units were relatively distinct and were defined at the sub-association level (as per the NVIS; see Section 3.2.3). However, a small number of the units were more variable and contain more than one sub-association. For example:

- Unit 1.04: in this vegetation type, the overstorey ranged from heavily dominated by *Melaleuca hamata*, to dominated by a mixture of *Acacia cockertoniana* and *Melaleuca*; some areas of duricrust were particularly species poor, and these grouped out separately in the floristic analysis (see Section 5.3).
- Unit 1.08 was variable with respect to the dominant species but was distinguished from the other units by the presence of various combinations of a distinct suite of small-flowered myrtaceous shrubs, *Grevillea erectiloba* and sometimes *Melaleuca hamata*.
- Unit 1.14 comprised a complex of vegetation types occurring on, above and below a breakaway.

Table 5.1: Relationship between vegetation units identified for the Deception study area and their equivalents from Windarling (data supplied by Western Botanical).

Deception Mapping Code and Vegetation Description	Equivalent Windarling Mapping Code and Vegetation Description
1.01: <i>Acacia cockertoniana</i> , <i>A. ramulosa</i> var. <i>ramulosa</i> tall shrubland over <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Eremophila clarkei</i> , <i>Dodonaea rigida</i> open shrubland	1.09: <i>Acacia cockertoniana</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i> Shrubland
1.02: <i>Acacia "aneura"</i> , <i>A. ramulosa</i> var. <i>ramulosa</i> tall shrubland	1.11: <i>Acacia aneura</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i> Shrubland
1.03: <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831), <i>A. ramulosa</i> var. <i>ramulosa</i> tall shrubland over <i>Philotheca brucei</i> subsp. <i>brucei</i> open shrubland over <i>Eremophila metallicorum</i> low open shrubland	1.24: <i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831) Shrubland
1.04: <i>Melaleuca hamata</i> , (<i>M. leiocarpa</i> , <i>Acacia cockertoniana</i>) tall shrubland over <i>Eremophila latrobei</i> subsp. <i>latrobei</i> open shrubland	1.20: <i>Melaleuca hamata</i> Shrubland
1.05: <i>Acacia cockertoniana</i> , <i>Melaleuca leiocarpa</i> , <i>Calycopeplus paucifolius</i> tall shrubland over <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207) shrubland	Similar to 1.26: <i>Calycopeplus paucifolius</i> , <i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i> Shrubland (Deception communities lack <i>Allocasuarina</i>)
1.06: <i>Dryandra arborea</i> (<i>Acacia cockertoniana</i> , <i>Eremophila clarkei</i>) tall shrubland over <i>Philotheca brucei</i> subsp. <i>brucei</i> shrubland over <i>Olearia humilis</i> scattered low shrubs	1.03: <i>Dryandra arborea</i> Shrubland
1.07: <i>Acacia effusifolia</i> tall shrubland over mixed open shrubland over <i>Monachather paradoxus</i> , <i>Amphipogon caricinus</i> var. <i>caricinus</i> very open grassland	1.19: <i>Acacia effusifolia</i> Shrubland
1.08: <i>Acacia effusifolia</i> tall open shrubland over <i>Grevillea erectiloba</i> , <i>Baeckea elderiana</i> shrubland over <i>Amphipogon caricinus</i> var. <i>caricinus</i> very open grassland	1.13: <i>Acacia effusifolia</i> , <i>Baeckea elderiana</i> Shrubland
1.09: <i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i> tall open scrub over <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207) open shrubland over <i>Hibbertia eatoniae</i> scattered low shrubs	1.21: <i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i> Thicket
1.10: <i>Acacia "aneura"</i> , <i>A. ramulosa</i> var. <i>ramulosa</i> , <i>A. ?</i> sp. Mt Jackson (B. Ryan 176), (<i>Eremophila clarkei</i>) tall shrubland over <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> shrubland	1.04: <i>Acacia aneura</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>Acacia</i> sp. Mt. Jackson (B Ryan 176) Shrubland
1.11: <i>Acacia "aneura"</i> tall shrubland over <i>Eremophila latrobei</i> subsp. <i>latrobei</i> open shrubland over <i>Prostanthera althoferi</i> subsp. <i>althoferi</i> , <i>Olearia humilis</i> low open shrubland	1.14: <i>Acacia aneura</i> Shrubland
1.12: <i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>A. sp.</i> narrow phyllode (B.R. Maslin 7831) tall open shrubland over <i>Eremophila forrestii</i> subsp. <i>forrestii</i> open shrubland over very open mixed annual grassland/herbland	No equivalent
1.13: <i>Acacia quadrimarginea</i> tall open shrubland over <i>Eremophila forrestii</i> subsp. <i>forrestii</i> open shrubland over <i>Mirbelia microphylla</i> scattered low shrubs over <i>Borya constricta</i> very open herbland and mixed very open grassland	No equivalent
1.14: <i>Acacia cockertoniana</i> , <i>Melaleuca leiocarpa</i> tall open shrubland to tall shrubland over <i>Alyxia buxifolia</i> , <i>Grevillea extorris</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> open shrubland to shrubland	No equivalent
1.15: <i>Acacia cockertoniana</i> , (<i>A. effusifolia</i>) tall shrubland over <i>Eremophila forrestii</i> subsp. <i>forrestii</i> , <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207) shrubland over <i>Prostanthera althoferi</i> subsp. <i>althoferi</i> scattered low shrubs	No equivalent
1.16: <i>Acacia effusifolia</i> tall open shrubland over <i>Thryptomene kochii</i> open shrubland over <i>Euryomyrtus patrickiae</i> scattered low shrubs over <i>Triodia tomentosa</i> or <i>T. rigidissima</i> open hummock grassland	No equivalent
1.17: <i>Melaleuca leiocarpa</i> , <i>Acacia cockertoniana</i> tall open shrubland over <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Philotheca brucei</i> subsp. <i>brucei</i> open shrubland over <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207) scattered low shrubs over <i>Chamaexeros macranthera</i> scattered herbs	Similar to 1.05: <i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i> , <i>Melaleuca leiocarpa</i> Shrubland (Deception communities lack <i>Allocasuarina</i>)
1.18: <i>Casuarina pauper</i> low open woodland over <i>Acacia cockertoniana</i> , <i>A. ramulosa</i> var. <i>ramulosa</i> , <i>A. sp.</i> narrow phyllode (B.R. Maslin 7831), <i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i> tall shrubland over <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Eremophila clarkei</i> open shrubland over <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260) scattered low shrubs	No equivalent

Deception Mapping Code and Vegetation Description	Equivalent Windarling Mapping Code and Vegetation Description
2.01: <i>Eucalyptus salubris</i> and/or <i>E. loxophleba</i> subsp. <i>lissophloia</i> low open woodland over <i>Eremophila scoparia</i> (<i>Atriplex nummularia</i> subsp. <i>spathulata</i>) scattered tall shrubs over <i>A. stipitata</i> low open shrubland over <i>Sclerolaena diacantha</i> , <i>S. fusiformis</i> very open herbland	2.10: <i>Eucalyptus salubris</i> Low Woodland (interchanges with York Gum at Deception)
2.02: <i>Eucalyptus longissima</i> , (<i>E. corrugata</i>) very open tree mallee over <i>Acacia ramulosa</i> var. <i>ramulosa</i> tall open shrubland over <i>Eremophila clarkei</i> , <i>E. decipiens</i> subsp. <i>decipiens</i> , <i>Scaevola spinescens</i> open shrubland over <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> low open shrubland	2.09: <i>Eucalyptus longissima</i> , <i>Eucalyptus corrugata</i> Low Woodland over <i>Acacia aneura</i> , <i>Acacia ramulosa</i> var. <i>ramulosa</i> Shrubland
2.03: <i>Casuarina pauper</i> low open woodland over <i>Acacia andrewsii</i> , <i>Bossiaea walkeri</i> shrubland over <i>Grevillea acuaria</i> , <i>A. acanthoclada</i> subsp. <i>glaucescens</i> low open shrubland	2.15: <i>Casuarina pauper</i> Open Low Woodland over <i>Acacia acanthoclada</i> subsp. <i>glaucescens</i> Low Shrubland
2.04: <i>Eucalyptus corrugata</i> woodland over <i>Acacia acanthoclada</i> subsp. <i>glaucescens</i> , (<i>Olearia muelleri</i> , <i>Ptilotus obovatus</i>) low shrubland	2.11: <i>Eucalyptus corrugata</i> Open Low Woodland over <i>Acacia acanthoclada</i> subsp. <i>glaucescens</i> Low Shrubland
2.05: <i>Eucalyptus longissima</i> , (<i>E. corrugata</i>) very open tree mallee over <i>Acacia cockertoniana</i> tall shrubland over <i>Eremophila clarkei</i> , <i>E. decipiens</i> subsp. <i>decipiens</i> , <i>Philothea brucei</i> subsp. <i>brucei</i> open shrubland over <i>Olearia humilis</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> scattered low shrubs	Similar to 2.07: <i>Eucalyptus longissima</i> Open Low Woodland over <i>Acacia effusifolia</i> , <i>Acacia cockertoniana</i> Shrubland (Deception communities lack <i>A. effusifolia</i>)
2.06: <i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i> low open woodland over <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831), (<i>A. ramulosa</i> var. <i>ramulosa</i> , <i>Eremophila caperata</i>) tall shrubland over <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> low open shrubland	Similar to 2.06: <i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i> Low Woodland
2.07: <i>Eucalyptus longissima</i> very open tree mallee over <i>Acacia "aneura"</i> , <i>A. ramulosa</i> var. <i>ramulosa</i> tall open shrubland over <i>Atriplex stipitata</i> , <i>Rhagodia drummondii</i> , <i>Maireana triptera</i> , <i>M. georgei</i> low open shrubland over <i>Sclerolaena diacantha</i> , <i>S. fusiformis</i> very open herbland	No equivalent
2.08: <i>Eucalyptus formanii</i> , (<i>E. celastroides</i> subsp. <i>celastroides</i>) low open woodland over <i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>A. colletioides</i> , <i>A. sp.</i> narrow phyllode (B.R. Maslin 7831) tall open shrubland over <i>Eremophila decipiens</i> subsp. <i>decipiens</i> , <i>E. eriocalyx</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> open shrubland over mixed low open shrubland	No equivalent
2.09: <i>Eucalyptus corrugata</i> open woodland over <i>Westringia cephalantha</i> var. <i>cephalantha</i> open shrubland over <i>Olearia muelleri</i> low open shrubland over <i>Triodia tomentosa</i> scattered hummock grasses	No equivalent
2.10: <i>Callitris columellaris</i> low woodland over <i>Acacia ramulosa</i> var. <i>ramulosa</i> , (<i>A. sp.</i> narrow phyllode (B.R. Maslin 7831)) tall open shrubland over <i>Eremophila decipiens</i> subsp. <i>decipiens</i> , <i>Scaevola spinescens</i> , <i>Olearia pimelioides</i> shrubland	No equivalent
2.11: <i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i> low open woodland over <i>Eremophila caperata</i> open shrubland over <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> low open shrubland	No equivalent
2.12: <i>Eucalyptus celastroides</i> subsp. <i>celastroides</i> very open tree mallee over <i>Acacia ramulosa</i> var. <i>ramulosa</i> tall open shrubland over <i>Philothea brucei</i> subsp. <i>brucei</i> shrubland	No equivalent
2.13: <i>Eucalyptus formanii</i> , (<i>E. concinna</i>) low open woodland over <i>Eremophila caperata</i> , <i>Westringia cephalantha</i> var. <i>cephalantha</i> open shrubland over <i>Triodia tomentosa</i> or <i>T. rigidissima</i> open hummock grassland	No equivalent
2.14: <i>Eucalyptus salmonophloia</i> open woodland over <i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>A. sp.</i> narrow phyllode (B.R. Maslin 7831), <i>A. obtecta</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> tall open shrubland over <i>Senna artemisioides</i> subsp. <i>filifolia</i> , <i>Eremophila decipiens</i> subsp. <i>decipiens</i> open shrubland over <i>Atriplex stipitata</i> , <i>Olearia muelleri</i> , <i>Maireana georgei</i> low open shrubland	None (Salmon Gum/Gimlet over Chenopods is a common community in the Windarling locality, but there were no stands within the Windarling mapping area)
4.01: <i>Ptilotus obovatus</i> var. <i>obovatus</i> low shrubland over <i>Enneapogon caeruleus</i> scattered grasses and <i>Cheilanthes sieberi</i> subsp. <i>sieberi</i> , <i>C. brownii</i> very open herbland	4.02: <i>Ptilotus obovatus</i> var. <i>obovatus</i> Dwarf Shrubland

5.2.1 Tall Shrublands

Mapping Code and Vegetation Description	1.01 <i>Acacia cockertoniana</i> , <i>A. ramulosa</i> var. <i>ramulosa</i> tall shrubland over <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Eremophila clarkei</i> , <i>Dodonaea rigida</i> open shrubland
Habitat and Distribution	Occurred in several stands on mid- to upper-slopes of the main range and other low BIF rises in the Deception mine area
Other Associated Species	Trees / Shrubs: <i>Acacia tetragonophylla</i> , <i>Allocasuarina dielsiana</i> , <i>Brachychiton gregorii</i> , <i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Scaevola spinescens</i> (spiny, fine leaf) Herbs: <i>Cheilanthes adiantoides</i> , <i>Dianella revoluta</i> var. <i>divaricata</i> , <i>Stenopetalum filifolium</i> , <i>Thysanotus manglesianus</i> , <i>Waitzia acuminata</i> var. <i>acuminata</i>
Quadrats and Relevés	DEC10, DEC17, DEC71; DEC-R01, DEC-R13, DEC-R68

Mapping Code and Vegetation Description	1.02 <i>Acacia "aneura"</i> , <i>A. ramulosa</i> var. <i>ramulosa</i> tall shrubland
Habitat and Distribution	Widespread on flats from the mine area to the southern end of the haul road; extended up onto the northern slope of the main range in the mine area
Other Associated Species	Trees / Shrubs: Mulga types included <i>Acacia caesaneura</i> (narrow phyllode variant), <i>A. ? incurvaneura</i> and possible hybrids of <i>A. incurvaneura</i> ; also <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831), <i>A. tetragonophylla</i> , <i>Cryptandra connata</i> , <i>Eremophila eriocalyx</i> , <i>Olearia humilis</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> Herbs: <i>Cheilanthes sieberi</i> subsp. <i>sieberi</i> , <i>Dianella revoluta</i> var. <i>divaricata</i> , <i>Gilruthia osbornei</i> , <i>Stenopetalum filifolium</i> , <i>Waitzia acuminata</i> var. <i>acuminata</i> Grasses: <i>Amphipogon caricinus</i> var. <i>caricinus</i> , <i>Austrostipa elegantissima</i> , <i>A. ? scabra</i> , <i>Monachather paradoxus</i>
Quadrats and Relevés	DEC02, DEC05, DEC27, DEC63; DEC-R04, DEC-R08, DEC-R21, DEC-R27, DEC-R30, DEC-R60



Plate 5.1: Vegetation unit 1.01 (DEC-R13).



Plate 5.2: Vegetation unit 1.02 (DEC-R21).

Mapping Code and Vegetation Description	1.03 <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831), <i>A. ramulosa</i> var. <i>ramulosa</i> tall shrubland over <i>Philotheca brucei</i> subsp. <i>brucei</i> open shrubland over <i>Eremophila metallicorum</i> low open shrubland
Habitat and Distribution	Mainly on flats in the mine area; extending up onto the mid-slopes of the BIF range, west of Pigeon Rocks, in the haul road corridor
Other Associated Species	<p>Trees / Shrubs: <i>Acacia obtecta</i>, <i>A. tetragonophylla</i>, <i>Dodonaea rigida</i>, <i>Eremophila decipiens</i> subsp. <i>decipiens</i>, <i>Phylotus obovatus</i> var. <i>obovatus</i>, <i>Santalum spicatum</i>, <i>Scaevola spinescens</i> (spiny, fine leaf), <i>Senna artemisioides</i> subsp. <i>filifolia</i></p> <p>Perennial climbers: <i>Comesperma integerimum</i></p> <p>Herbs: <i>Calocephalus multiflorus</i>, <i>Dianella revoluta</i> var. <i>divaricata</i>, <i>Waitzia acuminata</i> var. <i>acuminata</i></p>
Quadrats and Relevés	DEC13, DEC20, DEC36; DEC-R06, DEC-R09, DEC-R14, DEC-R38



Plate 5.3: Vegetation unit 1.03 (DEC-R06).

Mapping Code and Vegetation Description	1.04 <i>Melaleuca hamata</i> , (<i>M. leiocarpa</i> , <i>Acacia cockertoniana</i>) tall shrubland over <i>Eremophila latrobei</i> subsp. <i>latrobei</i> open shrubland
Habitat and Distribution	On low outcropping duricrust breakaways and rises in the northern section of the Deception mine area
Other Associated Species	<p>Trees / Shrubs: <i>Acacia andrewsii</i>, <i>A. ramulosa</i> var. <i>ramulosa</i>, <i>A. sp.</i> narrow phyllode (B.R. Maslin 7831), <i>Alyxia buxifolia</i>, <i>Dodonaea rigida</i>, <i>Eremophila clarkei</i>, <i>E. metallicorum</i>, <i>Exocarpos aphyllus</i>, <i>Philotheca brucei</i> subsp. <i>brucei</i>, <i>Scaevola spinescens</i> (spiny, fine leaf)</p> <p>Herbs: <i>Sclerolaena fusiformis</i></p> <p>Grasses: <i>Amphipogon caricinus</i> var. <i>caricinus</i></p>
Quadrats and Relevés	DEC09, DEC66, DEC73; DEC-R16, DEC-R65, DEC-R69



Plate 5.4: Vegetation unit 1.04 (depauperate site: DEC66).



Plate 5.5: Vegetation unit 1.04 (DEC-R16).

Mapping Code and Vegetation Description	1.05 <i>Acacia cockertoniana</i> , <i>Melaleuca leiocarpa</i> , <i>Calycopeplus paucifolius</i> tall shrubland over <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207) shrubland
Habitat and Distribution	On sub-cropping to outcropping BIF rises within the Deception mine area
Other Associated Species	Trees / Shrubs: Mulga types included <i>Acacia caesaneura</i> (narrow phyllode variant) and <i>A. mulganeura</i> ; also present <i>Brachychiton gregorii</i> , <i>Dodonaea rigida</i> , <i>Eremophila clarkei</i> , <i>E. latrobei</i> subsp. <i>latrobei</i> , <i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i> , <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207), <i>Olearia humilis</i> , <i>Prostanthera althoferi</i> subsp. <i>althoferi</i> , <i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32) Herbs: <i>Cheilanthes adiantoides</i> , <i>Dianella divaricata</i> var. <i>divaricata</i> , <i>Thysanotus manglesianus</i> , <i>Waitzia acuminata</i> var. <i>acuminata</i> Grasses: <i>Austrostipa elegantissima</i> , <i>Monachather paradoxus</i>
Quadrats and Relevés	DEC11, DEC12, DEC64; DEC-R18, DEC-R20, DEC-R71

Mapping Code and Vegetation Description	1.06 <i>Dryandra arborea</i> (<i>Acacia cockertoniana</i> , <i>Eremophila clarkei</i>) tall shrubland over <i>Philotheca brucei</i> subsp. <i>brucei</i> shrubland over <i>Olearia humilis</i> scattered low shrubs
Habitat and Distribution	A single stand on an outcropping BIF rise in the Deception mine area
Other Associated Species	Trees / Shrubs: <i>Brachychiton gregorii</i> , <i>Dodonaea rigida</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Prostanthera althoferi</i> subsp. <i>althoferi</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Scaevola spinescens</i> (spiny, fine leaf), <i>Spartothamnella teucriflora</i> Perennial climbers: <i>Comesperma integerrimum</i> Herbs: <i>Dianella revoluta</i> var. <i>divaricata</i> , <i>Stenopetalum filifolium</i> , <i>Thysanotus manglesianus</i>
Quadrats and Relevés	DEC14; DEC-R19



Plate 5.6: Vegetation unit 1.05 (DEC-R18).



Plate 5.7: Vegetation unit 1.06 (DEC-R19).

Mapping Code and Vegetation Description	1.07 <i>Acacia effusifolia</i> tall shrubland over mixed open shrubland over <i>Monachather paradoxus</i> , <i>Amphipogon caricinus</i> var. <i>caricinus</i> very open grassland
Habitat and Distribution	On flats in the haul road corridor, from approximately 2.8 km north of Pigeon Rocks to the southernmost end; occurred on ironstone and/or quartz gravel over yellow/orange sand to red-brown sandy loam
Other Associated Species	Trees / Shrubs: <i>Eremophila forrestii</i> subsp. <i>forrestii</i> , <i>Olearia pimeleoides</i> , <i>Prostanthera grylloana</i> ; frequently with emergent <i>Eucalyptus leptopoda</i> subsp. <i>subluta</i> mallees Perennial climbers: <i>Rhyncharrhena linearis</i> Herbs: <i>Calocephalus multiflorus</i> , <i>Dianella revoluta</i> var. <i>divaricata</i> , <i>Gilberta tenuifolia</i> , <i>Thysanotus manglesianus</i> , <i>Waitzia acuminata</i> var. <i>acuminata</i>
Quadrats and Relevés	DEC47, DEC59, DEC74; DEC-R44, DEC-R50, DEC-R55

Mapping Code and Vegetation Description	1.08 <i>Acacia effusifolia</i> tall open shrubland over <i>Grevillea erectiloba</i> , <i>Baeckea elderiana</i> shrubland over <i>Amphipogon caricinus</i> var. <i>caricinus</i> very open grassland
Habitat and Distribution	On yellow-brown loamy sands on flats; mainly in small patches in the haul road corridor, beginning approximately 2 km north of Pigeon Rocks and extending south for 10 km; two small stands in the northeastern section of the mine area
Other Associated Species	Trees / Shrubs: <i>Euryomyrtus patrickiae</i> , <i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i> , <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207), <i>Philotheca deserti</i> subsp. ?nov. Herbs: <i>Calocephalus multiflorus</i> , <i>Dianella revoluta</i> var. <i>divaricata</i> , <i>Gilberta tenuifolia</i> , <i>Thysanotus manglesianus</i> , <i>Waitzia acuminata</i> var. <i>acuminata</i> Grasses: <i>Monachather paradoxus</i>
Quadrats and Relevés	DEC29, DEC32, DEC46, DEC51, DEC69; DEC-R32, DEC-R34, DEC-R48, DEC-R51



Plate 5.8: Vegetation unit 1.07 (DEC-R44).



Plate 5.9: Vegetation unit 1.08 (DEC-R32).

Mapping Code and Vegetation Description	1.09 <i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i> tall open scrub over <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207) open shrubland over <i>Hibbertia eatoniae</i> scattered low shrubs
Habitat and Distribution	One small stand on a low gravelly rise west of Pigeon Rocks
Other Associated Species	Trees / Shrubs: <i>Allocasuarina dielsiana</i> , <i>Philotheca brucei</i> subsp. <i>brucei</i> Herbs: <i>Dianella revoluta</i> var. <i>divaricata</i> , <i>Stenopetalum filifolium</i> , <i>Thysanotus manglesianus</i> , <i>Waitzia acuminata</i> var. <i>acuminata</i> Grasses: <i>Amphipogon caricinus</i> var. <i>caricinus</i> , <i>Aristida contorta</i> , <i>Monachather paradoxus</i>
Quadrats and Relevés	Nil inside study area; sampled at two sites on the rocky range to the east of the current haul road corridor (DEC30; DEC-R33)

Mapping Code and Vegetation Description	1.10 <i>Acacia</i> "aneura", <i>A. ramulosa</i> var. <i>ramulosa</i> , <i>A.</i> ? sp. Mt Jackson (B. Ryan 176), (<i>Eremophila clarkei</i>) tall shrubland over <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> shrubland
Habitat and Distribution	A very small stand in the haul road corridor, on the footslopes of a rocky minor BIF range west of Pigeon Rocks
Other Associated Species	Trees / Shrubs: Mulga types included <i>Acacia caesaneura</i> (narrow phyllode variant) and <i>A. mulganeura</i> ; also present <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831), <i>Brachychiton gregorii</i> , <i>Dodonaea rigida</i> , <i>Philotheca obovatus</i> var. <i>obovatus</i> , <i>Santalum spicatum</i> , <i>Scaevola spinescens</i> (spiny, fine leaf), <i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260) Herbs: <i>Cheilanthes sieberi</i> subsp. <i>sieberi</i> , <i>Dianella revoluta</i> var. <i>divaricata</i> , <i>Stenopetalum filifolium</i> , <i>Thysanotus manglesianus</i> , <i>Waitzia acuminata</i> var. <i>acuminata</i> Grasses: <i>Monachather paradoxus</i>
Quadrats and Relevés	Nil inside study area; sampled at four sites on the rocky range to the east of the current haul road corridor (DEC31, DEC34; DEC-R35, DEC-R37)



Plate 5.10: Vegetation unit 1.09 (DEC-R33).



Plate 5.11: Vegetation unit 1.10 (on range to east of haul road).

Mapping Code and Vegetation Description	1.11 <i>Acacia aneura</i> tall shrubland over <i>Eremophila latrobei</i> subsp. <i>latrobei</i> open shrubland over <i>Prostanthera althoferi</i> subsp. <i>althoferi</i> , <i>Olearia humilis</i> low open shrubland
Habitat and Distribution	A single small stand on the upper-slope of the minor BIF range west of Pigeon Rocks
Other Associated Species	Trees / Shrubs: <i>Brachychiton gregorii</i> , <i>Dodonaea rigida</i> , <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32), <i>Solanum ellipticum</i> Herbs: <i>Cheilanthes sieberi</i> subsp. <i>sieberi</i> , <i>Erodium cygnorum</i> , <i>Euphorbia tannensis</i> subsp. <i>eremophila</i> , <i>Phyllangium sulcatum</i> , <i>Thysanotus manglesianus</i> , <i>Waitzia acuminata</i> var. <i>acuminata</i> Grasses: <i>Monachather paradoxus</i>
Quadrats and Relevés	Nil inside study area; sampled at two sites on the rocky range to the east of the current haul road corridor (DEC33; DEC-R36)

Mapping Code and Vegetation Description	1.12 <i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>A. sp.</i> narrow phyllode (B.R. Maslin 7831) tall open shrubland over <i>Eremophila forrestii</i> subsp. <i>forrestii</i> open shrubland over very open mixed annual grassland/herbland
Habitat and Distribution	Three stands extending over a 2 km stretch of the haul road corridor, beginning approximately 700 m south of Pigeon Rocks; occurred on areas of orange sand on a low granite rise
Other Associated Species	Trees / Shrubs: <i>Acacia tetragonophylla</i> , <i>Brachychiton gregorii</i> , <i>Eremophila clarkei</i> , <i>E. eriocalyx</i> , <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> , <i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260), <i>Solanum lasiophyllum</i> Perennial climbers: <i>Comesperma integerrimum</i> , <i>Rhyncharrhena linearis</i> Herbs: <i>Cephalopterum drummondii</i> , <i>Cheilanthes sieberi</i> subsp. <i>sieberi</i> , <i>Chthonocephalus pseudevax</i> , <i>Daucus glochidiatus</i> , <i>Dianella revoluta</i> var. <i>divaricata</i> , <i>Erodium cygnorum</i> , <i>Gnephosis tenuissima</i> , <i>Lemooria burkittii</i> , <i>Podolepis canescens</i> , <i>Stenopetalum filifolium</i> , <i>Thysanotus manglesianus</i> , <i>Velleia rosea</i> , <i>Waitzia acuminata</i> var. <i>acuminata</i> Grasses: <i>Austrostipa eremophila</i> , <i>A. platychaeta</i> , <i>Monachather paradoxus</i>
Quadrats and Relevés	DEC44, DEC52; DEC-R40



Plate 5.12: Vegetation unit 1.11 (DEC-R36).



Plate 5.13: Vegetation unit 1.12 (DEC-R40).

Mapping Code and Vegetation Description	1.13 <i>Acacia quadrimarginea</i> tall open shrubland over <i>Eremophila forrestii</i> subsp. <i>forrestii</i> open shrubland over <i>Mirbelia microphylla</i> scattered low shrubs over <i>Borya constricta</i> very open hermland and mixed very open grassland
Habitat and Distribution	Occurred in two stands in the same area and in similar habitat to unit 1.12
Other Associated Species	<p>Trees / Shrubs: <i>Eremophila serrulata</i>, <i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260), <i>Solanum ellipticum</i></p> <p>Perennial climbers: <i>Rhyncharrhena linearis</i></p> <p>Herbs: <i>Brachyscome pusilla</i>, <i>Cephalopterum drummondii</i>, <i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>, <i>Chthonocephalus pseudevax</i>, <i>Erodium cygnorum</i>, <i>Gilberta tenuifolia</i>, <i>Goodenia occidentalis</i>, <i>Gnephosis tenuissima</i>, <i>Podolepis canescens</i>, <i>P. capillaris</i>, <i>Schoenia cassiniana</i>, <i>Stenopetalum filifolium</i>, <i>Thysanotus manglesianus</i>, <i>Trachymene pilosa</i>, <i>Velleia rosea</i>, <i>Waitzia acuminata</i> var. <i>acuminata</i></p> <p>Grasses: <i>Aristida contorta</i>, <i>Austrostipa eremophila</i>, <i>Monachather paradoxus</i></p>
Quadrats and Relevés	DEC42, DEC49; DEC-R43



Plate 5.14: Vegetation unit 1.13 (DEC-R43).

Mapping Code and Vegetation Description	1.14 <i>Acacia cockertoniana</i> , <i>Melaleuca leiocarpa</i> tall open shrubland to tall shrubland over <i>Alyxia buxifolia</i> , <i>Grevillea extorris</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> open shrubland to shrubland
Habitat and Distribution	A single mapped location 3.4 km south of Pigeon Rocks; this unit was a complex associated with a highly weathered granite breakaway system. The description was based on relevé DEC-R46, which amalgamated vegetation of the breakaway itself, a dense shrubland in a drainage focus at its base (subsequently sampled by quadrat DEC45), and a sparsely vegetated area of duricrust above (subsequently sampled by quadrat DEC48). The breakaway and the drainage focus were entirely contained within the haul road corridor, while the duricrust above the breakaway extended outside the corridor.
Other Associated Species	<p>Trees / Shrubs: <i>Acacia ramulosa</i> var. <i>ramulosa</i>, <i>A. tetragonophylla</i>, <i>A. sp. narrow phyllode</i> (B.R. Maslin 7831), <i>Callitris columellaris</i>, <i>Dodonaea inaequifolia</i>, <i>Enchylaena lanata</i>, <i>Eremophila forrestii</i> subsp. <i>forrestii</i>, <i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>, <i>Exocarpos aphyllus</i>, <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207), <i>Olearia humilis</i>, <i>O. pimeleoides</i>, <i>Philotheca brucei</i> subsp. <i>brucei</i>, <i>Ptilotus obovatus</i> var. <i>obovatus</i>, <i>Rhagodia</i> ?<i>drummondii</i>, <i>Santalum spicatum</i>, <i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)</p> <p>Perennial climbers: <i>Comesperma integerrimum</i></p> <p>Herbs: ?<i>Caesia</i> sp. (sterile material), <i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>, <i>Dianella revoluta</i> var. <i>divaricata</i>, <i>Drosera macrantha</i> subsp. <i>macrantha</i></p> <p>Grasses: <i>Austrodanthonia</i> ?<i>setacea</i>, <i>Monachather paradoxus</i>, <i>Tripogon loliiformis</i></p>
Quadrats and Relevés	DEC45, DEC48; DEC-R46



Plate 5.15: Vegetation unit 1.14: on breakaway itself (DEC-R46).



Plate 5.16: Vegetation unit 1.14: drainage focus below breakaway (DEC45).



Plate 5.17: Vegetation unit 1.14: above breakaway (DEC48).



Plate 5.18: Vegetation unit 1.14: washplain adjacent to breakaway (DEC-R46).

Mapping Code and Vegetation Description	1.15 <i>Acacia cockertoniana</i> , (<i>A. effusifolia</i>) tall shrubland over <i>Eremophila forrestii</i> subsp. <i>forrestii</i> , <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207) shrubland over <i>Prostanthera althoferi</i> subsp. <i>althoferi</i> scattered low shrubs
Habitat and Distribution	In a single stand on the flats above the granite breakaway in the haul road corridor, 3.5 km south of Pigeon Rocks
Other Associated Species	Trees / Shrubs: <i>Acacia incurvaneura</i> , <i>A. quadrimarginea</i> , <i>A. ramulosa</i> var. <i>ramulosa</i> Herbs: <i>Calocephalus multiflorus</i> , <i>Dianella revoluta</i> var. <i>divaricata</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Waitzia acuminata</i> var. <i>acuminata</i>
Quadrats and Relevés	DEC43; DEC-R47

Mapping Code and Vegetation Description	1.16 <i>Acacia effusifolia</i> tall open shrubland over <i>Thryptomene kochii</i> open shrubland over <i>Euryomyrtus patrickiae</i> scattered low shrubs over <i>Triodia tomentosa</i> or <i>T. rigidissima</i> open hummock grassland
Habitat and Distribution	In two stands on orange sand on plains in the haul road corridor, approximately 5 km south of Pigeon Rocks
Other Associated Species	Trees / Shrubs: <i>Aluta aspera</i> subsp. <i>aspera</i> , <i>Eucalyptus leptopoda</i> subsp. <i>subluta</i> , <i>Grevillea acacioides</i> , <i>Leptospermum fastigiatum</i> , <i>Phebalium canaliculatum</i> , <i>Philotheca deserti</i> subsp. ?nov., <i>Prostanthera campbellii</i> Herbs: <i>Dianella revoluta</i> var. <i>divaricata</i> , <i>Gilberta tenuifolia</i> , <i>Gnephosis tenuissima</i> , <i>Thysanotus manglesianus</i> Grasses: <i>Amphipogon caricinus</i> var. <i>caricinus</i> , <i>Monachather paradoxus</i>
Quadrats and Relevés	DEC54; DEC-R53



Plate 5.19: Vegetation unit 1.15 (DEC-R47).



Plate 5.20: Vegetation unit 1.16 (DEC-R53).

Mapping Code and Vegetation Description	1.17 <i>Melaleuca leiocarpa</i> , <i>Acacia cockertoniana</i> tall open shrubland over <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Philotheca brucei</i> subsp. <i>brucei</i> open shrubland over <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207) scattered low shrubs over <i>Chamaexeros macranthera</i> scattered herbs
Habitat and Distribution	In five stands on duricrust outcrops in the northeastern section of the mine area
Other Associated Species	Trees / Shrubs: <i>Allocasuarina acutivalvis</i> , <i>Exocarpos aphyllus</i> , <i>Mirbelia microphylla</i> Herbs: <i>Calocephalus multiflorus</i> , <i>Waitzia acuminata</i> var. <i>acuminata</i> Grasses: <i>Amphipogon caricinus</i> var. <i>caricinus</i> , <i>Monachather paradoxus</i>
Quadrats and Relevés	DEC65, DEC70, DEC72; DEC-R63



Plate 5.21: Vegetation unit 1.17 (DEC65).



Plate 5.22: Vegetation unit 1.17 (DEC70).

Mapping Code and Vegetation Description	1.18 <i>Casuarina pauper</i> low open woodland over <i>Acacia cockertoniana</i> , <i>A. ramulosa</i> var. <i>ramulosa</i> , <i>A. sp.</i> narrow phyllode (B.R. Maslin 7831), <i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i> tall shrubland over <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Eremophila clarkei</i> open shrubland over <i>Ptilotus obovatus</i> var. <i>obovatus</i> , <i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260) scattered low shrubs
Habitat and Distribution	In three stands at the southern end of the haul road corridor, occurring on flat plains to lower slopes of BIF rises
Other Associated Species	<p>Trees / Shrubs: <i>Acacia tetragonophylla</i>, <i>Allocasuarina dielsiana</i>, <i>Dodonaea lobulata</i>, <i>D. rigida</i>, <i>Enchylaena tomentosa</i> var. <i>tomentosa</i>, <i>Eremophila latrobei</i> subsp. <i>latrobei</i>, <i>Hakea recurva</i> subsp. <i>recurva</i>, <i>Scaevola spinescens</i> (broad leaf, non-spiny form and spiny, fine leaf form)</p> <p>Perennial climbers: <i>Comesperma integerrimum</i>, <i>Marsdenia australis</i></p> <p>Herbs: <i>Calocephalus multiflorus</i>, <i>Dianella revoluta</i> var. <i>divaricata</i></p> <p>Grasses: <i>Amphipogon caricinus</i> var. <i>caricinus</i>, <i>Austrodanthonia ?setacea</i>, <i>Austrostipa scabra</i></p>
Quadrats and Relevés	DEC57, DEC60; DEC-R62



Plate 5.23: Vegetation unit 1.18 (DEC60).

5.2.2 Woodlands

Mapping Code and Vegetation Description	2.01 <i>Eucalyptus salubris</i> and/or <i>E. loxophleba</i> subsp. <i>lissophloia</i> low open woodland over <i>Eremophila scoparia</i> (<i>Atriplex nummularia</i> subsp. <i>spathulata</i>) scattered tall shrubs over <i>A. stipitata</i> low open shrubland over <i>Sclerolaena diacantha</i> , <i>S. fusiformis</i> very open herbland
Habitat and Distribution	On flats, particularly in broad drainage zones; mainly in the northwestern section of the mine area, with two additional stands in the southern section of the haul road corridor
Other Associated Species	<p>Trees / Shrubs: <i>Acacia ramulosa</i> var. <i>ramulosa</i>, <i>A. tetragonophylla</i>, <i>A. sp.</i> narrow phyllode (B.R. Maslin 7831), <i>Atriplex vesicaria</i>, <i>Enchylaena tomentosa</i> var. <i>tomentosa</i>, <i>Eremophila decipiens</i> subsp. <i>decipiens</i>, <i>E. oppositifolia</i> subsp. <i>angustifolia</i>, <i>Exocarpos aphyllus</i>, <i>Maireana georgei</i>, <i>M. trichoptera</i>, <i>Olearia muelleri</i>, <i>Ptilotus obovatus</i> var. <i>obovatus</i>, <i>Rhagodia</i> ? <i>drummondii</i>, <i>Scaevola spinescens</i> (broad leaf, non-spiny form), <i>Senna artemisioides</i> subsp. <i>filifolia</i></p> <p>Herbs: <i>Erymophyllum ramosum</i> subsp. <i>ramosum</i>, <i>Ptilotus exaltatus</i> var. <i>villosus</i></p> <p>Grasses: <i>Austrodanthonia</i> ? <i>setacea</i>, <i>Austrostipa elegantissima</i></p>
Quadrats and Relevés	DEC04, DEC07, DEC19, DEC61, DEC68; DEC-R03, DEC-R05, DEC-R23, DEC-R59

Mapping Code and Vegetation Description	2.02 <i>Eucalyptus longissima</i> , (<i>E. corrugata</i>) very open tree mallee over <i>Acacia ramulosa</i> var. <i>ramulosa</i> tall open shrubland over <i>Eremophila clarkei</i> , <i>E. decipiens</i> subsp. <i>decipiens</i> , <i>Scaevola spinescens</i> open shrubland over <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> low open shrubland
Habitat and Distribution	Widespread through the mine area and the haul road corridor; occurred on flats with sandy to clay soils
Other Associated Species	<p>Trees / Shrubs: Mulga types included <i>Acacia caesaneura</i> (narrow phyllode variant), <i>A. incurvaneura</i> and <i>A. mulganeura</i>; also present <i>A. tetragonophylla</i>, <i>A. sp.</i> narrow phyllode (B.R. Maslin 7831), <i>Enchylaena tomentosa</i> var. <i>tomentosa</i>, <i>Eremophila eriocalyx</i>, <i>Exocarpos aphyllus</i>, <i>Maireana georgei</i>, <i>Olearia pimeleoides</i>, <i>Rhagodia</i> ? <i>drummondii</i>, <i>Senna artemisioides</i> subsp. <i>filifolia</i>, <i>Solanum nummularium</i></p> <p>Perennial climbers: <i>Rhyncharrhena linearis</i></p> <p>Herbs: <i>Dianella revoluta</i> var. <i>divaricata</i>, <i>Ptilotus exaltatus</i> var. <i>villosus</i>, <i>Sclerolaena diacantha</i></p> <p>Grasses: <i>Amphipogon caricinus</i> var. <i>caricinus</i>, <i>Austrostipa elegantissima</i>, <i>A. ? scabra</i>, <i>Monachather paradoxus</i></p>
Quadrats and Relevés	DEC03, DEC06, DEC26, DEC38, DEC41; DEC-R07, DEC-R17, DEC-R25, DEC-R42, DEC-R57



Plate 5.24: Vegetation unit 2.01 (DEC-R03).



Plate 5.25: Vegetation unit 2.02 (DEC-R25).

Mapping Code and Vegetation Description	2.03 <i>Casuarina pauper</i> low open woodland over <i>Acacia andrewsii</i> , <i>Bossiaea walkeri</i> shrubland over <i>Grevillea acuaria</i> , <i>A. acanthoclada</i> subsp. <i>glaucescens</i> low open shrubland
Habitat and Distribution	Two small stands in the western section of the mine area and one small stand in the southern section of the haul road corridor; occurred on low rises, particularly where there was evidence of calcrete in the substrate
Other Associated Species	<p>Trees / Shrubs: <i>Acacia caesaneura</i> (narrow phyllode variant), <i>A. obtecta</i>, <i>A. ramulosa</i> var. <i>ramulosa</i>, <i>A. tetragonophylla</i>, <i>A. sp.</i> narrow phyllode (B.R. Maslin 7831), <i>Alyxia buxifolia</i>, <i>Brachychiton gregorii</i>, <i>Dodonaea rigida</i>, <i>Eremophila decipiens</i> subsp. <i>decipiens</i>, <i>Exocarpos aphyllus</i>, <i>Maireana trichoptera</i>, <i>Olearia muelleri</i>, <i>Ptilotus obovatus</i> var. <i>obovatus</i>, <i>Rhagodia ?drummondii</i>, <i>Santalum spicatum</i>, <i>Scaevola spinescens</i> (broad leaf, non-spiny form), <i>Senna artemisioides</i> subsp. <i>filifolia</i>, <i>Solanum nummularium</i></p> <p>Perennial climbers: <i>Comesperma integerrimum</i></p> <p>Herbs: <i>Sclerolaena fusiformis</i></p> <p>Grasses: <i>Austrostipa elegantissima</i></p>
Quadrats and Relevés	DEC08, DEC16; DEC-R10, DEC-R15, DEC-R61

Mapping Code and Vegetation Description	2.04 <i>Eucalyptus corrugata</i> woodland over <i>Acacia acanthoclada</i> subsp. <i>glaucescens</i> , (<i>Olearia muelleri</i> , <i>Ptilotus obovatus</i>) low shrubland
Habitat and Distribution	Occurred on a single low rise, with some evidence of calcrete in the substrate, in the southwestern section of the mine area; one other stand in the haul road corridor, west of Pigeon Rocks, which would extend outside the corridor to the east and west
Other Associated Species	<p>Trees / Shrubs: <i>Acacia andrewsii</i>, <i>A. caesaneura</i> (narrow phyllode variant), <i>A. ramulosa</i> var. <i>ramulosa</i>, <i>A. tetragonophylla</i>, <i>A. sp.</i> narrow phyllode (B.R. Maslin 7831), <i>Allocasuarina dielsiana</i>, <i>Alyxia buxifolia</i>, <i>Bossiaea walkeri</i>, <i>Dodonaea lobulata</i>, <i>D. rigida</i>, <i>Eremophila decipiens</i> subsp. <i>decipiens</i>, <i>E. oldfieldii</i> subsp. <i>angustifolia</i>, <i>Olearia humilis</i>, <i>Philotheca brucei</i> subsp. <i>brucei</i>, <i>Santalum spicatum</i>, <i>Scaevola spinescens</i> (spiny, fine leaf), <i>Senna artemisioides</i> subsp. <i>filifolia</i>, <i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)</p> <p>Perennial climbers: <i>Comesperma integerrimum</i>, <i>Rhyncharrhena linearis</i></p> <p>Herbs: <i>Calocephalus multiflorus</i>, <i>Dianella revoluta</i> var. <i>divaricata</i>, <i>Thysanotus manglesianus</i></p> <p>Grasses: <i>Austrostipa elegantissima</i>, <i>A. scabra</i>, <i>Monachather paradoxus</i></p>
Quadrats and Relevés	DEC15; DEC-R11, DEC-R67



Plate 5.26: Vegetation unit 2.03 (DEC-R10).



Plate 5.27: Vegetation unit 2.04 (DEC-R11).

Mapping Code and Vegetation Description	2.05 <i>Eucalyptus longissima</i> , (<i>E. corrugata</i>) very open tree mallee over <i>Acacia cockertoniana</i> tall shrubland over <i>Eremophila clarkei</i> , <i>E. decipiens</i> subsp. <i>decipiens</i> , <i>Philotheca brucei</i> subsp. <i>brucei</i> open shrubland over <i>Olearia humilis</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> scattered low shrubs
Habitat and Distribution	On undulating flats through the mine area
Other Associated Species	<p>Trees / Shrubs: <i>Acacia caesaneura</i> (narrow phyllode variant), <i>A. incurvaneura</i>, <i>A. ramulosa</i> var. <i>ramulosa</i>, <i>A. tetragonophylla</i>, <i>Daviesia purpurascens</i>, <i>Dodonaea rigida</i>, <i>Olearia muelleri</i>, <i>Scaevola spinescens</i> (broad leaf, non-spiny form), <i>S. spinescens</i> (spiny, fine leaf), <i>Senna artemisioides</i> subsp. <i>filifolia</i>, <i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260), <i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)</p> <p>Herbs: <i>Dianella revoluta</i> var. <i>divaricata</i>, <i>Thysanotus manglesianus</i></p> <p>Grasses: <i>Amphipogon caricinus</i> var. <i>caricinus</i>, <i>Austrostipa elegantissima</i>, <i>Monachather paradoxus</i></p>
Quadrats and Relevés	DEC18, DEC24, DEC25; DEC-R12, DEC-R22, DEC-R70

Mapping Code and Vegetation Description	2.06 <i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i> low open woodland over <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831), (<i>A. ramulosa</i> var. <i>ramulosa</i> , <i>Eremophila caperata</i>) tall shrubland over <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> low open shrubland
Habitat and Distribution	On undulating flats in the eastern section of the mine area
Other Associated Species	<p>Trees / Shrubs: <i>Acacia caesaneura</i> (narrow phyllode variant), <i>A. tetragonophylla</i>, <i>Maireana georgei</i>, <i>Olearia pimeleoides</i>, <i>Santalum spicatum</i>, <i>Scaevola spinescens</i> (spiny, fine leaf), <i>Senna artemisioides</i> subsp. <i>filifolia</i>, <i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260), <i>Solanum nummularium</i></p> <p>Herbs: <i>Calocephalus multiflorus</i>, <i>Dianella revoluta</i> var. <i>divaricata</i>, <i>Gilruthia osbornei</i>, <i>Ptilotus drummondii</i>, <i>Sclerolaena fusiformis</i></p> <p>Grasses: <i>Amphipogon caricinus</i> var. <i>caricinus</i>, <i>Austrodanthonia</i> ?setacea, <i>Austrostipa elegantissima</i>, <i>Monachather paradoxus</i></p>
Quadrats and Relevés	DEC22, DEC23; DEC-R24



Plate 5.28: Vegetation unit 2.05 (DEC-R22).



Plate 5.29: Vegetation unit 2.06 (DEC-R24).

Mapping Code and Vegetation Description	2.07 <i>Eucalyptus longissima</i> very open tree mallee over <i>Acacia "aneura"</i> , <i>A. ramulosa</i> var. <i>ramulosa</i> tall open shrubland over <i>Atriplex stipitata</i> , <i>Rhagodia drummondii</i> , <i>Maireana triptera</i> , <i>M. georgei</i> low open shrubland over <i>Sclerolaena diacantha</i> , <i>S. fusiformis</i> very open herbland
Habitat and Distribution	In a single stand on the flats in the southeastern section of the mine area
Other Associated Species	<p>Trees / Shrubs: Mulga types include <i>Acacia caesaneura</i> (narrow phyllode variant); also present <i>Acacia andrewsii</i>, <i>A. tetragonophylla</i>, <i>A. sp.</i> narrow phyllode (B.R. Maslin 7831), <i>Enchylaena lanata</i>, <i>Eremophila decipiens</i> subsp. <i>decipiens</i>, <i>E. metallicorum</i>, <i>Exocarpos aphyllus</i>, <i>Olearia muelleri</i>, <i>Ptilotus obovatus</i> var. <i>obovatus</i>, <i>Senna artemisioides</i> subsp. <i>filifolia</i></p> <p>Perennial climbers: <i>Rhyncharrhena linearis</i></p> <p>Herbs: <i>Dianella revoluta</i> var. <i>divaricata</i>, <i>Stenopetalum filifolium</i>, <i>Waitzia acuminata</i> var. <i>acuminata</i></p>
Quadrats and Relevés	DEC21; DEC-R26

Mapping Code and Vegetation Description	2.08 <i>Eucalyptus formanii</i> , (<i>E. celastroides</i> subsp. <i>celastroides</i>) low open woodland over <i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>A. colletioides</i> , <i>A. sp.</i> narrow phyllode (B.R. Maslin 7831) tall open shrubland over <i>Eremophila decipiens</i> subsp. <i>decipiens</i> , <i>E. eriocalyx</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> open shrubland over mixed low open shrubland
Habitat and Distribution	On flats, mainly on red-brown sandy loams, within the northern two-thirds of the haul road corridor
Other Associated Species	<p>Trees / Shrubs: <i>Acacia caesaneura</i> (narrow phyllode variant), <i>A. ? incurvaneura</i>, <i>A. mulganeura</i>, <i>A. tetragonophylla</i>, <i>Cryptandra connata</i>, <i>Eremophila caperata</i>, <i>Maireana georgei</i>, <i>Olearia muelleri</i>, <i>O. pimeleoides</i>, <i>Ptilotus obovatus</i> var. <i>obovatus</i>, <i>Senna artemisioides</i> subsp. <i>filifolia</i></p> <p>Herbs: <i>Calocephalus multiflorus</i>, <i>Dianella revoluta</i> var. <i>divaricata</i>, <i>Gilruthia osbornei</i>, <i>Ptilotus drummondii</i>, <i>P. exaltatus</i> var. <i>villosus</i>, <i>Sclerolaena diacantha</i>, <i>Stenopetalum filifolium</i>, <i>Waitzia acuminata</i> var. <i>acuminata</i></p> <p>Grasses: <i>Amphipogon caricinus</i> var. <i>caricinus</i>, <i>Austrostipa elegantissima</i>, <i>A. platychaeta</i>, <i>A. scabra</i>, <i>Monachather paradoxus</i></p>
Quadrats and Relevés	DEC35, DEC37, DEC53; DEC-R28, DEC-R29, DEC-R54



Plate 5.30: Vegetation unit 2.07 (DEC-R26).



Plate 5.31: Vegetation unit 2.08 (DEC-R29).

Mapping Code and Vegetation Description	2.09 <i>Eucalyptus corrugata</i> open woodland over <i>Westringia cephalantha</i> var. <i>cephalantha</i> open shrubland over <i>Olearia muelleri</i> low open shrubland over <i>Triodia tomentosa</i> scattered hummock grasses
Habitat and Distribution	In three stands on the flats in the northern third of the haul road corridor
Other Associated Species	<p>Trees / Shrubs: <i>Acacia colletioides</i>, <i>A. obtecta</i>, <i>A. ramulosa</i> var. <i>ramulosa</i>, <i>A. tetragonophylla</i>, <i>A. sp. narrow phyllode</i> (B.R. Maslin 7831), <i>Bossiaea walkeri</i>, <i>Callitris columellaris</i>, <i>Eremophila caperata</i>, <i>E. decipiens</i> subsp. <i>decipiens</i>, <i>Exocarpos aphyllus</i>, <i>Maireana georgei</i>, <i>Olearia pimeleoides</i>, <i>Ptilotus obovatus</i> var. <i>obovatus</i>, <i>Senna artemisioides</i> subsp. <i>filifolia</i></p> <p>Herbs: <i>Dianella revoluta</i> var. <i>divaricata</i>, <i>Gnephosis tenuissima</i>, <i>Podolepis capillaris</i>, <i>Ptilotus drummondii</i>, <i>P. exaltatus</i> var. <i>villosus</i>, <i>Stenopetalum filifolium</i></p> <p>Grasses: <i>Amphipogon caricinus</i> var. <i>caricinus</i>, <i>Aristida contorta</i>, <i>Austrostipa elegantissima</i>, <i>A. scabra</i>, <i>Monachather paradoxus</i></p>
Quadrats and Relevés	DEC40, DEC75; DEC-R31

Mapping Code and Vegetation Description	2.10 <i>Callitris columellaris</i> low woodland over <i>Acacia ramulosa</i> var. <i>ramulosa</i> , (<i>A. sp. narrow phyllode</i> (B.R. Maslin 7831)) tall open shrubland over <i>Eremophila decipiens</i> subsp. <i>decipiens</i> , <i>Scaevola spinescens</i> , <i>Olearia pimelioides</i> shrubland
Habitat and Distribution	In four stands on sandy flats in the central section of the haul road corridor
Other Associated Species	<p>Trees / Shrubs: <i>Acacia jennerae</i>, <i>A. obtecta</i>, <i>A. tetragonophylla</i>, <i>Alyxia buxifolia</i>, <i>Dodonaea viscosa</i> subsp. <i>angustissima</i>, <i>Enchylaena lanata</i>, <i>Eremophila forrestii</i> subsp. <i>forrestii</i>, <i>Exocarpos aphyllus</i>, <i>Olearia muelleri</i>, <i>Ptilotus obovatus</i> var. <i>obovatus</i>, <i>Rhagodia</i> ? <i>drummondii</i>, <i>Santalum spicatum</i>, <i>Senna artemisioides</i> subsp. <i>filifolia</i>, <i>Solanum nummularium</i></p> <p>Perennial climbers: <i>Rhyncharrhena linearis</i></p> <p>Herbs: <i>Plantago debilis</i>, <i>Podolepis capillaris</i>, <i>Stenopetalum filifolium</i>, <i>Waitzia acuminata</i> var. <i>acuminata</i></p> <p>Grasses: <i>Amphipogon caricinus</i> var. <i>caricinus</i>, <i>Austrodanthonia</i> ? <i>setacea</i>, <i>Austrostipa elegantissima</i>, <i>A. ? scabra</i>, <i>Monachather paradoxus</i></p>
Quadrats and Relevés	DEC39; DEC-R41, DEC-R66



Plate 5.32: Vegetation unit 2.09 (DEC-R31).



Plate 5.33: Vegetation unit 2.10 (DEC-R41).

Mapping Code and Vegetation Description	2.11 <i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i> low open woodland over <i>Eremophila caperata</i> open shrubland over <i>Olearia muelleri</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i> low open shrubland
Habitat and Distribution	In several small stands on sandy flats in the southern half of the haul road corridor
Other Associated Species	<p>Trees / Shrubs: <i>Acacia colletioides</i>, <i>A. jennerae</i>, <i>A. ramulosa</i> var. <i>ramulosa</i>, <i>A. sp.</i> narrow phyllode (B.R. Maslin 7831), <i>Alyxia buxifolia</i>, <i>Brachychiton gregorii</i>, <i>Callitris columellaris</i>, <i>Enchylaena lanata</i>, <i>Eremophila decipiens</i> subsp. <i>decipiens</i>, <i>E. pantonii</i>, <i>Maireana georgei</i>, <i>M. trichoptera</i>, <i>Olearia pimeleoides</i>, <i>Rhagodia</i> ? <i>drummondii</i>, <i>Senna artemisioides</i> subsp. <i>filifolia</i>, <i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260), <i>Solanum nummularium</i></p> <p>Perennial climbers: <i>Rhyncharrhena linearis</i></p> <p>Herbs: <i>Dianella revoluta</i> var. <i>divaricata</i>, <i>Podolepis capillaris</i>, <i>Ptilotus exaltatus</i> var. <i>villosus</i>, <i>Sclerolaena diacantha</i>, <i>S. fusiformis</i>, <i>Stenopetalum filifolium</i></p> <p>Grasses: <i>Austrodanthonia</i> ? <i>setacea</i>, <i>Austrostipa elegantissima</i>, <i>A. scabra</i>, <i>Monachather paradoxus</i></p>
Quadrats and Relevés	DEC50; DEC-R45

Mapping Code and Vegetation Description	2.12 <i>Eucalyptus celastroides</i> subsp. <i>celastroides</i> very open tree mallee over <i>Acacia ramulosa</i> var. <i>ramulosa</i> tall open shrubland over <i>Philothea brucei</i> subsp. <i>brucei</i> shrubland
Habitat and Distribution	In two stands on sandy flats in the southern half of the haul road corridor
Other Associated Species	<p>Trees / Shrubs: <i>Acacia colletioides</i>, <i>A. effusifolia</i>, <i>A. oblecta</i>, <i>A. tetragonophylla</i>, <i>A. sp.</i> narrow phyllode (B.R. Maslin 7831), <i>Brachychiton gregorii</i>, <i>Callitris columellaris</i>, <i>Eremophila decipiens</i> subsp. <i>decipiens</i>, <i>E. eriocalyx</i>, <i>E. forrestii</i> subsp. <i>forrestii</i>, <i>E. granitica</i>, <i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>, <i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i>, <i>Olearia humilis</i>, <i>O. muelleri</i>, <i>O. pimeleoides</i>, <i>Prostanthera grylloana</i>, <i>Psyrax suaveolens</i>, <i>Ptilotus obovatus</i> var. <i>obovatus</i>, <i>Rhagodia</i> ? <i>drummondii</i>, <i>Senna artemisioides</i> subsp. <i>filifolia</i>, <i>Westringia cephalantha</i> var. <i>cephalantha</i></p> <p>Perennial climbers: <i>Comesperma integerrimum</i></p> <p>Herbs: <i>Calocephalus multiflorus</i>, <i>Dianella revoluta</i> var. <i>divaricata</i>, <i>Ptilotus drummondii</i>, <i>Stenopetalum filifolium</i>, <i>Thysanotus manglesianus</i>, <i>Waitzia acuminata</i> var. <i>acuminata</i></p> <p>Grasses: <i>Amphipogon caricinus</i> var. <i>caricinus</i>, <i>Aristida contorta</i>, <i>Austrostipa elegantissima</i>, <i>Monachather paradoxus</i></p>
Quadrats and Relevés	DEC62; DEC-R49, DEC-R56



Plate 5.34: Vegetation unit 2.11 (DEC-R45).



Plate 5.35: Vegetation unit 2.12 (DEC-R49).

Mapping Code and Vegetation Description	2.13 <i>Eucalyptus formanii</i> , (<i>E. concinna</i>) low open woodland over <i>Eremophila caperata</i> , <i>Westringia cephalantha</i> var. <i>cephalantha</i> open shrubland over <i>Triodia tomentosa</i> or <i>T. rigidissima</i> open hummock grassland
Habitat and Distribution	In four stands on red-brown sand on flats in the southern half of the haul road corridor
Other Associated Species	<p>Trees / Shrubs: <i>Acacia colletioides</i>, <i>Olearia exiguifolia</i>, <i>O. muelleri</i>, <i>O. pimeleoides</i></p> <p>Perennial climbers: <i>Comesperma integerrimum</i></p> <p>Herbs: <i>Dianella revoluta</i> var. <i>divaricata</i>, <i>Gnephosis tenuissima</i>, <i>Podolepis capillaris</i>, <i>Ptilotus drummondii</i>, <i>Stylidium dielsianum</i>, <i>Waitzia acuminata</i> var. <i>acuminata</i></p> <p>Grasses: <i>Aristida contorta</i>, <i>Monachather paradoxus</i></p>
Quadrats and Relevés	DEC56; DEC-R52

Mapping Code and Vegetation Description	2.14 <i>Eucalyptus salmonophloia</i> open woodland over <i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>A. sp.</i> narrow phyllode (B.R. Maslin 7831), <i>A. obtecta</i> , <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> tall open shrubland over <i>Senna artemisioides</i> subsp. <i>filifolia</i> , <i>Eremophila decipiens</i> subsp. <i>decipiens</i> open shrubland over <i>Atriplex stipitata</i> , <i>Olearia muelleri</i> , <i>Maireana georgei</i> low open shrubland
Habitat and Distribution	In two stands on sandy flats in the southern third of the haul road corridor, north of the Windarling Range
Other Associated Species	<p>Trees / Shrubs: <i>Acacia caesaneura</i> (narrow phyllode variant), <i>A. jennerae</i>, <i>A. tetragonophylla</i>, <i>Atriplex vesicaria</i>, <i>Enchylaena tomentosa</i> var. <i>tomentosa</i>, one stand with a lower mallee storey of <i>Eucalyptus corrugata</i>, <i>Exocarpos aphyllus</i>, <i>Maireana trichoptera</i>, <i>Olearia pimeleoides</i>, <i>Ptilotus obovatus</i> var. <i>obovatus</i>, <i>Rhagodia</i> ? <i>drummondii</i>, <i>Santalum acuminatum</i>, <i>Scaevola spinescens</i> (broad leaf, non-spiny form), <i>Solanum nummularium</i></p> <p>Perennial climbers: <i>Rhyncharhena linearis</i></p> <p>Herbs: <i>Actinobole uliginosum</i>, <i>Calandrinia eremaea</i>, <i>Calotis hispidula</i>, <i>Cephalopterum drummondii</i>, <i>Chthonocephalus pseudevax</i>, <i>Crassula colorata</i> var. <i>colorata</i>, <i>Dianella revoluta</i> var. <i>divaricata</i>, <i>Erodium cygnorum</i>, <i>Goodenia berardiana</i>, <i>Podolepis canescens</i>, <i>P. capillaris</i>, <i>Ptilotus exaltatus</i> var. <i>villosus</i>, <i>Sclerolaena diacantha</i>, <i>*Sonchus oleraceus</i>, <i>Stenopetalum filifolium</i>, <i>Vittadinia humerata</i>, <i>Waitzia acuminata</i> var. <i>acuminata</i></p> <p>Grasses: <i>Aristida contorta</i>, <i>Austrodanthonia</i> ? <i>setacea</i>, <i>Austrostipa elegantissima</i>, <i>A. scabra</i>, <i>Monachather paradoxus</i>, <i>*Rostraria pumila</i></p>
Quadrats and Relevés	DEC55, DEC58; DEC-R58



Plate 5.36: Vegetation unit 2.13 (DEC-R52).



Plate 5.37: Vegetation unit 2.14 (DEC58).



Plate 5.38: Vegetation unit 2.14 (DEC55).

5.2.3 Low Shrublands

Mapping Code and Vegetation Description	4.01 <i>Ptilotus obovatus</i> var. <i>obovatus</i> low shrubland over <i>Enneapogon caerulescens</i> scattered grasses and <i>Cheilanthes sieberi</i> subsp. <i>sieberi</i> , <i>C. brownii</i> very open herbland
Habitat and Distribution	Two small stands on the northern and eastern slopes of low BIF ranges in the mine area; another smaller stand in the central section of the haul road corridor, although structurally equivalent, occurs in a different habitat and may simply represent a group of <i>Ptilotus obovatus</i> individuals, rather than the distinct vegetation unit 4.01
Other Associated Species	Trees / Shrubs: <i>Abutilon cryptopetalum</i> , <i>Acacia tetragonophylla</i> , <i>Dodonaea rigida</i> , <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260), <i>Solanum lasiophyllum</i> Herbs: <i>Crassula colorata</i> var. <i>acuminata</i> , <i>Erodium cygnorum</i> , <i>Lemooria burkittii</i> , <i>Lepidium oxytrichum</i> , <i>Senecio glossanthus</i> Grasses: <i>Austrostipa scabra</i> , <i>A. tenuifolia</i>
Quadrats and Relevés	DEC01, (DEC28), DEC67; DEC-R02, (DEC-R39), DEC-R64; NB. sites in brackets are structurally equivalent but may not represent this vegetation unit



Plate 5.39: Vegetation unit 4.01 (DEC01).



Plate 5.40: Vegetation unit 4.01 (DEC67).

5.3 Floristic Analysis

There was a reasonable correspondence between the vegetation units identified subjectively through the field mapping process and the floristic groups identified through the PRIMER clustering analysis (see Table 5.2 and Appendix 8). The SIMPER routine identified 15 separate groups of quadrats on the basis of the percentage cover data discussed in Section 3.4; a total of 32 separate groups were identified on the basis of presence / absence data for quadrats and relevés together (see Appendix 8).

Many of the vegetation types clustered separately within the dendrogram outputs presented in Appendix 8, although sites from some units were distributed across more than one floristic group. This is to be expected given the relatively large suite of species shared by many of the units: a number of units that were structurally distinct in the field do not appear to have distinctly different floristic composition, at least with respect to perennial species.

The strongest groupings, based on analysis of percentage cover data for quadrats, comprised:

- Particularly depauperate (species poor) versions of unit 1.04 (*Melaleuca hamata* tall shrublands) on areas of duricrust (group 1 in Table 5.2); sites in these areas clustered together irrespective of whether percentage cover data or presence / absence data were considered (see Appendix 8).
- Unit 1.16 (group 2 in Table 5.2); sites within this vegetation unit grouped separately when both percentage cover data and presence / absence data were considered (see Appendix 8).
- Unit 4.01 (group 4 in Table 5.2); sites within undisturbed areas supporting *Ptilotus obovatus* var. *obovatus* low shrublands clustered together when both percentage data and presence / absence data were considered (see Appendix 8). The two sites (DEC28 and DEC-R39) that were located in areas that appeared to have been disturbed (cleared of overstorey vegetation), rather than representing a “natural” stand of this vegetation type, clustered out separately from the remaining sites when only presence / absence data were considered, together with a site from the neighbouring vegetation unit 1.03 (see Appendix 8). This lends support to the suggestion that these areas are not equivalent to the stands of this vegetation observed on intact hillslopes in the Deception mine area.
- Unit 1.13 (group 6 in Table 5.2); sites in these *Acacia quadrimarginea* tall open shrublands on orange granitic sand in the haul road corridor clustered together when both percentage data and presence / absence data were considered (see Appendix 8).
- Unit 2.01 (group 8 in Table 5.2); sites in these Gimlet (*Eucalyptus salubris*) / York Gum (*Eucalyptus loxophleba*) woodlands over mixed *Atriplex* low shrublands clustered together on the basis of both percentage cover data and presence / absence data (see Appendix 8).
- Sites in unit 2.08 (group 14 in Table 5.2) clustered tightly on the basis of the percentage cover data, although one site became separated when only presence / absence data were considered (Appendix 8). Unit 2.13, which clustered out with unit 2.08 on the basis of percentage cover data, clustered separately when only presence / absence data were considered (Appendix 8). These units comprised low open woodlands dominated by *Eucalyptus formanii* over mixed open shrublands including *Acacia ramulosa*, with unit 2.13 supporting a very open hummock grassland of *Triodia rigidissima* or *T. tomentosa*.

Table 5.2: Floristic groupings assigned by the 'similarity percentages' routine (SIMPER) in PRIMER, and the key indicator species and vegetation units associated with these groups. (Data comprised estimated percentage cover values for perennial species in quadrats only.)

Group	Top Five Species Contributing to the Similarity of Sites in this Group	Associated Vegetation Types
Group 1	<i>Melaleuca hamata</i> <i>Sclerolaena fusiformis</i> (two species contributed 100%)	1.04 (two of three sites): depauperate <i>Melaleuca hamata</i> tall shrublands on the crests of duricrust outcrops (see Plate 5.4)
Group 2	– (single site) Analysis of presence / absence data indicates that the following species are of most importance: <i>Acacia effusifolia</i> <i>Amphipogon caricinus</i> var. <i>caricinus</i> <i>Dianella revoluta</i> var. <i>divaricata</i> <i>Eucalyptus leptopoda</i> subsp. <i>subluta</i> <i>Euryomyrtus patrickiae</i>	1.16: <i>Acacia effusifolia</i> tall open shrublands over <i>Triodia</i> open hummock grasslands on sandy plains in the haul road corridor
Group 3	<i>Acacia effusifolia</i> <i>Baeckea elderiana</i> <i>Monachather paradoxa</i> <i>Dianella revoluta</i> var. <i>divaricata</i> <i>Amphipogon caricinus</i> var. <i>caricinus</i>	1.07, 1.08, 1.09, 2.12: vegetation types with a tall shrub layer dominated by <i>Acacia effusifolia</i> , typically with myrtaceous shrubs in the lower strata; mainly on sandy / loamy plains in the haul road corridor; unit 1.09 (<i>Allocasuarina eriochlamys</i> tall open scrub, represented by quadrat DEC30) is structurally distinct and the dominant sheoak species is absent from the other sites in this cluster, however this is not sufficient to cause this vegetation type to cluster separately
Group 4	<i>Ptilotus obovatus</i> var. <i>obovatus</i> (single species contributed 92.82%)	4.01: <i>Ptilotus obovatus</i> var. <i>obovatus</i> low shrublands on slopes of low BIF ranges
Group 5	<i>Acacia cockertoniana</i> <i>Melaleuca leiocarpa</i> <i>Philotheca brucei</i> subsp. <i>brucei</i> <i>Eremophila latrobei</i> subsp. <i>latrobei</i> <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1.04 (one of three sites), 1.05, 1.14, 1.17: vegetation types of rocky outcrops, duricrust and breakaway habitats, with a tall shrub layer dominated by <i>Acacia cockertoniana</i> and <i>Melaleuca leiocarpa</i> ; <i>Calycopeplus paucifolius</i> is associated with outcropping BIF rises (unit 1.05); the typical understory shrubs associated with this group (e.g. <i>Eremophila latrobei</i>) are characteristic of such rocky habitats
Group 6	<i>Acacia quadrimarginea</i> / <i>A.</i> ?sp. Mt Jackson † <i>Eremophila forrestii</i> subsp. <i>forrestii</i> <i>Aristida contorta</i> <i>Austrostipa eremophila</i> <i>Mirbelia microphylla</i>	1.13: <i>Acacia quadrimarginea</i> tall open shrubland over <i>Eremophila forrestii</i> open shrubland on orange sand on a low granite rise in the haul road corridor
Group 7	– (single site)	1.02 (one of three sites): it is not clear why the single site in this group (quadrat DEC05) clusters separately from the other sites, however it may be due to the absence of the otherwise widespread wattle species <i>Acacia ramulosa</i> , <i>A.</i> sp. narrow phyllode and <i>A. cockertoniana</i>
Group 8	<i>Eucalyptus salubris</i> , <i>Atriplex stipitata</i> , <i>Eremophila scoparia</i> , <i>Atriplex nummularia</i> subsp. <i>spathulata</i> , <i>Austrostipa elegantissima</i>	2.01 (four of five sites): Gimlet (<i>Eucalyptus salubris</i>) / York Gum (<i>Eucalyptus loxophleba</i>) woodlands over mixed <i>Atriplex</i> low shrublands; on loamy flats, particularly in broad drainage zones

† Species treated as a single taxon for the purposes of this analysis (see Section 3.4).

Table 5.2: Floristic groupings assigned by the 'similarity percentages' routine (SIMPER) in PRIMER, and the key indicator species and vegetation units associated with these groups. (Data comprised estimated percentage cover values for perennial species in quadrats only.)

Group	Top Five Species Contributing to the Similarity of Sites in this Group	Associated Vegetation Types
Group 9	<i>Acacia ramulosa</i> var. <i>ramulosa</i> <i>Acacia cockertoniana</i> <i>Philotheca brucei</i> subsp. <i>brucei</i> <i>Acacia incurvaneura</i> <i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260)	1.01, 1.02 (one of three sites), 1.06, 1.10 (one of two sites), 1.11, 1.15, 1.18, 2.02 (two of five sites), 2.05: this group contains the greatest number of vegetation units, which share tall shrublands dominated by <i>Acacia cockertoniana</i> and <i>A. ramulosa</i> , with varying amounts of different types of Mulga (particularly <i>Acacia incurvaneura</i>); a suite of shared understorey species also unites these sites floristically, although structurally they appear relatively distinct in the field. Unit 1.06 (<i>Dryandra arborea</i> tall shrubland, represented by quadrat DEC14) contains a dominant species that is absent from all other units in the study area, however this is not sufficient to cause this vegetation type to cluster separately.
Group 10	<i>Acacia ramulosa</i> var. <i>ramulosa</i> <i>Eremophila forrestii</i> subsp. <i>forrestii</i> <i>Senna artemisioides</i> subsp. <i>filifolia</i> <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831) <i>Acacia tetragonophylla</i>	1.02 (one of three sites), 1.12: <i>Acacia ramulosa</i> , <i>A. sp.</i> narrow phyllode tall shrublands over open shrublands containing <i>Eremophila forrestii</i> and <i>Senna artemisioides</i> subsp. <i>filifolia</i> , occurring on sandy plains in the haul road corridor
Group 11	<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831) <i>Acacia tetragonophylla</i> <i>Abutilon cryptopetalum</i> <i>Marsdenia australis</i> <i>Ptilotus obovatus</i> var. <i>obovatus</i>	1.03 (one of three sites), 1.10 (one of two sites): it is not apparent why these two sites cluster together in exclusion to the other quadrats, however the relationship disappears when presence / absence data from the quadrats and relevés are considered together
Group 12	<i>Casuarina pauper</i> <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831) <i>Bossiaea walkeri</i> <i>Acacia caesaneura</i> (narrow phyllode variant) <i>Acacia ramulosa</i> var. <i>ramulosa</i>	2.03: <i>Casuarina pauper</i> low open woodland over a mixed shrubland dominated by <i>Bossiaea walkeri</i> on plains
Group 13	<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831) <i>Eremophila granitica</i> / <i>metallicorum</i> † <i>Acacia ramulosa</i> var. <i>ramulosa</i> <i>Acacia tetragonophylla</i> <i>Exocarpos aphyllus</i>	1.03 (two of three sites), 2.10: tall shrublands of <i>Acacia</i> sp. narrow phyllode and <i>A. ramulosa</i> , along with <i>A. tetragonophylla</i> , over open shrublands dominated by <i>Eremophila granitica</i> / <i>E. metallicorum</i> . Although unit 2.10 (represented by quadrat DEC39) features a low open woodland of <i>Callitris columellaris</i> and is structurally distinct, this is not sufficient to cause this vegetation type to cluster separately when the percentage cover data are considered in isolation; however, sites from this unit cluster together when presence / absence data are analysed
Group 14	<i>Eucalyptus formanii</i> <i>Acacia ramulosa</i> var. <i>ramulosa</i> <i>Acacia colletioides</i> <i>Austrostipa elegantissima</i> <i>Dianella revoluta</i> var. <i>divaricata</i>	2.08, 2.13: Low open woodlands dominated by <i>Eucalyptus formanii</i> over mixed open shrublands including <i>Acacia ramulosa</i> ; although unit 2.13 (represented by quadrat DEC56) supported a very open hummock grassland of <i>Triodia rigidissima</i> and was structurally distinct, this was not sufficient to cause it to cluster separately when only percentage data were considered; differences became more apparent on inspection of presence / absence data
Group 15	<i>Eucalyptus corrugata</i> <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831) <i>Acacia ramulosa</i> var. <i>ramulosa</i> <i>Olearia muelleri</i> <i>Senna artemisioides</i> subsp. <i>filifolia</i>	2.01 (one of five sites), 2.02 (three of five sites), 2.04, 2.06, 2.07, 2.09, 2.11, 2.14: this floristic group contained various vegetation types that shared a low open woodland containing substantial amounts of <i>Eucalyptus corrugata</i> , although other eucalypts were also present, over shrublands of mixed species that typically included <i>Olearia muelleri</i> and <i>Senna artemisioides</i> subsp. <i>filifolia</i>

† Species treated as a single taxon for the purposes of this analysis (see Section 3.4).

5.4 Vegetation of Conservation Significance

Virtually all of the vegetation within the study area was in Pristine to Excellent condition. Most areas showed only limited signs of grazing, and disturbance from mining exploration was largely restricted to sections of the mine area. Although 11 weed species were recorded, all were represented by only a few collections. All of the vegetation units therefore represent intact and high quality examples of native vegetation, and can be considered to be of some conservation significance (see Department of Environment, Water, Heritage and the Arts 2010). Units of elevated conservation significance within the study area have been identified as those present on formal conservation listings, and those that are considered to support unusual or restricted flora species.

No TECs listed at the Federal level under the *EPBC Act 1999* or TECs classified by the DEC (2010b) were identified within the Deception Deposit study area.

Vegetation unit 4.01, the *Ptilotus obovatus* var. *obovatus* low shrubland, is analogous to a component of the Priority 1 PEC 'Windarling Ranges vegetation complex (BIF)' at the Windarling Range (see Section 4.6.2). It is considered that only the two stands in the mine area are analogous to this PEC. Although the small stand in the haul road corridor has the same structure as this vegetation unit, it occurs in a different habitat; this stand may simply represent a group of *Ptilotus obovatus* individuals, rather than the distinct vegetation unit 4.01.

Vegetation units 1.07 and 1.08 (*Acacia effusifolia* tall open shrublands over mixed shrubs, often including Myrtaceae species) support a large number of records of Priority flora and other species of interest (see Sections 6.3.2 and 6.3.3). Due to the large number of records of Priority flora, these areas of sandplain are considered to be of High conservation significance at a local scale. Vegetation units 1.07 and 1.08 occur mainly in the southern half of the haul road corridor, and extend for some distance to the east and west outside of this corridor.

Vegetation unit 1.06, the *Dryandra arborea* tall shrubland on an outcropping BIF rise in the mine area, is considered to be of Moderate conservation significance at a local scale. This vegetation is dominated by a Priority 4 species (*D. arborea*) and the spatial area of the unit is limited. Of further note, vegetation dominated by *Dryandra arborea* on banded ironstone hills in the Menzies area has been classified as a PEC (DEC 2010b).

The other vegetation sub-associations were considered to be relatively typical for the locality, with most having also been recorded from the Windarling Range area to the south (see Table 5.1).

6.0 Flora

6.1 Overview

A total of 324 species of native vascular plant species from 146 genera belonging to 51 families were recorded from the Deception Deposit study area during the current surveys. This total did not include any flora listed as Threatened species under the *EPBC Act 1999*, nor any species listed as DRF under the *Wildlife Conservation Act 1950*. Seven Priority flora species and a number of other flora of conservation interest were recorded (see Section 6.3). A further 11 introduced (weed) species were identified (Section 6.4). A complete species list is provided in Appendix 7.

Although not systematically sampled (see Section 3.5), five fungi taxa were also collected. These have been determined as far as possible (Section 6.5).

6.2 Dominant Taxa and Groups

The plant families and genera with the greatest number of native taxa within the study area are shown in Table 6.1. These families and genera are those that are generally dominant in the vegetation of this locality.

Table 6.1: Number of native plant species in the dominant plant families and genera within the Deception Deposit study area.

Family	Number of Native Species
Fabaceae (wattle, pea, senna family)	43
Asteraceae (daisy family)	41
Myrtaceae (eucalypt family)	28
Chenopodiaceae (saltbush, bluebush family)	24
Poaceae (grass family)	22
Scrophulariaceae (eremophila family)	19
Genus	Number of Native Species
<i>Acacia</i> (wattles)	34
<i>Eremophila</i> (poverty bushes)	18
<i>Eucalyptus</i> (eucalypts)	12
<i>Austrostipa</i> (speargrasses)	9
<i>Maireana</i> (bluebushes)	8
<i>Grevillea</i> (grevilleas)	7

6.3 Flora of Conservation Significance

6.3.1 Threatened Species and Declared Rare Flora

No Threatened species listed under the *EPBC Act 1999* and no DRF species listed under the *Wildlife Conservation (Rare Flora) Notice 2010(2)* were recorded from the Deception Deposit study area.

Although a small amount of potentially suitable habitat is present for *Ricinocarpos brevis*, this species was not observed during the current field surveys, which included systematic rare flora searches through the entire area. It is therefore considered that this species does not occur within the Deception Deposit study area. There is no suitable habitat for *Tetratheca paynterae* subsp. *cremnobata* or *T. paynterae* subsp. *paynterae* within the study area, and these species would not be expected to occur (see Section 4.7.2).

6.3.2 Priority Flora

The following seven Priority flora species were recorded:

- ***Baeckea ochropetala***

Priority 1

This species was previously thought to be relatively widespread, however a recent review of specimens assigned to this name at the WA Herbarium indicated that only one of these actually matched the type specimen (Malcolm Trudgen, M.E. Trudgen and Associates, pers. comm. 2011). The type specimen was collected "between Ularring and Mt Jackson". Given that these named locations are 73 km northeast of the Deception mine area and 23 km south of the southern end of the haul road corridor, respectively, this suggests that the type was collected within 50 km of the Deception/Windarling locality. Given that only two locations are currently known for this species, it was listed as a Priority 1 species by the DEC.

The records of *Baeckea ochropetala* extended over 1 km of the haul road corridor, beginning approximately 4.5 km south of Pigeon Rocks. A total of 3,843 individuals were recorded, clustered in two main groups (Appendix 6, Map 3A). The records were mainly associated with vegetation unit 1.08, extending into the adjacent units 1.07 and 1.16. During foot traverses between the haul road corridor and the Pigeon Rocks Road, this species was observed to extend between 200-400 m east of the haul road corridor in similar vegetation at an equivalent density (the western extent was not assessed). A total of 5,897 additional individuals were subsequently recorded in this area east of the haul road corridor (Appendix 6, Map 3A). It is likely that additional populations would be located in other suitable habitat outside the study area with further survey effort.

- ***Baeckea* sp. Parker Range (M. Hislop & F. Hart MH2968)**

Priority 3

See Section 4.7.3 for a description of this species. During the current survey work, 859 individuals of *Baeckea* sp. Parker Range (M. Hislop & F. Hart MH2968) were recorded within the Deception mine area. Most plants occurred within eight localised patches, however there were two additional isolated records from the eastern and western sections of the mine area (Appendix 6, Map 1). A further 99 locations comprising 596 individuals have been recorded further north of the study area (Western Botanical 2009). Within the Deception mine area, this species was associated mainly with vegetation types 1.08 and 2.05 (Appendix 6, Map 1).

- ***Philotheca coateana***

Priority 3

This shrub to 0.5 m high has glabrous branchlets with 3-4 mm long leaf blades. The flowers are white or pink, solitary and terminal, and occur from August to September. This species has been recorded from red sand (FloraBase 2011). A single specimen of *Philotheca coateana* was collected from the haul road corridor in 2010, approximately 2.1 km north of Pigeon Rocks. Survey work in 2011 yielded a further 138 individuals in the same area (Appendix 6, Map 2). These records were associated with shrublands of *Acacia effusifolia*, *Grevillea erectiloba* and various Myrtaceae (units 1.07 and 1.08) (Appendix 6, Map 2).

- ***Spartothamnella* sp. Helena & Aurora Range (P.G. Armstrong 1)**

Priority 3

See Section 4.7.3 for a description of this species. A total of 195 individuals of *Spartothamnella* sp. Helena & Aurora Range (P.G. Armstrong 1) were found within the mine area, mainly in the northern section. These were typically associated with *Acacia "aneura"*, *A. ramulosa* tall shrubland (unit 1.02), *Eucalyptus salubris* and/or *E. loxophleba* woodland (unit 2.01), or *E. longissima* (*E. corrugata*) very open tree mallee (unit 2.02) (Appendix 6, Map 1). Another individual was recorded from an area of *Eucalyptus salmonophloia* woodland (unit 2.14) in the southern third of the haul road corridor (Appendix 6, Map 4). A single individual was also recorded further south in the haul road corridor, in *Casuarina pauper* low open woodland (unit 2.03) south of the Windarling Range, with a further 16 plants located outside the corridor in this same area (Appendix 6, Map 4).

- ***Dryandra arborea***

Priority 4

See Section 4.7.3 for a description of this species. Eight individuals of *Dryandra arborea* were recorded from a single area of rocky hillslope within the mine area, associated with vegetation type 1.06 (Appendix 6, Map 1). These were the same plants previously recorded by Western Botanical (2009).

- ***Eucalyptus formanii***

Priority 4

See Section 4.7.3 for a description of this species. During the current survey work, 1,153 individuals of *Eucalyptus formanii* were recorded within the study area¹³. Three additional plants were recorded by Western Botanical (2009). These were mostly distributed through the northern two-thirds of the haul road corridor, with some records in the northeastern section of the mine area. *Eucalyptus formanii* was mainly associated with vegetation types 1.08, 2.02, 2.05, 2.08, 2.13 (Appendix 6, Maps 1, 2 and 3D).

- ***Grevillea erectiloba***

Priority 4

This shrub species grows to 3 m in height, and has red flowers from September to October (FloraBase 2011). The erect leaves have dissected leaf blades, which are up to 7.5 cm long and 1 mm wide with revolute margins (Plate 6.1). *Grevillea erectiloba* has been recorded from various locations, mainly in the Coolgardie and Murchison bioregions, with an outlying record from the Nullarbor bioregion (FloraBase 2011). Although described as occurring on dry, stony or gravelly loam on lateritic rises (Olde and Marriott 1995), this species was recorded from gravelly sandplain habitat within the haul road corridor. A total of 735 individuals of this species were recorded. The majority of these records were from approximately 3.5 km south of Pigeon Rocks, occurring over a 3.6 km stretch and mainly associated with vegetation units 1.07 and 1.08 (Appendix 6, Map 3C). There was another cluster of records approximately 2 km north of Pigeon Rocks, again associated with vegetation unit 1.08 (Appendix 6, Map 3C). Four smaller clusters of plants were located north and south of this stand (Appendix 6, Map 3C).



Plate 6.1: *Grevillea erectiloba* (clockwise from top left): growth form, leaves and flowers.

¹³ This includes some of the locations recorded by WB (2010) within the lease area, which were re-recorded during the current survey work.

6.3.3 Taxa Likely to be Nominated as Priority Flora

- ***Philothea deserti* subsp. ?nov.**

The specimens of *Philothea deserti* recorded from the study area appeared to differ from either of the currently described subspecies. It is considered that these may represent a new subspecies (M. Hislop, WA Herbarium, pers. comm. 2010). A total of 1,003 individuals were recorded from the southern half of the haul road corridor, spread over a distance of some 3.3 km (Appendix 6, Map 3B). These were mainly associated with the *Acacia effusifolia* tall shrublands over mixed shrublands or myrtaceous heaths (units 1.07 and 1.08; to a lesser extent 1.15). As for *Baeckea ochropetala*, this species would be expected to occur with similar abundance in suitable habitat outside of the haul road corridor.

6.3.4 Unresolved Flora Species

A number of the specimens were not able to be conclusively determined to species level, either due to a lack of adequate material and/or because the taxonomy of the group is poorly resolved. These are listed in Section 6.3.4.2. However, two taxa represented by relatively good material could not be matched to any described entities by an appropriate specialist. These may represent new species or subspecies (Section 6.3.4.1). The other group of interest comprises species for which the Deception Deposit study area represents a substantial extension to the previously recorded range (Section 6.3.4.3).

6.3.4.1 Possible New Species or Subspecies

- ***Calytrix* sp. nov.**

This taxon has distinctively shaped leaves, which are triquetrous (three-sided) in cross section with a minute, recurved tip. Approximately 219 individuals were recorded from 28 locations, all within a stand of vegetation unit 1.04 on duricrust in the northern section of the Deception mine area (Appendix 6, Map 1; Plate 6.2 shows the typical growth form and habitat).

The specimens from the Deception Deposit study area could not be matched with any currently described species in the Reference Herbarium of the WA Herbarium, however the main collection could not be accessed to further investigate all of the vouchers for this genus (see Section 3.5). Both Malcolm Trudgen (M.E. Trudgen and Associates) and Mike Hislop (WA Herbarium) agreed that this entity was likely to be a new species.



Plate 6.2: The undescrbed *Calytrix* species from the Deception Deposit study area is equivalent to the taxon referred to as "*Calytrix* sp. Jackson Range duricrust, aff. *glutinosa*" by Western Botanical (photographs of plants at Mt Jackson, courtesy of Western Botanical).

This entity has been collected previously by Western Botanical from four populations in the Mt Jackson area (some 45 km south of the Deception population). As it could not be determined to a named species at the time, this taxon is informally referred to by Western Botanical staff as "*Calytrix* sp. Jackson Range duricrust, aff. *glutinosa* (GC, SMc, BE, GO'K 13786)" (B. Eckermann, Western Botanical, pers. comm. 2011).

Voucher specimens of this taxon from the Deception Deposit study area and the Mt Jackson populations have been submitted to Malcolm Trudgen for further consideration, and these specimens will be lodged with the WA Herbarium.

6.3.4.2 Other Unresolved Taxa

Some specimens were unable to be resolved, either because of inadequate material, or because specialist expertise could not be sought in the timeframe of this report (due to the limited number of specialist taxonomists, some taxa may take several months or longer to resolve). These included:

- *Frankenia* – two apparently distinct taxa were recorded; neither is believed to represent any listed Priority flora.
- *Eremophila graniticum* and *E. metallicorum* – difficult to differentiate, and many of the specimens were sterile. Mr Andrew Brown (DEC) intends to review these two species once the WA Herbarium specimens have shifted to the new premises, however it is likely that the specimens from the Deception Deposit study area will not be able to be resolved on the basis of the material collected.
- *Rhagodia* ? *drummondii* – these specimens are quite variable, and it is suspected that two entities have been included under this name.
- *Calandrinia* sp. – Mr Frank Obbens (private consultant) inspected these specimens and was unable to determine them based on the material provided. He considered it possible that they may represent species already recorded for the study area (specifically *Calandrinia eremaea* or *Calandrinia* sp. Blackberry (D.M. Porter 171); F. Obbens, pers. comm. 2011).

Mr Bruce Maslin (WA Herbarium) also advised the following with respect to the Mulga taxa collected from the study area:

- Better material (new vegetative growth, pods and/or flowers) would be required to more adequately determine the unresolved taxa (those indicated by "?" prior to the name).
- Several of the newly described Mulga taxa are known to hybridise, and it can be difficult to resolve these entities (even with good material).
- The new shoots of *Acacia* ?*caesaneura* (narrow phyllode form) differed from typical material in being uniformly covered in resin, rather than striated, as is typical for this entity.
- The *Acacia* ?*incurvaneura* material was unusual in having some recurved phyllodes.

Where there is adequate voucher material, specimens of the above taxa will be submitted to relevant specialists for further consideration and/or to the WA Herbarium.

6.3.4.3 Substantial Range Extensions

- ***Glycine peratosa***

This species was recorded from a single location in the central section of the haul road corridor, approximately 500 m south of Pigeon Rocks (Plate 6.3; Appendix 6, Map 2). This perennial climber has not previously been recorded west of Kalgoorlie in the Coolgardie bioregion, although its distribution extends west of Albany along the southern coast in the Esperance and Jarrah Forest bioregions. There is also a single record from Wongan Hills in the Avon Wheatbelt bioregion, according to Australia's Virtual Herbarium¹⁴. The record from the Deception study area represents the first record for the Southern Cross subregion, and an extension of the known range of this species 320 km northwest in the Coolgardie bioregion.

¹⁴ <http://avh.rbg.vic.gov.au/avh/index.jsp>



Plate 6.3: *Glycine peratosa*: growth form and flowering stem.

- ***Hemigenia ?buccinata***

This specimen appeared to match a voucher identified as *Hemigenia* sp. Paynes Find (A.C. Beaglehole 49138) in the Western Botanical reference collection. This entity is a taxonomic synonym of *Hemigenia buccinata*, which has been recorded from locations including Mt Gibson and Paynes Find in the Avon Wheatbelt, Yalgoo and Murchison bioregions. If the specimen from the Deception Deposit study area is confirmed to be *Hemigenia buccinata*, then this record represents the first record of this species for the Coolgardie bioregion, and an extension of the previously known range approximately 100 km to the southeast.

6.4 Introduced Flora (Weeds)

Eleven species of introduced flora were recorded from the Deception Deposit study area, five of which were outside the current haul road corridor (locations are presented in Table 6.2 and on the vegetation mapping in Appendix 5). In this report, weeds are identified by an asterisk (*) prior to the species name.

Each weed species is described briefly below:

- ****Brassica tournefortii*** (Mediterranean Turnip) is an annual herb to 0.6 m high with yellow, white or cream flowers from June to November. This aggressive weed favours sandy soils of roadsides, coastal areas and cultivated land. This species was recorded twice to the east of the current haul road corridor (Appendix 5, Map 2).
- ****Carrichtera annua*** (Ward's Weed) is an erect, annual herb to 0.4 m high with yellow flowers from September to November. It occurs in semi-arid regions, primarily in the lower half of the State. There was a single record of this species from the same location as the **Brassica* (Appendix 5, Map 2).
- ****Centaurea melitensis*** (Maltese Cockspur) is an annual daisy to 1 m in height. The species is a widespread weed of roadsides, cultivated areas and other disturbed areas from Carnarvon to Eucla (FloraBase 2011). There was a single record of this species from the central section of the Deception mine area (Appendix 5, Map 1).
- ****Cleretum papulosum* subsp. *papulosum*** is a prostrate, succulent herb to 0.1 m high and 0.2 m wide with white and yellow flowers in August and September (FloraBase 2011). It occurs in a variety of substrates in rocky, sloping or flat habitats. There were two records of this species within the study area; one from an otherwise undisturbed area of very sparsely vegetated pavement above a granite breakaway in the current haul road corridor, and one record to the east of the current haul road corridor in the same area as the **Brassica* and **Carrichtera* (Appendix 5, Map 2).
- ****Cuscuta epithymum*** (Lesser Dodder) is a parasitic, twining herb often found on sandy soils over limestone or granite, with white flowers from August to December (FloraBase 2011). There was one record of this species from the haul road corridor, from a low granite rise southwest of Pigeon Rocks (Appendix 5, Map 2).

- ***Cuscuta planiflora** is a parasitic, twining herb of clay flats and hills with white flowers from September to October. There was one record of this species to the east of the current haul road corridor, just south of the records of **Brassica*, etc. (Appendix 5, Map 2).
- ***Erodium cicutarium** (Common Storksbill) is a small herb to 0.2 m with pink to purple or white flowers from May to October. A common weed of crops, pastures and wasteland, Common Storksbill is widely distributed across the southwest of the State. There were two records of this species to the east of the current haul road corridor, both from the area in which the **Brassica* and other weeds were recorded (Appendix 5, Map 2).
- ***Pentaschistis airoides subsp. airoides** is a fine, spreading, annual grass to 0.2 m high. It has red, brown and green flowers from September to October and occurs on a variety of soils on rocky outcrops, riverbanks, valley slopes, flats, ridges and saline areas (FloraBase 2011). There were seven records of this species from locations scattered through the study area (Appendix 5, Maps 1, 2 and 4).
- ***Rostraria pumila** is widely distributed across the mid and lower parts of the State. This annual grass is commonly 0.05 to 0.2 m high with green flowers in winter and spring (FloraBase 2011). There were two records of this species from areas of Salmon Gum woodland (unit 2.14) in the southern section of the haul road corridor (Appendix 5, Map 4), with another record to the east of the current haul road corridor (Appendix 5, Map 2).
- ***Sisymbrium irio** (London Rocket) is an erect, annual or biennial herb to 0.6 m. This species has yellow flowers from July to December and occurs on sandy and clayey soils in a variety of habitats. There were two records of this species to the east of the current haul road corridor, both from the area in which the **Brassica* and other weeds were collected (Appendix 5, Map 2).
- ***Sonchus oleraceus** (Common Sowthistle) is an erect, annual herb to 1.5 m high that flowers all year. It is a very widespread weed of disturbed areas and occurs in a variety of soils (FloraBase 2011). There were two records of this species from an area of Salmon Gum woodland in the southern haul road corridor (Appendix 5, Map 4), and one additional record to the east of the current haul road corridor (Appendix 5, Map 2).

Most of the introduced species recorded from the study area are assigned "Moderate" weed ratings in the draft Environmental Weed Strategy for WA (Department of Conservation and Land Management (CALM) 1999) (see Table 6.2). Although **Centaurea melitensis* falls into this category of weed rankings, this species is considered to be a potentially serious weed for the locality (B. Eckermann, Western Botanical, pers. comm. 2011).

A number of weeds were only recorded from a station outcamp located between the current haul road corridor and Pigeon Rocks (Table 6.2; Appendix 5, Map 2). The area surrounding Pigeon Rocks itself also contained abundant weeds, which are likely to be transported by the stock grazing at this location. Species of note from these areas included records of Wards Weed (**Carrichtera annua*) and Mediterranean Turnip (**Brassica tournefortii*). Wards Weed is listed amongst the weeds posing the greatest threat to rangeland biodiversity by Grice and Martin (2006), and is assigned a weed rating of "High" by CALM (1999). This species is impeding revegetation of rehabilitation areas at Koolyanobbing by excluding native species. Mediterranean Turnip is also rated as "High" by CALM (1999), but is less invasive than Wards Weed. The proximity of these infestations should be considered when preparing the weed hygiene program for the site.

Table 6.2: Weed rating (according to CALM 1999) and locations of introduced flora within the Deception Deposit study area and in close proximity.

Species	Weed Rating	Location	Easting	Northing
Within Deception mine area and current haul road corridor				
* <i>Centaurea melitensis</i>	Moderate	OPP	719378	6695554
* <i>Cleretum papulosum</i> subsp. <i>papulosum</i>	Not listed	DEC-R46	718057	6684110
* <i>Cuscuta epithymum</i>	Moderate	DEC-R40	718008	6686633
* <i>Pentaschistis airoides</i> subsp. <i>airoides</i>	Moderate	DEC41	718063	6685651
		DEC67	720395	6695939
		DEC-R01	719008	6694955
		DEC-R46	718057	6684110
		DEC-R58	717817	6679685
		DEC-R60	716973	6676706
* <i>Rostraria pumila</i>	Moderate	DEC55	717734	6679452
		DEC-R58	717817	6679685
* <i>Sonchus oleraceus</i>	Moderate	DEC58	717794	6679719
		DEC-R58	717817	6679685
Outside current Deception haul road corridor				
* <i>Brassica tournefortii</i>	High	DEC28	717959	6688064
		DEC-R39	717984	6688088
* <i>Carrichtera annua</i>	High	DEC28	717959	6688064
* <i>Cleretum papulosum</i> subsp. <i>papulosum</i>	Not listed	DEC36	717995	6688032
* <i>Cuscuta planiflora</i>	To be advised (would expect a Moderate or Mild rating)	DEC36	717995	6688032
* <i>Erodium cicutarium</i>	Moderate	DEC28	717959	6688064
		DEC-R39	717984	6688088
* <i>Pentaschistis airoides</i> subsp. <i>airoides</i>	Moderate	DEC36	717995	6688032
* <i>Rostraria pumila</i>	Moderate	DEC28	717959	6688064
* <i>Sisymbrium irio</i>	Mild	DEC28	717959	6688064
		DEC-R39	717984	6688088
* <i>Sonchus oleraceus</i>	Moderate	DEC28	717959	6688064

6.5 Fungi

The conservation significance of fungi in inland Western Australia is largely unknown due to a lack of research in this area. No fungi in the Coolgardie bioregion (or any other part of arid inland Australia) are currently classified as DRF or Priority under the State listing prepared by the DEC, or listed as threatened under the Commonwealth *EPBC Act 1999*.

Five species of fungi were recorded opportunistically from the study area, which should by no means be considered a comprehensive list of the taxa present. Three of these fungi are unnamed, potentially new species (Dr Mark Brundrett, the University of WA, pers. comm. 2010). Brief descriptions of these are provided below:

- ***Podaxis pistillaris***

This agaric fungus is one of the more common species encountered through the arid zone.

- ***Pycnoporus coccineus***

This polypore species is a conspicuous bright orange fungus, commonly found on dead wood (Plate 6.4). The tough leathery fruit bodies may persist on wood for many years before decaying. The bracket-like, semi-circular fruit body is 30-130 mm wide, projecting up to 60 mm and is up to 10 mm thick (Bougher and Syme 1998).



Plate 6.4: *Pycnoporus coccineus*: upper and lower sides of fruit body.

- ***Battarrea* sp.**

This species has fruiting bodies up to 400 mm high, rising from a basal cup-like structure. The fungus head is covered by a cap that falls off at maturity, exposing a powdery, cinnamon-coloured spore mass. The stem is hard and woody, with the appearance of peeling bark (Fuhrer 2005).



Plate 6.5: *Battarrea* sp.

- ***Tulostoma* sp.**

This species has very small globular fruiting bodies, only 5 mm wide and 5 mm high (Plate 6.6). The stalk is very slender and approximately 5 mm high. The whitish fruiting body encases the spores, which are released through a small central opening (ostiole).

- ***Geastrum* sp.**

This genus is known as the earthstar fungus and has a base (exoperidium and mesoperidium) that is comprised of star-like rays (Plate 6.7). In the centre is the endoperidium, which has a felty surface and encloses a sack of purple-brown spores. At the top of the endoperidium is the ostiole, which is surrounded by light brown fibrils approximately 1 mm long.



Plate 6.6: *Tulostoma* sp.



Plate 6.7: *Geastrum* sp.

7.0 Conclusions and Recommendations

7.1 Conclusions

7.1.1 Vegetation

Thirty-three vegetation units were described from the Deception Deposit study area, three of which were only recorded outside the current proposed haul road corridor. All of these were intact and good quality examples of native vegetation. Of these:

- No vegetation units are listed as TECs under the Commonwealth *EPBC Act 1999*.
- No vegetation units are classified as TECs by the Western Australian DEC (2010a).
- Vegetation unit 4.01 (*Ptilotus obovatus* var. *obovatus* low open shrubland on rocky slopes) is analogous to one component of the Priority 1 'Windarling Ranges vegetation complex (banded ironstone formation)' PEC at the Windarling Range. This unit occurred in two stands within the mine area. A further stand within the haul road corridor is comparable in structure but occurs in a different habitat; this may simply represent a group of *Ptilotus* individuals, rather than the distinct vegetation unit.
- Vegetation units 1.07 and 1.08 (*Acacia effusifolia* tall open shrublands over mixed shrubs, often including Myrtaceae species) support a number of Priority flora (including *Baeckea ochropetala*, *Baeckea* sp. Parker Range (M. Hislop & F. Hart MH2968), *Grevillea erectiloba* and *Philotheca coateana*) and other species of interest. Due to the number of Priority flora species, these areas of sandplain are considered to be of High conservation significance at a local scale. Vegetation units 1.07 and 1.08 occurred mainly within the southern half of the haul road corridor, and extended beyond the haul road corridor for some distance to the east and west. A few small stands were also present in the northeastern section of the mine area, however these contained fewer Priority flora.
- Vegetation unit 1.06 (*Dryandra arborea* tall shrubland on an outcropping BIF rise) is considered to be of Moderate conservation significance at a local scale. This vegetation is dominated by a Priority 4 species (*D. arborea*) and the spatial area of the unit is limited. Of further note, vegetation dominated by *Dryandra arborea* on banded ironstone hills in the Menzies area has been classified as a PEC.

7.1.2 Flora

A total of 324 native vascular flora species were recorded.

No flora species listed as Threatened under the *EPBC Act 1999* were recorded in the study area, and none are considered likely to occur.

No species listed as DRF under the *Wildlife Conservation Act 1950* were recorded from the study area, and none are considered likely to occur.

Seven Priority flora species were recorded:

- *Baeckea ochropetala* (Priority 1): 3,843 individuals of this species were recorded from a 1 km section of the haul road corridor, west of Pigeon Rocks, with 5,897 additional individuals recorded outside the haul road corridor to the east;
- *Baeckea* sp. Parker Range (M. Hislop & F. Hart MH2968) (Priority 3): 859 individuals were recorded from the mine area;
- *Philotheca coateana* (Priority 3): 139 individuals were recorded from the haul road corridor;
- *Spartothamnella* sp. Helena & Aurora Range (P. G. Armstrong 1) (Priority 3): 195 individuals were recorded from the mine area, and two individuals were recorded from the southern section of the haul road corridor;

- *Dryandra (Banksia) arborea* (Priority 4): a stand of eight plants was identified in the mine area;
- *Eucalyptus formanii* (Priority 4): 1,153 individuals were recorded, mainly from the northern two-thirds of the haul road corridor, with some records in the northeastern section of the mine area; and
- *Grevillea erectiloba* (Priority 4): 735 individuals were recorded from the haul road corridor.

Some additional flora of interest were recorded, the most significant of which are:

- *Philotheca deserti* subsp. ?nov.: 1,003 individuals of this species were recorded from the southern half of the haul road corridor; this taxon does not match either of the two currently described subspecies, and a case could be made for a third subspecies (M. Hislop, WA Herbarium, pers. comm. 2011).
- *Calytrix* sp. nov.: this taxon is thought likely to represent a new species, as the material collected does not match the currently described species (M. Hislop, WA Herbarium, pers. comm. 2011); 219 individuals were recorded from the northern section of the mine area.

Eleven introduced flora species were recorded from the Deception Deposit study area, of which only six were present within the mine area and the current proposed haul road corridor. The most serious of these was Maltese Cockspur (**Centaurea melitensis*), which was found at a single location in the mine area.

7.2 Management Recommendations

The following recommendations arise from the vegetation and flora survey of the Deception Deposit study area:

1. The following vegetation units are of elevated conservation significance; disturbance to these units should be avoided or minimised during mine planning where possible:
 - Unit 4.01 (analogous to a part of the Priority 1 Windarling Range PEC);
 - Units 1.07 and 1.08 (support large numbers of records of Priority flora);
 - Unit 1.06 (dominated by the Priority 4 species *Dryandra arborea*).
2. The locations of the seven Priority flora species should be taken into consideration during mine planning, as should the locations of the potentially new species of *Calytrix* and subspecies of *Philotheca deserti*. Clearing of these species should be avoided or minimised during mine planning.
3. Weed hygiene measures should be implemented to minimise the risk of introduction of new weeds to the study area and/or the spread of existing weeds. The area around Pigeon Rocks is heavily utilised by cattle and supports numerous weeds. This area is likely to represent a continual source of weed propagules for the locality, and this should be taken into account in development of the weed management program.
4. Standard dust suppression should be implemented to minimise the potential for dust impacts on vegetation and flora during construction and operation.
5. Construction personnel should be made aware of vegetation and flora of particular conservation significance occurring on site. Clearing boundaries should be marked on site and there should be no clearing beyond these set limits.

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Appendix 1

Framework for Conservation Significance Ranking of Communities and Flora Species by the WA DEC



A. Definitions, Categories and Criteria for Threatened and Priority Ecological Communities

1. General Definitions

Ecological Community

A naturally occurring biological assemblage that occurs in a particular type of habitat.

Note: The scale at which ecological communities are defined will often depend on the level of detail in the information source, therefore no particular scale is specified.

A **threatened ecological community** (TEC) is one which is found to fit into one of the following categories; "presumed totally destroyed", "critically endangered", "endangered" or "vulnerable".

Possible threatened ecological communities that do not meet survey criteria are added to DEC's Priority Ecological Community Lists under Priorities 1, 2 and 3. Ecological Communities that are adequately known, 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.

An **assemblage** is a defined group of biological entities.

Habitat is defined as the areas in which an organism and/or assemblage of organisms lives. It includes the abiotic factors (e.g. substrate and topography), and the biotic factors.

Occurrence: a discrete example of an ecological community, separated from other examples of the same community by more than 20 metres of a different ecological community, an artificial surface or a totally destroyed community.

By ensuring that every discrete occurrence is recognised and recorded future changes in status can be readily monitored.

Adequately Surveyed is defined as follows:

"An ecological community that has been searched for thoroughly in most likely habitats, by relevant experts."

Community structure is defined as follows:

"The spatial organisation, construction and arrangement of the biological elements comprising a biological assemblage" (e.g. Eucalyptus salmonophloia woodland over scattered small shrubs over dense herbs; structure in a faunal assemblage could refer to trophic structure, e.g. dominance by feeders on detritus as distinct from feeders on live plants).

Definitions of **Modification** and **Destruction** of an ecological community:

Modification: "changes to some or all of ecological processes (including abiotic processes such as hydrology), species composition and community structure as a direct or indirect result of human activities. The level of damage involved could be ameliorated naturally or by human intervention."

Destruction: "modification such that reestablishment of ecological processes, species composition and community structure within the range of variability exhibited by the original community is unlikely within the foreseeable future even with positive human intervention."

Note: Modification and destruction are difficult concepts to quantify, and their application will be determined by scientific judgement. Examples of modification and total destruction are cited below:

Modification of ecological processes: The hydrology of Toolibin Lake has been altered by clearing of the catchment such that death of some of the original flora has occurred due to dependence on fresh water. The system may be bought back to a semblance of the original state by redirecting saline runoff and pumping waters of the rising underground watertable away to restore the hydrological balance. Total destruction of downstream lakes has occurred due to hydrology being altered to the point that few of the original flora or fauna species are able to tolerate the level of salinity and/or water logging.

Modification of structure: The understorey of a plant community may be altered by weed invasion due to nutrient enrichment by addition of fertiliser. Should the additional nutrients be removed from the system the balance may be restored, and the original plant species better able to compete. Total destruction may occur if additional nutrients continue to be added to the system causing the understorey to be completely replaced by weed species, and death of overstorey species due to inability to tolerate high nutrient levels.

Modification of species composition: Pollution may cause alteration of the invertebrate species present in a freshwater lake. Removal of pollutants may allow the return of the original inhabitant species. Addition of residual highly toxic substances may cause permanent changes to water quality, and total destruction of the community.

Threatening processes are defined as follows:

"Any process or activity that threatens to destroy or significantly modify the ecological community and/or affect the continuing evolutionary processes within any ecological community."

Examples of some of the continuing threatening processes in Western Australia include: general pollution; competition, predation and change induced in ecological communities as a result of introduced animals; competition and displacement of native plants by introduced species; hydrological changes; inappropriate fire regimes; diseases resulting from introduced micro-organisms; direct human exploitation and disturbance of ecological communities.

Restoration is defined as returning an ecological community to its pre-disturbance or natural state in terms of abiotic conditions, community structure and species composition.

Rehabilitation is defined as the re-establishment of ecological attributes in a damaged ecological community although the community will remain modified.

2. Definitions and Criteria for Presumed Totally Destroyed, Critically Endangered, Endangered and Vulnerable Ecological Communities

ECOLOGICAL COMMUNITIES

Presumed Totally Destroyed (PD)

An ecological community that has been adequately searched for but for which no representative occurrences have been located. The community has been found to be totally destroyed or so extensively modified throughout its range that no occurrence of it is likely to recover its species composition and/or structure in the foreseeable future.

An ecological community will be listed as presumed totally destroyed if there are no recent records of the community being extant and either of the following applies (A or B):

- A) Records within the last 50 years have not been confirmed despite thorough searches of known or likely habitats or
- B) All occurrences recorded within the last 50 years have since been destroyed

Critically Endangered (CR)

An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or that was originally of limited distribution and is facing severe modification or destruction throughout its range in the immediate future, or is already severely degraded throughout its range but capable of being substantially restored or rehabilitated.

An ecological community will be listed as Critically Endangered when it has been adequately surveyed and is found to be facing an extremely high risk of total destruction in the immediate future. This will be determined on the basis of the best available information, by it meeting any one or more of the following criteria (A, B or C):

- A) The estimated geographic range, and/or total area occupied, and/or number of discrete occurrences since European settlement have been reduced by at least 90% and either or both of the following apply (i or ii):
 - i) geographic range, and/or total area occupied and/or number of discrete occurrences are continuing to decline such that total destruction of the community is imminent (within approximately 10 years);
 - ii) modification throughout its range is continuing such that in the immediate future (within approximately 10 years) the community is unlikely to be capable of being substantially rehabilitated.
- B) Current distribution is limited, and one or more of the following apply (i, ii or iii):
 - i) geographic range and/or number of discrete occurrences, and/or area occupied is highly restricted and the community is currently subject to known threatening processes which are likely to result in total destruction throughout its range in the immediate future (within approximately 10 years);
 - ii) there are very few occurrences, each of which is small and/or isolated and extremely vulnerable to known threatening processes;

- iii) there may be many occurrences but total area is very small and each occurrence is small and/or isolated and extremely vulnerable to known threatening processes.
- C) The ecological community exists only as highly modified occurrences that may be capable of being rehabilitated if such work begins in the immediate future (within approximately 10 years).

Endangered (EN)

An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or was originally of limited distribution and is in danger of significant modification throughout its range or severe modification or destruction over most of its range in the near future.

An ecological community will be listed as Endangered when it has been adequately surveyed and is not Critically Endangered but is facing a very high risk of total destruction in the near future. This will be determined on the basis of the best available information by it meeting any one or more of the following criteria (A, B, or C):

- A) The geographic range, and/or total area occupied, and/or number of discrete occurrences have been reduced by at least 70% since European settlement and either or both of the following apply (i or ii):
- i) the estimated geographic range, and/or total area occupied and/or number of discrete occurrences are continuing to decline such that total destruction of the community is likely in the short term future (within approximately 20 years);
 - ii) modification throughout its range is continuing such that in the short term future (within approximately 20 years) the community is unlikely to be capable of being substantially restored or rehabilitated.
- B) Current distribution is limited, and one or more of the following apply (i, ii or iii):
- i) geographic range and/or number of discrete occurrences, and/or area occupied is highly restricted and the community is currently subject to known threatening processes which are likely to result in total destruction throughout its range in the short term future (within approximately 20 years);
 - ii) there are few occurrences, each of which is small and/or isolated and all or most occurrences are very vulnerable to known threatening processes;
 - iii) there may be many occurrences but total area is small and all or most occurrences are small and/or isolated and very vulnerable to known threatening processes.
- C) The ecological community exists only as very modified occurrences that may be capable of being substantially restored or rehabilitated if such work begins in the short-term future (within approximately 20 years).

Vulnerable (VU)

An ecological community that has been adequately surveyed and is found to be declining and/or has declined in distribution and/or condition and whose ultimate security has not yet been assured and/or a community that is still widespread but is believed likely to move into a category of higher threat in the near future if threatening processes continue or begin operating throughout its range.

An ecological community will be listed as Vulnerable when it has been adequately surveyed and is not Critically Endangered or Endangered but is facing a high risk of total destruction or significant modification in the medium to long-term future. This will be determined on the basis of the best available information by it meeting any one or more of the following criteria (A, B or C):

- A) The ecological community exists largely as modified occurrences that are likely to be capable of being substantially restored or rehabilitated.
- B) The ecological community may already be modified and would be vulnerable to threatening processes, is restricted in area and/or range and/or is only found at a few locations.
- C) The ecological community may be still widespread but is believed likely to move into a category of higher threat in the medium to long term future because of existing or impending threatening processes.

3. Definitions and Criteria for Priority Ecological Communities

PRIORITY ECOLOGICAL COMMUNITY LIST

Possible threatened ecological communities that do not meet survey criteria or that are not adequately defined are added to the 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.

Priority One: Poorly-known ecological communities

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: Poorly-known ecological communities

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: Poorly known ecological communities

- (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 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.

Reference: Department of Environment and Conservation 2007
(sourced from <http://www.dec.wa.gov.au/content/view/849/2017/>)

B. Threatened Flora Statutory Framework

In Western Australia, all native flora species are protected under the *Wildlife Conservation Act 1950*, making it an offence to remove or harm native flora species without approval. In addition to this basic level of statutory protection, a number of plant species are assigned an additional level of conservation significance based on the fact that there are a limited number of known populations, some of which may be under threat.

Species of the highest conservation significance are designated Declared Rare Flora (DRF), either extant or presumed extinct:

- **X: Declared Rare Flora - Presumed Extinct:** taxa which have not been collected, or otherwise verified, over the past 50 years despite thorough searching, or of which all known wild populations have been destroyed more recently, and have been gazetted as such, following approval by the Minister for the Environment, after recommendation by the State's Endangered Flora Consultative Committee;
- **R: Declared Rare Flora - Extant:** taxa which have been adequately searched for, and are deemed to be in the wild either rare, in danger of extinction, or otherwise in need of special protection, and have been gazetted as such, following approval by the Minister for the Environment, after recommendation by the State's Endangered Flora Consultative Committee (Atkins 2008). (= *Threatened Flora* = *Endangered* + *Vulnerable*)

Species that appear to be rare or threatened, but for which there is insufficient information to properly evaluate their conservation significance, are assigned to one of four Priority flora categories:

- **P1: Priority One - Poorly Known:** taxa which are known from one or a few (generally <5) populations which are under threat, either due to small population size, or being on lands under immediate threat, e.g. road verges, urban areas, farmland, active mineral leases, etc., or the plants are under threat, e.g. from disease, grazing by feral animals, etc. May include taxa with threatened populations on protected lands. Such taxa are under consideration for declaration as 'rare flora', but are in urgent need of further survey.
- **P2: Priority Two - Poorly Known:** taxa which are known from one or a few (generally <5) populations, at least some of which are not believed to be under immediate threat (i.e. not currently endangered). Such taxa are under consideration for declaration as 'rare flora', but are in urgent need of further survey.
- **P3: Priority Three - Poorly Known:** taxa which are known from several populations, at least some of which are not believed to be under immediate threat (i.e. not currently endangered). Such taxa are under consideration for declaration as 'rare flora', but are in need of further survey.
- **P4: Priority Four - Rare:** taxa which are considered to have been adequately surveyed and which, whilst being rare (in Australia), are not currently threatened by any identifiable factors. These taxa require monitoring every 5–10 years.

Note that of the above classifications, only 'Declared Rare Flora' has statutory standing. The Priority Flora classifications are employed by the Department of Environment and Conservation to manage and classify their database of species considered potentially rare or at risk, but these categories have no legislative status. Note also that proposals that appear likely to affect DRF require formal written approval from the Minister for the Environment under Section 23(f) of the *Wildlife Conservation Act 1950* in addition to the requirements of the *Environmental Protection (Native Vegetation Clearing) Regulations 2004*.

References:

Atkins, K.J. (2008). Declared Rare and Priority Flora List for Western Australia. Prepared by the Department of Environment and Conservation, 26 February 2008.

Appendix 2

Database Search Results – *EPBC Act* 1999 Protected Matters and NatureMap





EPBC Act Protected Matters Report: Coordinates

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

You may wish to print this report for reference before moving to other pages or websites.

Information about the EPBC Act including significance guidelines, forms and application process details can be found at <http://www.environment.gov.au/epbc/assessmentsapprovals/index.html>

Report created: 07/01/11 17:30:53

[Summary](#)

[Details](#)

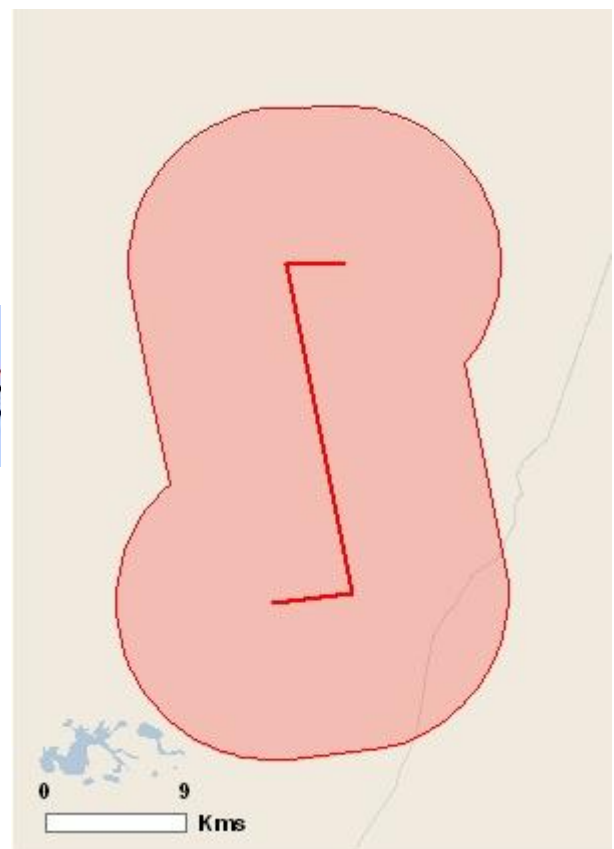
[Matters of NES](#)

[Other matters protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

[Coordinates](#)

Buffer: 10Km

Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the Administrative Guidelines on Significance - see <http://www.environment.gov.au/epbc/assessmentsapprovals/guidelines/index.html>.

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Significance (Ramsar Wetlands):	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Areas:	None
Threatened Ecological Communities:	None
Threatened Species:	4
Migratory Species:	7

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place and the heritage values of a place on the Register of the National Estate. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage/index.html>

Please note that the current dataset on Commonwealth land is not complete. Further information on Commonwealth land would need to be obtained from relevant sources including Commonwealth agencies, local agencies, and land tenure maps.

A permit may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species. Information on EPBC Act permit requirements and application forms can be found at <http://www.environment.gov.au/epbc/permits/index.html>.

Commonwealth Lands:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	4

Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves:	None

Report Summary for Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

Place on the RNE:	None
State and Territory Reserves:	1
Regional Forest Agreements:	None
Invasive Species:	6
Nationally Important Wetlands:	None

Details

Matters of National Environmental Significance

Threatened Species [\[Resource Information \]](#)

Name	Status	Type of Presence
BIRDS		
Acanthiza iredalei iredalei Slender-billed Thornbill (western) [25967]	Vulnerable	Species or species habitat likely to occur within area
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area
PLANTS		
Ricinocarpos brevis [82879]	Endangered	Species or species habitat known to occur within area
Tetratheca paynterae Paynter's Tetratheca [66451]	Endangered	Species or species habitat known to occur within area

Migratory Species [\[Resource Information \]](#)

Name	Status	Type of Presence
Migratory Marine Birds		
Apus pacificus Fork-tailed Swift [678]		Species or species habitat may occur within area
Ardea alba Great Egret, White Egret [59541]		Species or species habitat may occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Migratory Terrestrial Species		
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area

[Merops ornatus](#)

Rainbow Bee-eater [670]

Species or species habitat may occur within area

Migratory Wetlands Species[Ardea alba](#)Great Egret, White Egret
[59541]

Species or species habitat may occur within area

[Ardea ibis](#)

Cattle Egret [59542]

Species or species habitat may occur within area

Other Matters Protected by the EPBC Act**Listed Marine Species**[\[Resource Information \]](#)

Name

Status

Type of Presence

Birds[Apus pacificus](#)

Fork-tailed Swift [678]

Species or species habitat may occur within area

[Ardea alba](#)Great Egret, White Egret
[59541]

Species or species habitat may occur within area

[Ardea ibis](#)

Cattle Egret [59542]

Species or species habitat may occur within area

[Merops ornatus](#)

Rainbow Bee-eater [670]

Species or species habitat may occur within area

Extra Information**State and Territory Reserves**[\[Resource Information \]](#)

Unnamed WA48470, WA

Invasive Species[\[Resource Information \]](#)

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resources Audit, 2001.

Name

Status

Type of Presence

Mammals[Capra hircus](#)

Goat [2]

Species or species habitat likely to occur within area

[Felis catus](#)Cat, House Cat, Domestic Cat
[19]

Species or species habitat likely to occur within area

[Oryctolagus cuniculus](#)

Rabbit, European Rabbit [128]

Species or species habitat likely to occur within area

[Vulpes vulpes](#)

Red Fox, Fox [18]

Species or species habitat likely to occur within area

Plants[Carrichtera annua](#)

Ward's Weed [9511]

Species or species habitat likely to occur within area

[Cenchrus ciliaris](#)

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World Heritage and Register of National Estate properties, Wetlands of International Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under 'type of presence'. For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers.

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites;
- seals which have only been mapped for breeding sites near the Australian continent.

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Coordinates

119.24861 -30.03778,119.29389 -30.03278,119.25583 -29.84222,119.28944 -29.84139

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Department of Environment, Climate Change and Water, New South Wales](#)
- [-Department of Sustainability and Environment, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment and Natural Resources, South Australia](#)
- [-Parks and Wildlife Service NT, NT Dept of Natural Resources, Environment and the Arts](#)
- [-Environmental and Resource Management, Queensland](#)
- [-Department of Environment and Conservation, Western Australia](#)
- [-Department of the Environment, Climate Change, Energy and Water](#)
- [-Birds Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- [-Natural history museums of Australia](#)
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-SA Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Atherton and Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence](#)
- [-State Forests of NSW](#)
- [-Other groups and individuals](#)

Environment Australia is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

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[Department of Sustainability, Environment, Water, Population and Communities](#)

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NatureMap Species Report

Created By Guest user on 10/08/2010

Kingdom Plantae

Method 'By Circle'

Centre 119°15' 29" E, 29°55' 59" S

Buffer 40km

Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
1.	-1399 <i>Abutilon aff. oxycarpum</i>			Y
2.	4889 <i>Abutilon cryptopetalum</i>			
3.	4902 <i>Abutilon oxycarpum (Flannel Weed)</i>			
4.	16159 <i>Acacia acanthoclada subsp. acanthoclada</i>			
5.	14613 <i>Acacia acanthoclada subsp. glaucescens</i>			
6.	3199 <i>Acacia acuaría</i>			
7.	3200 <i>Acacia acuminata (Jam)</i>			
8.	3216 <i>Acacia andrewsii</i>			
9.	3217 <i>Acacia aneura (Mulga)</i>			
10.	-5562 <i>Acacia aneura group</i>			
11.	19480 <i>Acacia aneura var. argentea</i>			
12.	-6663 <i>Acacia aneura var. argentea (juvenile foliage)</i>			
13.	15679 <i>Acacia aneura var. intermedia</i>			
14.	19482 <i>Acacia aneura var. microcarpa</i>			
15.	3226 <i>Acacia assimilis</i>			
16.	15467 <i>Acacia assimilis subsp. assimilis</i>			
17.	3248 <i>Acacia burkittii (Sandhill Wattle)</i>			
18.	23977 <i>Acacia cockertoniana</i>			
19.	3269 <i>Acacia coolgardiensis (Spinifex Wattle)</i>			
20.	3285 <i>Acacia daviesioides</i>			
21.	3301 <i>Acacia dielsii</i>			
22.	32118 <i>Acacia effusifolia</i>			
23.	12257 <i>Acacia enervia subsp. explicata</i>			
24.	3324 <i>Acacia erinacea</i>			
25.	3366 <i>Acacia hemiteles</i>			
26.	3393 <i>Acacia jennerae</i>			
27.	3395 <i>Acacia jibberdingensis</i>			
28.	3419 <i>Acacia ligulata (Umbrella Bush)</i>			
29.	3426 <i>Acacia longispinea</i>			
30.	15290 <i>Acacia neurophylla subsp. erugata</i>			
31.	3495 <i>Acacia prainii (Prain's Wattle)</i>			
32.	3507 <i>Acacia quadrimarginea</i>			
33.	3510 <i>Acacia ramulosa (Horse Mulga)</i>			
34.	19499 <i>Acacia ramulosa var. ramulosa</i>			
35.	3513 <i>Acacia resinimarginea</i>			
36.	16145 <i>Acacia resinosa</i>			
37.	3545 <i>Acacia sibina</i>			
38.	30717 <i>Acacia sp. Mt Jackson (B. Ryan 176)</i>			
39.	31926 <i>Acacia sp. Wondinong (A.A. Mitchell 917)</i>			
40.	-1333 <i>Acacia sp. indet</i>			
41.	29110 <i>Acacia sp. narrow phyllode (B.R. Maslin 7831)</i>			
42.	-6168 <i>Acacia sp. Juliflorae-flat, Eremaean region</i>			
43.	3555 <i>Acacia steedmanii</i>			
44.	23525 <i>Acacia steedmanii subsp. steedmanii</i>			
45.	3577 <i>Acacia tetragonophylla (Kurara)</i>			
46.	1720 <i>Allocasuarina acutivalvis</i>			
47.	13904 <i>Allocasuarina acutivalvis subsp. acutivalvis</i>			
48.	13905 <i>Allocasuarina acutivalvis subsp. prinsepiana</i>			
49.	1721 <i>Allocasuarina campestris</i>			
50.	1722 <i>Allocasuarina corniculata</i>			
51.	1725 <i>Allocasuarina dielsiana (Northern Sheoak)</i>			
52.	12657 <i>Allocasuarina eriochlamys</i>			
53.	13906 <i>Allocasuarina eriochlamys subsp. eriochlamys</i>			
54.	1730 <i>Allocasuarina helmsii</i>			
55.	12655 <i>Allocasuarina spinosissima</i>			
56.	19467 <i>Aluta appressa</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
57.	19466 <i>Aluta aspera</i> subsp. <i>aspera</i>			
58.	6565 <i>Alyxia buxifolia</i> (Dysentery Bush)			
59.	14636 <i>Alyxia tetanifolia</i>		P3	
60.	-1306 <i>Amphipogon</i> cf. <i>carcinus</i> var. <i>carcinus</i>			
61.	-1305 <i>Amphipogon</i> sp. <i>indet</i>			
62.	199 <i>Amphipogon strictus</i> (Greybeard Grass)			
63.	2369 <i>Amyema benthamii</i>			
64.	2380 <i>Amyema miquelii</i> (Stalked Mistletoe)			
65.	2382 <i>Amyema nestor</i>			
66.	7836 <i>Angianthus tomentosus</i> (Camel-grass)			
67.	207 <i>Aristida contorta</i> (Bunched Kerosene Grass)			
68.	-1301 <i>Aristida</i> sp. <i>indet</i>			
69.	1265 <i>Arthropodium curvipes</i>			
70.	17039 <i>Astartea</i> sp. Mt Dimer (C. McChesney TRL4/72)		P1	Y
71.	7846 <i>Asteridea athrixoides</i>			
72.	7847 <i>Asteridea chaetopoda</i>			
73.	2469 <i>Atriplex nummularia</i> (Old Man Saltbush)			
74.	11516 <i>Atriplex nummularia</i> subsp. <i>spatulata</i> (Old Man Saltbush)			
75.	-10951 <i>Atriplex</i> sp.			
76.	2481 <i>Atriplex vesicaria</i> (Bladder Saltbush)			
77.	17950 <i>Austrodanthonia caespitosa</i>			
78.	17945 <i>Austrodanthonia setacea</i>			
79.	-1316 <i>Austrodanthonia</i> sp. <i>indet</i>			
80.	-1312 <i>Austrostipa</i> aff. <i>scabra</i> (AM & SD 6107)			
81.	-1311 <i>Austrostipa</i> cf. <i>blackii</i>			
82.	17237 <i>Austrostipa elegantissima</i>			
83.	17246 <i>Austrostipa nitida</i>			
84.	17247 <i>Austrostipa platychaeta</i>			
85.	17251 <i>Austrostipa scabra</i>			
86.	-1314 <i>Austrostipa scabra</i> - atypical form (AM & SD 6110)			
87.	-1310 <i>Austrostipa</i> sp. <i>indet</i>			
88.	17255 <i>Austrostipa trichophylla</i>			
89.	5341 <i>Baeckea crispiflora</i>			
90.	5344 <i>Baeckea elderiana</i>			
91.	5356 <i>Baeckea muricata</i>			
92.	17287 <i>Baeckea recurva</i>			
93.	16737 <i>Baeckea</i> sp. Bencubbin-Koorda (M.E. Trudgen 5421)			
94.	20616 <i>Baeckea</i> sp. Die Hardy (E. Mattiske J91)		P1	Y
95.	20690 <i>Baeckea</i> sp. Mt Jackson (G.J. Keighery 4362)			Y
96.	20804 <i>Baeckea</i> sp. Parker Range (M. Hislop & F. Hort MH 2968)		P3	
97.	20681 <i>Baeckea</i> sp. Pigeon Rocks (D. Grace DJP 281)		P1	Y
98.	32685 <i>Banksia arborea</i> (Yilgarn Dryandra)		P4	
99.	1815 <i>Banksia elderiana</i> (Swordfish Banksia)			
100.	7852 <i>Bellida graminea</i> (Rosy Bellida)			
101.	34259 <i>Beyeria rostellata</i>		P1	
102.	7856 <i>Blennospora drummondii</i>			
103.	1267 <i>Borya constricta</i>			
104.	33023 <i>Bossiaea</i> sp. Jackson Range (G. Cockerton & S. McNee LCS 13614)		P1	
105.	3722 <i>Bossiaea walkeri</i>			
106.	4999 <i>Brachychiton gregorii</i> (Desert Kurrajong)			
107.	7871 <i>Brachyscome ciliaris</i>			
108.	11884 <i>Brachyscome ciliaris</i> var. <i>lanuginosa</i>			
109.	7872 <i>Brachyscome ciliocarpa</i>			
110.	7880 <i>Brachyscome lineariloba</i>			
111.	7882 <i>Brachyscome perpusilla</i>			
112.	-1442 <i>Brachyscome</i> sp. <i>indet</i>			
113.	247 <i>Bromus arenarius</i> (Sand Brome)			
114.	249 <i>Bromus diandrus</i> (Great Brome)	Y		
115.	7413 <i>Brunonia australis</i> (Native Cornflower)			
116.	3167 <i>Bursaria occidentalis</i>			
117.	15356 <i>Caladenia incensa</i>			
118.	15357 <i>Caladenia incrassata</i>			
119.	-1585 <i>Caladenia lavandulacea</i>			Y
120.	19219 <i>Caladenia mesocera</i>			
121.	18028 <i>Caladenia remota</i>			Y
122.	1614 <i>Caladenia roei</i> (Ant Orchid)			
123.	30797 <i>Caladenia saxicola</i>			
124.	1617 <i>Caladenia sigmoidea</i>			
125.	18594 <i>Caladenia</i> sp. Muddarning Hill (S.D. Hopper 4013)			
126.	-1467 <i>Caladenia</i> sp. <i>indet</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
127.	19455 <i>Calandrinia</i> sp. <i>Bungalbin</i> (G.J. Keighery & N. Gibson 1656)			
128.	-1528 <i>Calandrinia</i> sp. <i>indet</i>			
129.	8466 <i>Callitris columellaris</i> (<i>White Cypress Pine</i>)			
130.	96 <i>Callitris preissii</i> (<i>Rottnest Island Pine</i>)			
131.	5408 <i>Calothamnus gilesii</i>			
132.	13232 <i>Calothamnus superbus</i>		P1	
133.	7903 <i>Calotis hispidula</i> (<i>Bindy Eye</i>)			
134.	16492 <i>Calycopeplus paucifolius</i>			
135.	5452 <i>Calytrix divergens</i>			
136.	5470 <i>Calytrix paucicostata</i>		P2	
137.	-6014 <i>Calytrix</i> sp.			
138.	28241 <i>Calytrix</i> sp. <i>Paynes Find</i> (F. & J. Hort 1188)			
139.	3008 <i>Carrichtera annua</i> (<i>Ward's Weed</i>)	Y		
140.	7911 <i>Carthamus lanatus</i> (<i>Saffron Thistle</i>)	Y		
141.	2955 <i>Cassylia nodiflora</i>			
142.	12658 <i>Casuarina pauper</i> (<i>Black Oak</i>)			
143.	-9075 <i>Casuarina</i> sp.			
144.	7916 <i>Centaurea melitensis</i> (<i>Maltese Cockspur</i>)	Y		
145.	7922 <i>Cephalopterum drummondii</i> (<i>Pompom Head</i>)			
146.	7924 <i>Ceratogyne obionoides</i> (<i>Wingwort</i>)			
147.	1215 <i>Chamaexeros fimbriata</i>			
148.	1216 <i>Chamaexeros macranthera</i>			
149.	-4393 <i>Chamelaucium</i> sp.			
150.	12796 <i>Cheilanthes adiantoides</i>			
151.	31 <i>Cheilanthes austrotenuifolia</i>			
152.	32 <i>Cheilanthes brownii</i>			
153.	37 <i>Cheilanthes lasiophylla</i> (<i>Woolly Cloak Fern</i>)			
154.	12818 <i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>			
155.	-1477 <i>Cheilanthes</i> sp. <i>indet</i>			
156.	3168 <i>Cheiranthra filifolia</i>			
157.	7933 <i>Chthonocephalus pseudevax</i> (<i>Woolly Groundheads</i>)			
158.	4555 <i>Comesperma integerrimum</i>			
159.	7943 <i>Cotula australis</i> (<i>Common Cotula</i>)			
160.	3137 <i>Crassula colorata</i> (<i>Dense Stonecrop</i>)			
161.	11709 <i>Crassula colorata</i> var. <i>acuminata</i>			
162.	11563 <i>Crassula colorata</i> var. <i>colorata</i>			
163.	11349 <i>Crassula decumbens</i> var. <i>decumbens</i>			
164.	3139 <i>Crassula exserta</i>			
165.	-1496 <i>Crassula</i> sp. <i>indet</i>			
166.	20268 <i>Crassula tetramera</i>			
167.	7951 <i>Cratystylis subspinescens</i>			
168.	4791 <i>Cryptandra apetala</i>			
169.	13471 <i>Cryptandra connata</i>			
170.	16185 <i>Cryptandra graniticola</i>			
171.	-12253 <i>Cryptandra</i> sp.			
172.	-1554 <i>Cuscuta</i> cf. <i>epithimum</i>			
173.	6663 <i>Cuscuta epithimum</i> (<i>Lesser Dodder</i>)	Y		
174.	15400 <i>Cyanicula amplexans</i>			
175.	-1468 <i>Cyanicula</i> sp. <i>indet</i>			
176.	6747 <i>Cyanostegia angustifolia</i> (<i>Tinsel-flower</i>)			
177.	7438 <i>Dampiera eriocephala</i> (<i>Woolly-headed Dampiera</i>)			
178.	7469 <i>Dampiera roycei</i>			
179.	292 <i>Danthonia caespitosa</i> (<i>Common Wallaby Grass</i>)			
180.	6218 <i>Daucus glochidiatus</i> (<i>Australian Carrot</i>)			
181.	15505 <i>Daviesia incrassata</i> subsp. <i>incrassata</i>			
182.	3836 <i>Daviesia purpurascens</i> (<i>Purple-leaved Daviesia</i>)		P4	
183.	1259 <i>Dianella revoluta</i> (<i>Blueberry Lily</i>)			
184.	11636 <i>Dianella revoluta</i> var. <i>divaricata</i>			
185.	29315 <i>Dicrastylis rugosifolia</i>			
186.	15436 <i>Diuris porrifolia</i>			
187.	4752 <i>Dodonaea adenophora</i>			
188.	4769 <i>Dodonaea lobulata</i> (<i>Bead Hopbush</i>)			
189.	12034 <i>Dodonaea microzygia</i> var. <i>acrolobata</i>			
190.	4775 <i>Dodonaea pinifolia</i>			
191.	4779 <i>Dodonaea rigida</i>			
192.	-1481 <i>Dodonaea</i> sp. <i>indet</i>			
193.	4782 <i>Dodonaea viscosa</i> (<i>Sticky Hopbush</i>)			
194.	11674 <i>Dodonaea viscosa</i> subsp. <i>mucronata</i>			
195.	11202 <i>Dodonaea viscosa</i> subsp. <i>spatulata</i> (<i>Sticky Hop-bush</i>)			
196.	3106 <i>Drosera macrantha</i> (<i>Bridal Rainbow</i>)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
197.	14298 <i>Drosera macrantha</i> subsp. <i>macrantha</i>			
198.	-1464 <i>Drosera</i> sp. <i>indet</i>			
199.	33479 <i>Dysphania melanocarpa</i> (<i>Black Crumbweed</i>)			
200.	33597 <i>Dysphania melanocarpa</i> forma <i>melanocarpa</i> (<i>Black Goosefoot</i>)			
201.	354 <i>Elymus scaber</i>			
202.	2510 <i>Enchylaena lanata</i>			
203.	-1547 <i>Enchylaena lanata</i> /tomentosa			
204.	2511 <i>Enchylaena tomentosa</i> (<i>Barrier Saltbush</i>)			
205.	12064 <i>Enchylaena tomentosa</i> var. <i>tomentosa</i> (<i>Barrier Saltbush</i>)			
206.	357 <i>Enneapogon caeruleascens</i> (<i>Limestone Grass</i>)			
207.	32353 <i>Entosthodon apophysatus</i>			
208.	378 <i>Eragrostis dielsii</i> (<i>Mallee Lovegrass</i>)			
209.	7180 <i>Eremophila alternifolia</i> (<i>Poverty Bush</i>)			
210.	13807 <i>Eremophila caperata</i>			
211.	7189 <i>Eremophila clarkei</i> (<i>Turpentine Bush</i>)			
212.	14895 <i>Eremophila decipiens</i> subsp. <i>decipiens</i>			
213.	7204 <i>Eremophila eriocalyx</i> (<i>Desert Pride</i>)			
214.	7206 <i>Eremophila falcata</i>			
215.	7208 <i>Eremophila forrestii</i> (<i>Wilcox Bush</i>)			
216.	15052 <i>Eremophila forrestii</i> subsp. <i>forrestii</i>			
217.	7211 <i>Eremophila georgei</i>			
218.	7215 <i>Eremophila glabra</i> (<i>Tar Bush</i>)			
219.	17175 <i>Eremophila glabra</i> subsp. <i>albicans</i>			
220.	14340 <i>Eremophila glabra</i> subsp. <i>glabra</i>			
221.	14191 <i>Eremophila glabra</i> subsp. <i>tomentosa</i>			
222.	-12508 <i>Eremophila glandulifera</i> / <i>leucophylla</i>			Y
223.	7216 <i>Eremophila glutinosa</i>			
224.	7219 <i>Eremophila granitica</i> (<i>Thin-leaved Poverty Bush</i>)			
225.	7226 <i>Eremophila ionantha</i> (<i>Violet-flowered Eremophila</i>)			
226.	7230 <i>Eremophila latrobei</i> (<i>Warty Fuchsia Bush</i>)			
227.	17576 <i>Eremophila latrobei</i> subsp. <i>latrobei</i>			
228.	7240 <i>Eremophila metallicorum</i>			
229.	7246 <i>Eremophila oldfieldii</i> (<i>Pixie Bush</i>)			
230.	15003 <i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>			
231.	7247 <i>Eremophila oppositifolia</i> (<i>Weeooka</i>)			
232.	18570 <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>			
233.	7250 <i>Eremophila pantonii</i>			
234.	7267 <i>Eremophila scoparia</i> (<i>Broom Bush</i>)			
235.	7269 <i>Eremophila serrulata</i> (<i>Serrate-leaved Eremophila</i>)			
236.	-9235 <i>Eremophila</i> sp.			
237.	19528 <i>Eremophila</i> sp. <i>Mt Jackson</i> (G.J. Keighery 4372)			
238.	-1562 <i>Eremophila</i> sp. <i>indet</i>			
239.	417 <i>Eriachne pulchella</i> (<i>Pretty Wanderrie</i>)			
240.	16486 <i>Eriachne pulchella</i> subsp. <i>pulchella</i>			
241.	20718 <i>Ericksonella saccharata</i>			
242.	2514 <i>Eriochiton sclerolaenoides</i> (<i>Woolly Bindii</i>)			
243.	4331 <i>Erodium aureum</i>	Y		
244.	4333 <i>Erodium cicutarium</i> (<i>Common Storksbill</i>)	Y		
245.	4334 <i>Erodium crinitum</i> (<i>Corkscrew</i>)			
246.	4335 <i>Erodium cygnorum</i> (<i>Blue Heronsbill</i>)			
247.	-1465 <i>Erodium</i> sp. <i>indet</i>			
248.	14377 <i>Erymophyllum ramosum</i> subsp. <i>ramosum</i>			
249.	12904 <i>Eucalyptus capillosa</i>			
250.	12903 <i>Eucalyptus capillosa</i> subsp. <i>capillosa</i> (<i>Wheatbelt Wandoo</i>)			
251.	5592 <i>Eucalyptus clelandii</i> (<i>Cleland's Blackbutt</i>)			
252.	5595 <i>Eucalyptus comitae-vallis</i> (<i>Comet Vale Mallee</i>)			
253.	5596 <i>Eucalyptus concinna</i> (<i>Victoria Desert Mallee</i>)			
254.	-7020 <i>Eucalyptus concinna</i> x <i>corrugata</i>			Y
255.	5605 <i>Eucalyptus cornuta</i> (<i>Yate</i>)			
256.	5607 <i>Eucalyptus corrugata</i> (<i>Rough-fruited Mallee</i>)			
257.	-6794 <i>Eucalyptus cylindroidea</i>			
258.	5632 <i>Eucalyptus ebbanoensis</i> (<i>Sandplain Mallee</i>)			
259.	13549 <i>Eucalyptus ebbanoensis</i> subsp. <i>ebbanoensis</i>			
260.	18349 <i>Eucalyptus ebbanoensis</i> subsp. <i>glauca</i>			
261.	5641 <i>Eucalyptus ewartiana</i> (<i>Ewart's Mallee</i>)			
262.	5651 <i>Eucalyptus formanii</i>		P4	
263.	5665 <i>Eucalyptus griffithsii</i> (<i>Griffith's Grey Gum</i>)			
264.	5673 <i>Eucalyptus horistes</i>			
265.	19523 <i>Eucalyptus kochii</i> subsp. <i>amaryssia</i>			
266.	15670 <i>Eucalyptus kochii</i> subsp. <i>plenissima</i>			

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267.	5696 <i>Eucalyptus leptopoda</i> (Tammin Mallee)			
268.	13059 <i>Eucalyptus leptopoda</i> subsp. <i>leptopoda</i>			
269.	13056 <i>Eucalyptus leptopoda</i> subsp. <i>subluta</i>			
270.	20802 <i>Eucalyptus longissima</i>			
271.	5702 <i>Eucalyptus loxophleba</i> (York Gum)			
272.	13037 <i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>			
273.	13038 <i>Eucalyptus loxophleba</i> subsp. <i>supralaevis</i>			
274.	19323 <i>Eucalyptus moderata</i>			
275.	5725 <i>Eucalyptus oldfieldii</i> (Oldfield's Mallee)			
276.	5726 <i>Eucalyptus oleosa</i> (Giant Mallee)			
277.	20091 <i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>			
278.	5731 <i>Eucalyptus orbifolia</i> (Round-leaved Mallee)			
279.	5742 <i>Eucalyptus petraea</i> (Granite Rock Box)			
280.	13520 <i>Eucalyptus polita</i>			
281.	12380 <i>Eucalyptus ravida</i>			
282.	5761 <i>Eucalyptus rigidula</i> (Stiff-leaved Mallee)			
283.	5766 <i>Eucalyptus salmonophloia</i> (Salmon Gum)			
284.	5767 <i>Eucalyptus salubris</i> (Gimlet)			
285.	12883 <i>Eucalyptus subangusta</i> subsp. <i>subangusta</i>			
286.	5793 <i>Eucalyptus transcontinentalis</i> (Redwood)			
287.	15799 <i>Eucalyptus trichopoda</i>			
288.	5802 <i>Eucalyptus yilgarnensis</i> (Yorrell)			
289.	4626 <i>Euphorbia drummondii</i> (Caustic Weed)			
290.	-1521 <i>Euphorbia</i> sp. <i>indet</i>			Y
291.	16722 <i>Euryomyrtus maidenii</i>			
292.	19723 <i>Euryomyrtus patrickiae</i>		P3	
293.	20711 <i>Eutaxia leptophylla</i>			
294.	10977 <i>Exocarpos aphyllus</i> (Leafless Ballart)			
295.	-9421 <i>Frankenia</i> sp.			
296.	17348 <i>Galium aparine</i> (Goosegrass)	Y		
297.	7323 <i>Galium murale</i> (Small Goosegrass)	Y		
298.	-1427 <i>Galium</i> sp. <i>indet</i>			
299.	25797 <i>Galium spurium</i>	Y		
300.	12780 <i>Gilberta tenuifolia</i>			
301.	6144 <i>Glischrocaryon flavescens</i>			
302.	7061 <i>Glossostigma drummondii</i> (Mudmat)			
303.	19925 <i>Glycine peratosa</i>			
304.	7988 <i>Gnephosis arachnoidea</i> (Cobwebby-headed Gnephosis)			
305.	17721 <i>Gnephosis</i> sp. <i>Norseman</i> (K.R. Newbey 8096)		P3	
306.	8002 <i>Gnephosis tenuissima</i>			
307.	6159 <i>Gonocarpus nodulosus</i>			
308.	7495 <i>Goodenia berardiana</i>			
309.	-1507 <i>Goodenia</i> cf. <i>mimuloides</i>			Y
310.	7514 <i>Goodenia havilandii</i>			
311.	12523 <i>Goodenia helmsii</i>			
312.	-1506 <i>Goodenia</i> sp. <i>indet</i>			
313.	1949 <i>Grevillea acuaria</i>			
314.	8830 <i>Grevillea ceratocarpa</i>			
315.	1998 <i>Grevillea erectiloba</i>		P4	
316.	2000 <i>Grevillea eriobotrya</i> (Woolly Cluster Grevillea)		P3	
317.	2004 <i>Grevillea extorris</i>			
318.	2009 <i>Grevillea georgeana</i>		P3	
319.	19541 <i>Grevillea nematophylla</i> subsp. <i>nematophylla</i>			
320.	2051 <i>Grevillea obliquistigma</i>			
321.	15981 <i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i>			
322.	2057 <i>Grevillea paradoxa</i> (Bottlebrush Grevillea)			
323.	15766 <i>Grevillea shuttleworthiana</i> subsp. <i>obovata</i>			
324.	2106 <i>Grevillea tetrapleura</i>		P4	
325.	15982 <i>Grevillea zygoloba</i>			
326.	32386 <i>Grimmia laevigata</i>			
327.	2182 <i>Hakea minyma</i>			
328.	17557 <i>Hakea recurva</i> subsp. <i>recurva</i>			
329.	29840 <i>Halgania cyanea</i> var. <i>Allambi Stn</i> (B.W. Strong 676)			
330.	31117 <i>Halgania cyanea</i> var. <i>Charleville</i> (R.W. Purdie +111)			
331.	17491 <i>Halgania cyanea</i> var. <i>cyanea</i>			
332.	6691 <i>Halgania integerrima</i>			
333.	6174 <i>Haloragis gossei</i>			
334.	-1509 <i>Haloragis</i> sp. <i>indet</i>			
335.	6180 <i>Haloragis trigonocarpa</i>			
336.	17725 <i>Hannafordia bissillii</i> subsp. <i>latifolia</i>			

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337.	3016 <i>Heliophila pusilla</i>	Y		
338.	6843 <i>Hemigenia brachyphylla</i>			
339.	6862 <i>Hemigenia pedunculata</i>			
340.	5122 <i>Hibbertia eatoniae</i>			
341.	5124 <i>Hibbertia exasperata</i>			
342.	5165 <i>Hibbertia rostellata</i>			
343.	5166 <i>Hibbertia rupicola</i>			
344.	5171 <i>Hibbertia spicata</i>			
345.	5815 <i>Homalocalyx thryptomenoides</i>			
346.	12742 <i>Hyalosperma demissum</i>			
347.	5221 <i>Hybanthus floribundus</i>			
348.	6239 <i>Hydrocotyle rugulosa</i>			
349.	8086 <i>Hypochaeris glabra</i> (Smooth Catsear)	Y		
350.	1503 <i>Hypoxis occidentalis</i>			
351.	-1512 <i>Hypoxis</i> sp. <i>indet</i>			Y
352.	8087 <i>Isoetopsis graminifolia</i> (Cushion Grass)			
353.	7397 <i>Isotoma petraea</i> (Rock Isotome)			
354.	14746 <i>Jacksonia jackson</i>		P1	Y
355.	4044 <i>Kennedia prostrata</i> (Scarlet Runner)			
356.	13729 <i>Keraudrenia velutina</i>			
357.	19892 <i>Keraudrenia velutina</i> subsp. <i>velutina</i>			
358.	5840 <i>Kunzea pulchella</i> (Granite Kunzea)			
359.	13284 <i>Lawrencella rosea</i>			
360.	19726 <i>Leiocarpa semicalva</i>			
361.	19727 <i>Leiocarpa semicalva</i> subsp. <i>semicalva</i>			
362.	12628 <i>Lemooria burkittii</i>			
363.	3033 <i>Lepidium oxytrichum</i>			
364.	31770 <i>Lepidosperma ferricola</i>		P1	
365.	31766 <i>Lepidosperma jacksonense</i>		P1	Y
366.	29138 <i>Lepidosperma</i> sp. Pigeon Rocks (H. Pringle 30237)			
367.	12687 <i>Leptospermum macgillivrayi</i>		P1	
368.	-4498 <i>Leptospermum</i> sp.			
369.	13260 <i>Leucochrysum fitzgiibbonii</i>			
370.	16049 <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)			
371.	20371 <i>Leucopogon</i> sp. Salt Lake (G.F. Craig 3069)			
372.	7670 <i>Levenhookia dubia</i> (Hairy Stylewort)			
373.	7676 <i>Levenhookia pusilla</i> (Midget Stylewort)			
374.	7403 <i>Lobelia heterophylla</i> (Wing-seeded Lobelia)			
375.	2533 <i>Maireana amoena</i>			
376.	2543 <i>Maireana eriosphaera</i>			
377.	2544 <i>Maireana georgei</i> (Satiny Bluebush)			
378.	2555 <i>Maireana pentatropis</i>			
379.	2556 <i>Maireana planifolia</i> (Low Bluebush)			
380.	2561 <i>Maireana radiata</i>			
381.	-11278 <i>Maireana</i> sp.			
382.	-1538 <i>Maireana</i> sp. <i>indet</i>			
383.	2567 <i>Maireana tomentosa</i> (Felt Bluebush)			
384.	11662 <i>Maireana tomentosa</i> subsp. <i>tomentosa</i>			
385.	2568 <i>Maireana trichoptera</i> (Downy Bluebush)			
386.	5865 <i>Malleostemon roseus</i>			
387.	16295 <i>Malleostemon</i> sp. Adelong (G.J. Keighery 11825)		P2	
388.	12949 <i>Marsdenia australis</i>			
389.	4077 <i>Medicago minima</i> (Small Burr Medic)	Y		
390.	5869 <i>Melaleuca acuminata</i>			
391.	5896 <i>Melaleuca cordata</i>			
392.	5908 <i>Melaleuca eleuterostachya</i>			
393.	5929 <i>Melaleuca leiocarpa</i>			
394.	9183 <i>Melaleuca nematophylla</i> (Wiry Honey-myrtle)			
395.	5958 <i>Melaleuca radula</i> (Graceful Honey-myrtle)			
396.	5984 <i>Melaleuca uncinata</i> (Broom Bush)			
397.	17643 <i>Microcorys</i> sp. Mt Gibson (S. Patrick 2098)			
398.	19787 <i>Micromyrtus monotaxis</i>			
399.	19406 <i>Micromyrtus racemosa</i> var. <i>racemosa</i>			
400.	8105 <i>Millotia myosotidifolia</i>			
401.	-1434 <i>Millotia</i> sp. <i>indet</i>			
402.	4089 <i>Mirbelia depressa</i>			
403.	4094 <i>Mirbelia microphylla</i>			
404.	17048 <i>Mirbelia</i> sp. Helena & Aurora (B.J. Lepschi 2003)		P3	
405.	-1374 <i>Mirbelia</i> sp. <i>indet</i>			
406.	490 <i>Monachather paradoxus</i>			

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407.	29418 <i>Monoculus monstrosus</i>	Y		
408.	6976 <i>Nicotiana occidentalis</i> (Native Tobacco)			
409.	6978 <i>Nicotiana rotundifolia</i> (Round-leaved Tobacco)			
410.	-1462 <i>Nicotiana</i> sp. <i>indet</i>			
411.	8134 <i>Olearia exiguiifolia</i> (Small-leaved Daisy Bush)			
412.	12734 <i>Olearia humilis</i>			
413.	8140 <i>Olearia muelleri</i> (Goldfields Daisy)			
414.	8145 <i>Olearia pimeleoides</i> (Pimelea Daisybush)			
415.	8151 <i>Olearia stuartii</i>			
416.	8152 <i>Olearia subspicata</i> (Spiked Daisy Bush)			
417.	12670 <i>Parietaria cardiostegia</i>			
418.	10975 <i>Paspalidium basicladum</i>			
419.	518 <i>Paspalidium clementii</i> (Clements Paspalidium)			
420.	543 <i>Pentaschistis airoides</i> (False Hairgrass)	Y		
421.	24022 <i>Pentaschistis airoides</i> subsp. <i>airoides</i>	Y		
422.	2259 <i>Persoonia coriacea</i> (Leathery-leaf Persoonia)			
423.	3674 <i>Petalostylis cassioides</i>			
424.	4497 <i>Phebalium canaliculatum</i>			
425.	4500 <i>Phebalium filifolium</i> (Slender Phebalium)			
426.	-1377 <i>Phebalium</i> sp. <i>indet</i>			
427.	4504 <i>Phebalium tuberculosum</i>			
428.	18539 <i>Philothea brucei</i>			
429.	18537 <i>Philothea brucei</i> subsp. <i>brucei</i>			
430.	16833 <i>Philothea coateana</i>		P3	
431.	18519 <i>Philothea coccinea</i>			
432.	18385 <i>Philothea deserti</i> subsp. <i>deserti</i>			
433.	18506 <i>Philothea tomentella</i>			
434.	16177 <i>Phyllangium paradoxum</i>			
435.	4142 <i>Phyllota luehmannii</i>			
436.	5245 <i>Pimelea forrestiana</i>			
437.	5256 <i>Pimelea microcephala</i> (Shrubby Riceflower)			
438.	11185 <i>Pimelea microcephala</i> subsp. <i>microcephala</i>			
439.	12104 <i>Pimelea spiculigera</i> var. <i>thesioides</i>			
440.	19744 <i>Pittosporum angustifolium</i>			
441.	7299 <i>Plantago debilis</i>			
442.	65 <i>Pleurosorus rutifolius</i> (Blanket Fern)			
443.	-11603 <i>Pleurosorus</i> sp.			
444.	573 <i>Poa drummondiana</i> (Knotted Poa)			
445.	8172 <i>Podolepis canescens</i>			
446.	8173 <i>Podolepis capillaris</i> (Wiry Podolepis)			
447.	8177 <i>Podolepis lessonii</i>			
448.	8181 <i>Podolepis tepperi</i>			
449.	8182 <i>Podotroche angustifolia</i> (Sticky Longheads)			
450.	8184 <i>Podotroche gnaphalioides</i> (Golden Long-heads)			
451.	12706 <i>Prostanthera althoferi</i>			
452.	-5335 <i>Prostanthera althoferi</i> / <i>campbellii</i>			
453.	15822 <i>Prostanthera althoferi</i> subsp. <i>althoferi</i>			
454.	-1391 <i>Prostanthera althoferi</i> subsp. <i>althoferi</i> x <i>campbellii</i>			
455.	6912 <i>Prostanthera campbellii</i>			
456.	6916 <i>Prostanthera grylloana</i>			
457.	6919 <i>Prostanthera magnifica</i> (Magnificent Prostanthera)			
458.	11986 <i>Prostanthera semiteres</i> subsp. <i>intricata</i>			
459.	-1387 <i>Prostanthera</i> sp. <i>indet</i>			Y
460.	16370 <i>Psammomoya grandiflora</i>			
461.	18390 <i>Pseudactinia</i> sp. <i>Bungalbin Hill</i> (F.H. & M.P. Mollemans 3069)		P3	
462.	18155 <i>Psydrax suaveolens</i>			
463.	-1471 <i>Pterostylis aff nana</i>			
464.	10778 <i>Pterostylis picta</i>			
465.	19327 <i>Pterostylis</i> sp. <i>dainty brown</i> (N. Gibson & M. Lyons 3690)			
466.	18657 <i>Pterostylis</i> sp. <i>inland</i> (A.C. Beaglehole 11880)			
467.	10897 <i>Pterostylis spathulata</i>			
468.	2690 <i>Ptilotus aevoides</i>			
469.	2707 <i>Ptilotus carlsonii</i>			
470.	2717 <i>Ptilotus divaricatus</i> (Climbing Mulla Mulla)			
471.	11251 <i>Ptilotus divaricatus</i> var. <i>divaricatus</i>			
472.	2718 <i>Ptilotus drummondii</i> (Narrowleaf Mulla Mulla)			
473.	2721 <i>Ptilotus exaltatus</i> (Tall Mulla Mulla)			
474.	11531 <i>Ptilotus exaltatus</i> var. <i>villosus</i>			
475.	2727 <i>Ptilotus gaudichaudii</i>			
476.	11577 <i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
477.	2730 <i>Ptilotus helichrysoides</i>			
478.	2731 <i>Ptilotus helipteroides</i> (Hairy Mulla Mulla)			
479.	17962 <i>Ptilotus humilis</i> subsp. <i>parviflorus</i>			
480.	2747 <i>Ptilotus obovatus</i> (Cotton Bush)			
481.	15855 <i>Ptilotus schwartzii</i> var. <i>schwartzii</i>			
482.	2581 <i>Rhagodia drummondii</i>			
483.	13306 <i>Rhodanthe battii</i>			
484.	13241 <i>Rhodanthe chlorocephala</i> subsp. <i>rosea</i>			
485.	13300 <i>Rhodanthe citrina</i>			
486.	13305 <i>Rhodanthe heterantha</i>			
487.	13294 <i>Rhodanthe laevis</i>			
488.	13234 <i>Rhodanthe manglesii</i>			
489.	13238 <i>Rhodanthe maryonii</i>			
490.	13248 <i>Rhodanthe oppositifolia</i>			
491.	13249 <i>Rhodanthe oppositifolia</i> subsp. <i>oppositifolia</i>			
492.	13296 <i>Rhodanthe polycephala</i>			
493.	13252 <i>Rhodanthe pygmaea</i>			
494.	13253 <i>Rhodanthe rubella</i>			
495.	-1436 <i>Rhodanthe</i> sp. <i>indet</i>			
496.	13254 <i>Rhodanthe stricta</i>			
497.	6599 <i>Rhyncharhena linearis</i> (Bush Bean)			
498.	14225 <i>Ricinocarpos brevis</i>		T	
499.	5063 <i>Rulingia luteiflora</i> (Yellow-flowered Rulingia)			
500.	18599 <i>Salsola tragus</i>			
501.	2356 <i>Santalum acuminatum</i> (Quandong)			
502.	2359 <i>Santalum spicatum</i> (Sandalwood)			
503.	13008 <i>Sarcostemma viminale</i>			
504.	7639 <i>Scaevola restiacea</i>			
505.	12586 <i>Scaevola spicigera</i>			
506.	7644 <i>Scaevola spinescens</i> (Currant Bush)			
507.	8200 <i>Schoenia cassiniana</i> (Schoenia)			
508.	2606 <i>Sclerolaena cuneata</i> (Yellow Bindii)			
509.	2609 <i>Sclerolaena diacantha</i> (Grey Copperburr)			
510.	2610 <i>Sclerolaena drummondii</i>			
511.	2615 <i>Sclerolaena fusiformis</i>			
512.	2619 <i>Sclerolaena lanicuspis</i> (Spinach Burr)			
513.	-1551 <i>Sclerolaena</i> sp. <i>indet</i>			
514.	8206 <i>Senecio glomeratus</i> (Cluster-headed Fireweed)			
515.	8207 <i>Senecio glossanthus</i> (Slender Groundsel)			
516.	25881 <i>Senecio lacustrinus</i>			
517.	20161 <i>Senecio pinnatifolius</i>			
518.	8217 <i>Senecio quadridentatus</i>			
519.	17645 <i>Senna artemisioides</i>			
520.	12276 <i>Senna artemisioides</i> subsp. <i>filifolia</i>			
521.	17558 <i>Senna artemisioides</i> subsp. <i>x artemisioides</i>			
522.	-1328 <i>Senna glutinosa</i> subsp. <i>chatelainiana x charlesiana</i>			
523.	16378 <i>Senna pleurocarpa</i>			
524.	12315 <i>Senna pleurocarpa</i> var. <i>angustifolia</i>			
525.	12314 <i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>			
526.	-1317 <i>Senna</i> sp. <i>indet</i>			
527.	4970 <i>Sida calyxhymenia</i> (Tall Sida)			
528.	31759 <i>Sida ectogama</i>			
529.	16930 <i>Sida excedentifolia</i>			
530.	4985 <i>Sida petrophila</i>			
531.	31854 <i>Sida</i> sp. <i>Excedentifolia</i> (J.L. Egan 1925)			
532.	31857 <i>Sida</i> sp. <i>Golden calyces glabrous</i> (H.N. Foote 32)			
533.	19712 <i>Sida</i> sp. <i>dark green fruits</i> (S. van Leeuwen 2260)			
534.	-1394 <i>Sida</i> sp. <i>indet</i>			
535.	16924 <i>Sida spodochroma</i>			
536.	2909 <i>Silene gallica</i> (French Catchfly)	Y		
537.	-1559 <i>Silene</i> sp. <i>indet</i>			Y
538.	7006 <i>Solanum ellipticum</i> (Potato Bush)			
539.	7013 <i>Solanum hoplopetalum</i> (Thorny Solanum)			
540.	7018 <i>Solanum lasiophyllum</i> (Flannel Bush)			
541.	7023 <i>Solanum nummularium</i> (Money-leaved Solanum)			
542.	7028 <i>Solanum petrophilum</i> (Rock Nightshade)			
543.	-1455 <i>Solanum</i> sp. <i>indet</i>			
544.	8230 <i>Sonchus asper</i> (Rough Sowthistle)	Y		
545.	8231 <i>Sonchus oleraceus</i> (Common Sowthistle)	Y		
546.	12647 <i>Sondottia connata</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
547.	20767 <i>Spartothamnella</i> sp. <i>Helena & Aurora Range (P.G. Armstrong 155-109)</i>		P3	
548.	6827 <i>Spartothamnella</i> <i>teucriflora</i>			
549.	-1454 <i>Spyridium</i> sp. <i>indet</i>			Y
550.	4733 <i>Stackhousia</i> <i>monogyna</i>			
551.	2917 <i>Stellaria</i> <i>filiformis (Thread Spurry)</i>			
552.	14797 <i>Stenanthemum</i> <i>newbeyi</i>		P3	
553.	16200 <i>Stenanthemum</i> <i>stipulosum</i>			
554.	3076 <i>Stenopetalum</i> <i>filifolium</i>			
555.	3077 <i>Stenopetalum</i> <i>lineare (Narrow Thread Petal)</i>			
556.	30212 <i>Stenopetalum</i> <i>lineare</i> var. <i>lineare</i>			
557.	-1492 <i>Stenopetalum</i> sp. <i>indet</i>			
558.	7719 <i>Stylidium</i> <i>ecorne (Foot Triggerplant)</i>			
559.	7740 <i>Stylidium</i> <i>induratum (Desert Triggerplant)</i>			
560.	33018 <i>Styphelia</i> sp. <i>Bullfinch (M. Hislop 3574)</i>		P3	
561.	4221 <i>Swainsona</i> <i>colutoides (Bladder Vetch)</i>			
562.	4231 <i>Swainsona</i> <i>kingii</i>			
563.	31918 <i>Tecticornia</i> <i>doleiformis (Sapphire)</i>			
564.	33216 <i>Tecticornia</i> sp. <i>Dennys Crossing (K.A. Shepherd & J. English KS 552)</i>			
565.	31717 <i>Tecticornia</i> <i>undulata</i>			
566.	2822 <i>Tetragonia</i> <i>eremaea</i>			
567.	16287 <i>Tetragonia</i> <i>moorei</i>			
568.	4534 <i>Tetradthea</i> <i>harperi (Jackson Tetradthea)</i>		T	Y
569.	13649 <i>Tetradthea</i> <i>paynterae</i>			Y
570.	23987 <i>Tetradthea</i> <i>paynterae</i> subsp. <i>cremnobata</i>		T	Y
571.	23988 <i>Tetradthea</i> <i>paynterae</i> subsp. <i>paynterae</i>		T	Y
572.	20732 <i>Thelymitra</i> <i>petrophila</i>			
573.	-1469 <i>Thelymitra</i> sp. <i>indet</i>			
574.	6050 <i>Thryptomene</i> <i>australis (Hook-leaf Thryptomene)</i>			
575.	19698 <i>Thryptomene</i> <i>australis</i> subsp. <i>australis</i>			
576.	6058 <i>Thryptomene</i> <i>kochii</i>			
577.	6068 <i>Thryptomene</i> <i>urceolaris</i>			
578.	-1485 <i>Thysanotus</i> cf. <i>manglesianus</i>			
579.	1338 <i>Thysanotus</i> <i>manglesianus (Fringed Lily)</i>			
580.	1343 <i>Thysanotus</i> <i>patersonii</i>			
581.	-1484 <i>Thysanotus</i> sp. <i>indet</i>			
582.	-1487 <i>Thysanotus</i> sp. <i>manglesianus/patersonii</i> complex			
583.	1352 <i>Thysanotus</i> <i>speckii</i>			
584.	6268 <i>Trachymene</i> <i>cyanopetala</i>			
585.	6279 <i>Trachymene</i> <i>ornata (Spongefruit)</i>			
586.	6280 <i>Trachymene</i> <i>pilosa (Native Parsnip)</i>			
587.	-1428 <i>Trachymene</i> sp. <i>indet</i>			
588.	12652 <i>Trichanthodium</i> <i>skirrophorum</i>			
589.	17874 <i>Triodia</i> <i>rigidissima</i>			
590.	-3905 <i>Triodia</i> sp.			
591.	13041 <i>Triodia</i> <i>tomentosa</i>			
592.	705 <i>Tripogon</i> <i>loliiformis (Five Minute Grass)</i>			
593.	16986 <i>Trymalium</i> <i>myrtillus</i> subsp. <i>myrtillus</i>			
594.	7656 <i>Velleia</i> <i>cynopotamica</i>			
595.	7664 <i>Velleia</i> <i>rosea (Pink Velleia)</i>			
596.	6087 <i>Verticordia</i> <i>helmsii</i>			
597.	8268 <i>Vittadinia</i> <i>humerala</i>			
598.	-9564 <i>Vittadinia</i> sp.			
599.	-1439 <i>Vittadinia</i> sp. <i>Indet</i>			Y
600.	11018 <i>Vulpia</i> <i>muralis</i>	Y		
601.	724 <i>Vulpia</i> <i>myuros (Rat's Tail Fescue)</i>	Y		
602.	33101 <i>Vulpia</i> <i>myuros</i> forma <i>myuros</i>	Y		
603.	7386 <i>Wahlenbergia</i> <i>gracilentata (Annual Bluebell)</i>			
604.	-1520 <i>Wahlenbergia</i> sp. <i>indet</i>			
605.	7393 <i>Wahlenbergia</i> <i>tumidifructa</i>			
606.	8275 <i>Waitzia</i> <i>acuminata (Orange Immortelle)</i>			
607.	13331 <i>Waitzia</i> <i>acuminata</i> var. <i>acuminata</i>			
608.	6938 <i>Westringia</i> <i>cephalantha</i>			
609.	9247 <i>Westringia</i> <i>rigida (Stiff Westringia)</i>			
610.	6942 <i>Wrixonia</i> <i>prostantheroides</i>			
611.	1391 <i>Wurmbea</i> <i>densiflora</i>			
612.	1248 <i>Xerolirion</i> <i>divaricata (Basil's Asparagus)</i>			
613.	4389 <i>Zygophyllum</i> <i>eremaeum</i>			
614.	4390 <i>Zygophyllum</i> <i>fruticosum (Shrubby Twinleaf)</i>			
615.	4392 <i>Zygophyllum</i> <i>iodocarpum</i>			
616.	4394 <i>Zygophyllum</i> <i>ovatum (Dwarf Twinleaf)</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
617.	-1556 <i>Zygophyllum sp. indet</i>			

Conservation Codes

- T - Rare or likely to become extinct
- X - Presumed extinct
- IA - Protected under international agreement
- S - Other specially protected fauna
- 1 - Priority 1
- 2 - Priority 2
- 3 - Priority 3
- 4 - Priority 4
- 5 - Priority 5

¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholly contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.

Appendix 3

Vegetation Structural Classification and Condition Ranking



Vegetation Structural Classes*

Stratum	Canopy Cover (%)				
	70-100%	30-70%	10-30%	2-10%	<2%
Trees over 30 m	Tall closed forest	Tall open forest	Tall woodland	Tall open woodland	Scattered tall trees
Trees 10-30 m	Closed forest	Open forest	Woodland	Open woodland	Scattered trees
Trees under 10 m	Low closed forest	Low open forest	Low woodland	Low open woodland	Scattered low trees
Tree Mallee	Closed tree mallee	Tree mallee	Open tree mallee	Very open tree mallee	Scattered tree mallee
Shrub Mallee	Closed shrub mallee	Shrub mallee	Open shrub mallee	Very open shrub mallee	Scattered shrub mallee
Shrubs over 2 m	Tall closed scrub	Tall open scrub	Tall shrubland	Tall open shrubland	Scattered tall shrubs
Shrubs 1-2 m	Closed heath	Open heath	Shrubland	Open shrubland	Scattered shrubs
Shrubs under 1 m	Low closed heath	Low open heath	Low shrubland	Low open shrubland	Scattered low shrubs
Hummock grasses	Closed hummock grassland	Hummock grassland	Open hummock grassland	Very open hummock grassland	Scattered hummock grasses
Grasses, Sedges, Herbs	Closed tussock grassland / bunch grassland / sedgeland / herbland	Tussock grassland / bunch grassland / sedgeland / herbland	Open tussock grassland / bunch grassland / sedgeland / herbland	Very open tussock grassland / bunch grassland / sedgeland / herbland	Scattered tussock grasses / bunch grasses / sedges / herbs

- Based on Keighery (1994), adapted from Muir (1977), and Aplin's (1979) modification of the vegetation classification system of Specht (1970):
 - Keighery B.J. (1994). *Bushland Plant Survey: A Guide for Community Surveys*. Wildflower Society of Western Australia, Perth WA;
 - Aplin T.E.H. (1979). The Flora. Chapter 3 In O'Brien, B.J. (ed.) (1979). *Environment and Science*. University of Western Australia Press;
 - Muir B.G. (1977). Biological Survey of the Western Australian Wheatbelt. Part II: Vegetation and habitat of Bendering Reserve. *Records of the Western Australian Museum, Suppl. No. 3*;
 - Specht R.L. (1970). Vegetation. In *The Australian Environment*. 4th edn (Ed. G.W. Leeper). Melbourne.

Vegetation Condition Scale*

P = Pristine Pristine or nearly so; no obvious signs of disturbance.
E = Excellent Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species.
VG = Very Good Vegetation structure altered, obvious signs of disturbance. For example, disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.
G = Good Vegetation structure significantly altered by very obvious signs of multiple disturbance. Retains basic vegetation structure or ability to regenerate it. For example, disturbance to vegetation structure caused by very frequent fires, the presence of some very aggressive weeds at high density, partial clearing, dieback and grazing.
D = Degraded Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. For example, disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.
CD = Completely Degraded The structure of the vegetation is no longer intact and the area is completely or almost completely without native species. These areas are often described as 'parkland cleared' with the flora comprising weed or crop species with isolated native trees or shrubs.

* Based on Keighery B.J. (1994). *Bushland Plant Survey: A Guide for Community Surveys*. Wildflower Society of Western Australia, Perth WA.

Appendix 4

Raw Data from Quadrats and Relevés



Deception Deposit Flora Site: DEC01**Described by:** PCPL **Date:** 22/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 719128 **mE** 6695048 **mN****Habitat:** Mid to lower slope of rocky outcrop; N-facing, middle third of landform element**Soil:** Red-brown loam with continuous coarse fragments on surface, very abundant (>90%) coarse gravel/large pebbles to boulders, sub-rounded and sub-angular; soil is loose**Rock Type:** ?Ironstone outcropping; rockland (>50% rock)**Vegetation:** *Acacia* ? *caesaneura* (narrow phyllode variant) scattered tall shrubs over *Ptilotus obovatus* var. *obovatus* open low heath**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Altitude: 498m. Slope ~40m length, 30m distance to highest point. 0.1% leaf litter, 55-60% bare ground**SPECIES LIST:**

	Cover	Height
<i>Abutilon cryptopetalum</i>	0.1%	20cm
<i>Acacia</i> ? <i>caesaneura</i> (narrow phyllode variant)	1%	320cm
<i>Acacia tetragonophylla</i>	0.1%	160cm
<i>Austrostipa scabra</i>	0.1%	40cm
<i>Calotis hispidula</i>	0.1%	5cm
<i>Cheilanthes brownii</i>	0.1%	10cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1%	10cm
<i>Dodonaea rigida</i>	1%	130cm
<i>Enneapogon caerulescens</i>	0.1%	30cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	60cm
<i>Eremophila metallicorum</i>	0.1%	50cm
<i>Erodium cygnorum</i>	0.1%	1-5cm
<i>Hakea recurva</i> subsp. <i>recurva</i>	1%	200cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	1%	160cm
<i>Plantago debilis</i>	0.1%	1cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	45%	50cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	30cm
<i>Sida</i> sp.	0.1%	5cm

Deception Deposit Flora Site: DEC02**Described by:** MMMST **Date:** 22/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 719121 **mE** 6695213 **mN****Habitat:** Flat plain, gently sloping N from ridge (to the south); bottom 3rd of landform element**Soil:** Orange silty loam with discontinuous ironstone coarse fragments on the surface, many (20-50%) fine gravel/small pebbles to coarse gravel/large pebbles, angular to sub-rounded; surface crust**Rock Type:** No bedrock exposed**Vegetation:** *Acacia* ? *caesaneura* (narrow phyllode variant), *A. incurvaneura*, *A. ramulosa* var. *ramulosa* tall shrubland over *Philothea brucei* subsp. *brucei*, (*Dodonaea rigida*, *Scaevola spinescens* (spiny, fine leaf)) open shrubland over *Waitzia acuminata* var. *acuminata* scattered herbs**Veg Condition:** Pristine - some rabbit droppings present**Fire Age:** Very long unburnt**Notes:** 150m distance to highest point. 50% leaf litter cover, 40% bare ground. 2-5% cryptogam cover, 5-10% dead timber on ground, 1% dead standing timber, 35% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia</i> ? <i>caesaneura</i> (narrow phyllode variant)	11%	350m
<i>Acacia incurvaneura</i>	11%	300cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	8%	300cm
<i>Acacia tetragonophylla</i>	0.1%	160cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	0.1%	50cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	25cm
<i>Austrostipa elegantissima</i>	0.1%	40cm
<i>Austrostipa scabra</i>	0.1%	50cm
<i>Brachychiton gregorii</i>	0.1%	230cm
<i>Cheilanthes adiantoides</i>	0.1%	1cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1%	20cm
<i>Cryptandra connata</i>	0.1%	45cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	50cm
<i>Dodonaea rigida</i>	1%	210cm
<i>Eremophila metallicorum</i>	0.1%	25cm
<i>Gilruthia osbornei</i>	0.1%	2.5cm
<i>Goodenia occidentalis</i>	0.1%	7cm
<i>Goodenia pinnatifida</i>	0.1%	20cm
<i>Lobelia</i> sp.	0.1%	10cm
<i>Monachather paradoxus</i>	0.1%	20cm
<i>Olearia humilis</i>	0.1%	50cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	7%	170cm
<i>Podolepis canescens</i>	0.1%	10cm
<i>Ptilotus drummondii</i>	0.1%	20cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	40cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	120cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	130cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	1%	140cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	4cm

<i>Stenopetalum filifolium</i>	0.1%	25cm
<i>Thysanotus manglesianus</i>	0.1%	30cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	2%	15cm

Deception Deposit Flora Site: DEC03**Described by:** PCPL **Date:** 22/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 **718917 mE 6695242 mN****Habitat:** Flat plain; gently sloping to N**Soil:** Red-brown loam with discontinuous ironstone coarse fragments on the surface, abundant (50-90%) medium gravel/medium pebbles to coarse gravel/large pebbles, rounded and sub-angular; surface crust**Rock Type:** No bedrock exposed**Vegetation:** *Eucalyptus corrugata*, (*E. longissima*) open tree mallee over *Acacia ramulosa* var. *ramulosa* scattered tall shrubs over *Ptilotus obovatus* var. *obovatus* scattered low shrubs**Veg Condition:** Excellent - track disturbance and cattle droppings**Fire Age:** Very long unburnt**Notes:** Altitude: 486m. 20% leaf litter cover, 80% cover bare ground**SPECIES LIST:**

	Cover	Height
<i>Acacia ? incurvaneura</i>	1%	400cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	1.5%	200-300cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	0.1%	160cm
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	0.1%	10cm
<i>Austrodanthonia ? setacea</i>	0.1%	20cm
<i>Austrostipa elegantissima</i>	0.1%	50cm
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.1%	10cm
<i>Eremophila clarkei</i>	0.1%	10cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	160cm
<i>Eremophila granitica</i>	0.1%	60cm
<i>Eucalyptus corrugata</i>	10%	2000cm
<i>Eucalyptus longissima</i>	1%	20cm
<i>Exocarpos aphyllus</i>	0.1%	130cm
<i>Maireana georgei</i>	0.1%	10cm
<i>Maireana</i> sp.	0.1%	20cm
<i>Marsdenia australis</i>	0.1%	climber
<i>Monachather paradoxus</i>	0.1%	20cm
<i>Olearia muelleri</i>	0.5%	80cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.5%	40cm
<i>Rhagodia ? drummondii</i>	0.1%	110cm
<i>Sclerolaena diacantha</i>	0.1%	10cm
<i>Sclerolaena fusiformis</i>	0.1%	10cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	160cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	10cm
<i>Solanum nummularium</i>	0.1%	20cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm
<i>Zygophyllum aurantiacum</i>	0.1%	20cm

Deception Deposit Flora Site: DEC04**Described by:** MMMST **Date:** 22/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 **718669 mE 6695162 mN****Habitat:** Broad flat plain, bottom 3rd of landform element; sloping gently down from ridge to east**Soil:** Orange-brown loam with discontinuous coarse fragments on surface, abundant (50-90%) fine gravel/small pebbles to stones, sub-rounded to sub-angular; surface crust**Vegetation:** *Eucalyptus loxophleba* subsp. *lissophloia*, (*E. salubris*) open tree mallee over *Eremophila scoparia*, *Acacia ? caesaneura* (narrow phyllode variant) scattered tall shrubs over *Atriplex nummularia* subsp. *spathulata* shrubland over *Atriplex vesicaria*, *Sclerolaena fusiformis* scattered low shrubs**Veg Condition:** Pristine - signs of ?horses but no disturbance visible**Fire Age:** Very long unburnt**Notes:** 10% leaf litter cover, ~80% bare ground. <1% cryptogam cover/ dead wood on ground/ dead standing timber, 20-25% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia ? caesaneura</i> (narrow phyllode variant)	0.1%	250cm
<i>Acacia tetragonophylla</i>	0.1%	25-250cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	0.5%	220-350cm
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	15%	to 170cm
<i>Atriplex stipitata</i>	0.1%	45cm
<i>Atriplex vesicaria</i>	2%	50cm
<i>Austrodanthonia ? setacea</i>	0.1%	50cm
<i>Austrostipa elegantissima</i>	0.1%	40-50cm
<i>Comesperma integerrimum</i>	0.1%	climbing
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	100cm
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.1%	120cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	55-160cm
<i>Eremophila metallicorum</i>	0.1%	90cm
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	0.1%	80cm
<i>Eremophila scoparia</i>	0.1%	220cm

<i>Erymophyllum ramosum</i> subsp. <i>ramosum</i>	0.1%	6cm
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	12%	1000cm
<i>Eucalyptus salubris</i>	1%	to 800cm
<i>Exocarpos aphyllus</i>	0.1%	80cm
<i>Gunniopsis</i> sp.	0.1%	2cm
<i>Maireana georgei</i>	0.1%	40cm
<i>Maireana trichoptera</i>	0.1%	25cm
<i>Maireana triptera</i>	0.1%	50cm
<i>Olearia muelleri</i>	0.1%	70cm
<i>Psydrax suaveolens</i>	0.1%	140cm
<i>Ptilotus exaltatus</i> var. <i>villosus</i>	0.1%	45cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	40cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	60cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	40cm
<i>Sclerolaena diacantha</i>	0.1%	10cm
<i>Sclerolaena fusiformis</i>	0.1%	8cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	50cm
<i>Solanum nummularium</i>	0.1%	50cm

Deception Deposit Flora Site: DEC05**Described by:** PCPL **Date:** 22/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 **719861 mE 6694114 mN****Habitat:** Flat plain, gently sloping south**Soil:** Red-brown loam with discontinuous ironstone coarse fragments on the surface, many (20-50%) medium gravel/medium pebbles to coarse gravel/large pebbles, sub-rounded to angular; surface**Rock Type:** No bedrock exposed**Vegetation:** *Acacia incurvaneura*, (*A.* ? *caesaneura* (narrow phyllode variant)) tall shrubland to tall open scrub over *Senna artemisioides* subsp. *filifolia* scattered shrubs over *Waitzia acuminata* var. *acuminata* scattered herbs**Veg Condition:** Excellent - some cattle disturbance**Fire Age:** Very long unburnt**Notes:** Altitude: 470m. 15% leaf litter cover, 85% bare ground**SPECIES LIST:**

	Cover	Height
<i>Acacia</i> ? <i>caesaneura</i> (narrow phyllode variant)	0.5%	700cm
<i>Acacia incurvaneura</i>	30%	1000cm
<i>Acacia obtecta</i>	0.5%	260cm
<i>Acacia tetragonophylla</i>	0.1%	200cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	30cm
<i>Austrostipa elegantissima</i>	0.1%	60cm
<i>Austrostipa scabra</i>	0.1%	40cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1%	20cm
<i>Cryptandra connata</i>	0.1%	50cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	40cm
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.1%	40cm
<i>Eremophila eriocalyx</i>	0.1%	30cm
<i>Goodenia occidentalis</i>	0.1%	10cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.5%	170cm
<i>Sida</i> sp.	0.1%	5cm
<i>Stenopetalum filifolium</i>	0.1%	30cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.5%	10cm

Deception Deposit Flora Site: DEC06**Described by:** MMMST **Date:** 22/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 **719835 mE 6694482 mN****Habitat:** Flat plain, bottom 3rd of landform element; very gently sloping to S**Soil:** Orange silty loam with discontinuous ironstone (occasionally quartz) coarse fragments on surface, abundant (50-90%) fine gravel/small pebbles to coarse gravel/large pebbles, subrounded to subangular; surface crust**Rock Type:** No bedrock exposed**Vegetation:** *Eucalyptus corrugata* low open woodland over *Acacia* ? *caesaneura* (narrow phyllode variant), *A. incurvaneura*, *A. sibirica* tall open shrubland over *Senna artemisioides* subsp. *filifolia* scattered shrubs**Veg Condition:** Pristine - old track running through area, some grazing by stock**Fire Age:** Very long unburnt**Notes:** 12% leaf litter cover, 95% bare ground. 0% cryptogam cover, <1% dead wood on ground, <1% dead standing timber, 12% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia</i> ? <i>caesaneura</i> (narrow phyllode variant)	5%	250-270cm
<i>Acacia incurvaneura</i>	2%	200cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	0.1%	280cm
<i>Acacia sibirica</i>	1%	220cm
<i>Acacia tetragonophylla</i>	0.1%	35cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	0.1%	200cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	15cm
<i>Austrostipa elegantissima</i>	0.1%	40cm
<i>Austrostipa</i> ? <i>scabra</i>	0.1%	20cm

<i>Calocephalus multiflorus</i>	0.1%	3cm
<i>Comesperma integerrimum</i>	0.1%	climbing
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	35cm
<i>Eremophila clarkei</i>	0.1%	160cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	50cm
<i>Eremophila eriocalyx</i>	0.1%	40cm
<i>Eucalyptus corrugata</i>	6%	1000cm
<i>Gilruthia osbornei</i>	0.1%	4cm
<i>Homalocalyx thryptomenoides</i>	0.1%	35cm
<i>Maireana georgei</i>	0.1%	40cm
<i>Monachather paradoxus</i>	0.1%	25cm
<i>Olearia humilis</i>	0.1%	35cm
<i>Olearia muelleri</i>	0.1%	45cm
<i>Philotheca brucei</i> subsp. <i>brucei</i>	0.1%	160cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	30cm
<i>Rhyncharrhena linearis</i>	0.1%	60cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	0.1%	50cm
<i>Sclerolaena diacantha</i>	0.1%	10cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1%	110cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	15cm
<i>Solanum nummularium</i>	0.1%	40cm
<i>Thysanotus manglesianus</i>	0.1%	climbing

Deception Deposit Flora Site: DEC07**Described by:** PCPL **Date:** 23/09/2010 **Type:** Q50x50m**MGA Zone:** 50 **718542 mE 6695665 mN****Habitat:** Flat plain**Soil:** Red-brown loam with continuous coarse fragments on surface, abundant (50-90%) fine gravel/small pebbles to coarse gravel/large pebbles, angular to subrounded; soil loose, soft**Rock Type:** No bedrock exposed**Vegetation:** *Eucalyptus salubris* woodland over *Eremophila scoparia* tall open shrubland over *Atriplex nummularia* subsp. *spathulata* scattered shrubs over *A. stipitata* scattered low shrubs**Veg Condition:** Pristine - cow and rabbit droppings present, but no sign of impact on vegetation**Fire Age:** Very long unburnt**Notes:** Altitude: 479m. 5% leaf litter cover, 80% bare ground

SPECIES LIST:	Cover	Height
<i>Acacia andrewsii</i>	0.1%	60cm
<i>Acacia erinacea</i>	0.1%	60cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	0.1%	170cm
<i>Alyxia buxifolia</i>	0.1%	200cm
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	1%	160cm
<i>Atriplex stipitata</i>	0.5%	40cm
<i>Austrostipa elegantissima</i>	0.1%	60cm
<i>Casuarina pauper</i>	0.1%	20cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	50cm
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	0.1%	40cm
<i>Eremophila scoparia</i>	3%	230cm
<i>Eriochiton sclerolaenoides</i>	0.1%	10cm
<i>Erodium cygnorum</i>	0.1%	2cm
<i>Erymophyllum ramosum</i> subsp. <i>ramosum</i>	0.1%	12cm
<i>Eucalyptus salubris</i>	25%	1000cm
<i>Exocarpos aphyllus</i>	0.1%	50cm
<i>Grevillea acuarua</i>	0.1%	50cm
<i>Maireana georgei</i>	0.1%	40cm
<i>Olearia muelleri</i>	0.1%	40cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	30cm
<i>Santalum spicatum</i>	0.1%	230cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	50cm
<i>Sclerolaena diacantha</i>	0.1%	15cm
<i>Sclerolaena drummondii</i>	0.1%	10cm
<i>Sclerolaena fusiformis</i>	0.1%	10cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	110cm

Deception Deposit Flora Site: DEC08**Described by:** MMMST **Date:** 23/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 **718595 mE 6695788 mN****Habitat:** Mid-slope of low stony ridge, middle 3rd of landform element; gentle slope to the SE**Soil:** Orange silty loam with continuous ironstone coarse fragments on the surface, medium gravel/medium pebbles to cobbles, subrounded and subangular tabular; occasional calcareous pebble; soil hard-setting and with surface crust**Vegetation:** *Casuarina pauper* low open woodland over *Acacia* sp. narrow phyllode scattered tall shrubs over *Bossiaea walkeri* open shrubland over *Grevillea acuarua*, *Scaevola spinescens* (broad leaf, non-spiny form), (*Acacia andrewsii*) low open shrubland**Veg Condition:** Pristine - signs (scats) of rabbits and horses, no evidence of impact on vegetation**Fire Age:** Very long unburnt

Notes: 1-2% leaf litter cover, ~80% bare ground. <1% cryptogam cover/ dead wood on ground/ dead standing timber, 20% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia andrewsii</i>	1%	60cm
<i>Acacia</i> ? <i>caesaneura</i> (narrow phyllode variant)	0.1%	500cm
<i>Acacia obtecta</i>	0.1%	150cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	0.1%	140cm
<i>Acacia tetragonophylla</i>	0.1%	160cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	2%	300cm
<i>Alyxia buxifolia</i>	0.1%	160cm
<i>Amyema preissii</i>	0.1%	40cm
<i>Austrostipa elegantissima</i>	0.1%	50cm
<i>Austrostipa scabra</i>	0.1%	40cm
<i>Bossiaea walkeri</i>	3%	140cm
<i>Casuarina pauper</i>	5%	900cm
<i>Comesperma integerrimum</i>	0.1%	80cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	80cm
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	0.1%	170cm
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	0.1%	240cm
<i>Eremophila scoparia</i>	0.1%	220cm
<i>Exocarpos aphyllus</i>	0.1%	180cm
<i>Gilruthia osbornei</i>	0.1%	2cm
<i>Grevillea acuaria</i>	5%	80cm
<i>Hakea recurva</i> subsp. <i>recurva</i>	0.1%	210cm
<i>Maireana georgei</i>	0.1%	20cm
<i>Maireana trichoptera</i>	0.1%	20cm
<i>Olearia muelleri</i>	0.1%	50cm
<i>Olearia pimeleoides</i>	0.1%	40cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	30cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	40cm
<i>Santalum spicatum</i>	0.1%	300cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	5%	80cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	120cm
<i>Stenopetalum filifolium</i>		

Deception Deposit Flora Site: DEC09

Described by: PCPL **Date:** 23/09/2010 **Type:** Quadrat 20x20m

MGA Zone: 50 719226 mE 6695810 mN

Habitat: Small breakaway on ridge; top and middle 3rd of landform element

Soil: Brown loam with ~continuous coarse fragments on the surface, abundant (50-90%) fine gravel/small pebbles to stones, subrounded to angular; loose soil

Rock Type: ? Laterite; very rocky (20-50%)

Vegetation: *Acacia cockertoniana*, *Melaleuca leiocarpa*, *M. hamata* tall open scrub over *Philothea brucei* subsp. *brucei*, *Eremophila latrobei* subsp. *latrobei* open shrubland

Veg Condition: Pristine

Fire Age: Very long unburnt

Notes: 5% leaf litter cover, 75% bare ground

SPECIES LIST:	Cover	Height
<i>Acacia cockertoniana</i>	30%	1000cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	0.1%	180cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	0.1%	150cm
<i>Alyxia buxifolia</i>	0.1%	220cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	15cm
<i>Dodonaea rigida</i>	0.1%	40cm
<i>Eremophila clarkei</i>	0.1%	100cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	2%	180cm
<i>Eremophila metallicorum</i>	0.1%	60cm
<i>Exocarpos aphyllus</i>	0.1%	200cm
<i>Melaleuca hamata</i>	10%	300cm
<i>Melaleuca leiocarpa</i>	12%	200cm
<i>Olearia pimeleoides</i>	0.1%	50cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	2%	150cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	0.1%	70cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC10

Described by: MMMST **Date:** 23/09/2010 **Type:** Quadrat 20x20m

MGA Zone: 50719151 mE 6695782 mN

Habitat: Mid-slope of low stony rise, middle third of landform element; sloping gently to NW from ridge to east.

Soil: Orange silty loam with ~continuous ironstone coarse fragments on surface, abundant (50-90%) fine gravel to cobbles, sub-rounded to sub-angular; surface crust

Vegetation: *Allocasuarina dielsiana* scattered low trees over *Acacia cockertoniana* (*A. tetragonophylla*, *A. ramulosa* var. *ramulosa*, *A. sp.* narrow phyllodes) tall shrubland over *Dodonaea rigida*, *Philothea brucei* subsp. *brucei*, (*Scaevola spinescens* (spiny, fine leaf), *Scaevola spinescens* (broad leaf, non-spiny form)) open shrubland

Veg Condition: Pristine - old horse droppings but no sign of grazing

Fire Age: Very long unburnt

Notes: 10% leaf litter cover, 90% bare ground. <1% cryptogam cover, 1% dead wood on ground, 20% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia cockertoniana</i>	11%	300-400cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	1%	220cm
<i>Acacia tetragonophylla</i>	3%	180-400cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	1%	220cm
<i>Allocasuarina dielsiana</i>	0.5%	500cm
<i>Aristida contorta</i>	0.1%	4cm
<i>Austrostipa elegantissima</i>	0.1%	40cm
<i>Austrostipa scabra</i>	0.1%	40cm
<i>Brachychiton gregorii</i>	0.1%	250cm
<i>Calocephalus multiflorus</i>	0.1%	4cm
<i>Cheilanthes adiantoides</i>	0.1%	1cm
<i>Comesperma integerrimum</i>	0.1%	180cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	70cm
<i>Dodonaea rigida</i>	5%	70-200cm
<i>Eremophila clarkei</i>	0.1%	150cm
<i>Eremophila metallicorum</i>	0.1%	15cm
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	0.1%	140cm
<i>Gilruthia osbornei</i>	0.1%	2cm
<i>Goodenia havilandii</i>	0.1%	8cm
<i>Hakea recurva</i> subsp. <i>recurva</i>	0.1%	150cm
<i>Marsdenia australis</i>	0.1%	5cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	3%	120-140cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	35cm
<i>Santalum spicatum</i>	0.1%	350cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	1%	150cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	1%	150cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	160cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	3cm
<i>Stenopetalum filifolium</i>	0.1%	15cm
<i>Thysanotus manglesianus</i>	0.1%	20cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC11

Described by: PCPL **Date:** 23/09/2010 **Type:** Quadrat 20x20m

MGA Zone: 50 720198 mE 6695366 mN

Habitat: Mid to lower slope, middle 3rd of landform element; gentle slope to S;

Soil: Orange loam with discontinuous coarse fragments on surface, many (20-50%) coarse gravel/large pebbles to boulders; soil with surface crust and firm

Rock Type: Very rocky 20-50%, subcropping ?BIF

Vegetation: *Acacia cockertoniana*, *Allocasuarina acutivalvis*, *Calycopeplus paucifolius*, *Grevillea obliquistigma* subsp. *obliquistigma*, *Eremophila latrobei* subsp. *latrobei* tall open scrub over *Olearia humilis*, *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207), *Philothea brucei* subsp. *brucei* open shrubland

Veg Condition: Pristine

Fire Age: Very long unburnt

Notes: 25% leaf litter cover, 90% bare ground

SPECIES LIST:	Cover	Height
<i>Acacia</i> ? <i>caesaneura</i> (narrow phyllode variant)	0.1%	400cm
<i>Acacia cockertoniana</i>	15%	450cm
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	15%	500cm
<i>Austrostipa elegantissima</i>	0.1%	50cm
<i>Calycopeplus paucifolius</i>	7%	300cm
<i>Cheilanthes adiantoides</i>	0.1%	1cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	80cm
<i>Eremophila clarkei</i>	0.01%	160cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	6%	220cm
<i>Gilberta tenuifolia</i>	0.1%	4cm
<i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i>	7%	250cm
<i>Hibbertia eatoniae</i>	0.1%	80cm
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1%	160cm
<i>Olearia humilis</i>	1%	120cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.5%	140cm
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.1%	50cm
<i>Thysanotus manglesianus</i>	0.1%	climber
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC12

Described by: MMMST **Date:** 23/09/2010 **Type:** Quadrat 20x20m

MGA Zone: 50 719666 mE 6695016 mN

Habitat: Crest of moderate height (for Deception locality) rocky ridge; top third of landform element

Soil: Orange-brown silty loam with discontinuous coarse fragments on surface, many (20-50%) fine gravel/small pebbles to cobbles, sub-rounded to sub-angular; firm-set

Rock Type: Very slightly rocky (<2%), outcropping BIF
Vegetation: *Acacia cockertoniana*, *Calycopeplus paucifolius*, (*Melaleuca leiocarpa*) tall open shrubland over *Leucopogon* sp. Clyde Hill (M.A. Burgman) scattered shrubs over *Prostanthera althoferi* subsp. *althoferi* scattered low shrubs
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: 10% leaf litter cover, 95% bare ground. <1% cryptogam cover, 1-2% dead wood on ground

SPECIES LIST:	Cover	Height
<i>Acacia cockertoniana</i>	11%	280cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	10cm
<i>Austrostipa elegantissima</i>	0.1%	50cm
<i>Brachychiton gregorii</i>	0.1%	160cm
<i>Calocephalus multiflorus</i>	0.1%	3cm
<i>Calycopeplus paucifolius</i>	4%	250cm
<i>Cheilanthes adiantoides</i>	0.1%	0.5cm
<i>Daucus glochidiatus</i>	0.1%	5cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	90cm
<i>Dodonaea rigida</i>	0.1%	2cm
<i>Eremophila clarkei</i>	0.1%	220cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	0.1%	50cm
<i>Exocarpos aphyllus</i>	0.1%	190cm
<i>Gilberta tenuifolia</i>	0.1%	4cm
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1%	120cm
<i>Melaleuca leiocarpa</i>	1%	260cm
<i>Monachather paradoxus</i>	0.1%	20cm
<i>Olearia humilis</i>	0.1%	45cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.1%	100cm
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	2%	70cm
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)	0.1%	20cm
<i>Stenopetalum filifolium</i>	0.1%	15cm
<i>Thysanotus manglesianus</i>	0.1%	40cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	15cm

Deception Deposit Flora Site: DEC13**Described by:** MM/PC **Date:** 24/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 718971 mE 6694054 mN**Habitat:** Flat plain**Soil:** Orange-brown loam with discontinuous coarse fragments on surface, abundant (50-90%) fine gravel/small pebbles to coarse gravel/large pebbles, sub-rounded; surface crust**Vegetation:** *Acacia* sp. narrow phyllode (B.R. Maslin 7831), (*A. ? caesaneura* (narrow phyllode variant)) tall shrubland over *Eremophila metallicorum*, *A. tetragonophylla* open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** 20% leaf litter cover, 90% bare ground. <1% cryptogam cover, 2% dead wood on ground, <1% dead standing timber, total PFC 25%

SPECIES LIST:	Cover	Height
<i>Acacia ? caesaneura</i> (narrow phyllode variant)	2%	200cm
<i>Acacia obtecta</i>	0.1%	140cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	1%	250cm
<i>Acacia tetragonophylla</i>	2%	160cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	17%	300cm
<i>Allocasuarina dielsiana</i>	0.1%	1200cm
<i>Alyxia buxifolia</i>	1%	250cm
<i>Austrodanthonia ? setacea</i>	0.1%	12cm
<i>Austrostipa elegantissima</i>	0.1%	35-50cm
<i>Calocephalus multiflorus</i>	0.1%	3cm
<i>Comesperma integerrimum</i>	0.1%	twining
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	30cm
<i>Dodonaea rigida</i>	0.1%	140cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	120cm
<i>Eremophila metallicorum</i>	4%	160cm
<i>Exocarpos aphyllus</i>	1%	180cm
<i>Gnephosis tenuissima</i>	0.1%	4cm
<i>Grevillea nematophylla</i> subsp. <i>nematophylla</i>	0.1%	800cm
<i>Marsdenia australis</i>	0.1%	twining
<i>Olearia pimeleoides</i>	0.1%	40cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	45cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	0.1%	70cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	170cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	3cm

Deception Deposit Flora Site: DEC14**Described by:** MMMST **Date:** 23/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 719337 mE 6694793 mN**Habitat:** Upper slope of moderate-sized (for Deception locality) rocky ridge; slope to SE; top 3rd of landform element**Soil:** Orange silty loam with discontinuous coarse fragments on surface, fine gravel/small pebbles to stones, subrounded; soil firm-set and with surface crust**Rock Type:** Frequent outcropping ironstone rocks. Slightly rocky (2-10%); ironstone**Vegetation:** *Acacia cockertoniana*, *Dryandra arborea* tall shrubland over *Philotheca brucei* subsp. *brucei*, (*Eremophila clarkei*) open shrubland over *Prostanthera althoferi* subsp. *althoferi*, *Olearia humilis* scattered low shrubs**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** 70% leaf litter cover and 80% bare ground. <1% cryptogam and dead standing timber, 3% dead wood on ground, 20% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia cockertoniana</i>	11%	300-400cm
<i>Allocasuarina acutivalvis</i>	0.1%	200cm
<i>Austrostipa elegantissima</i>	0.1%	50-60cm
<i>Austrostipa scabra</i>	0.1%	20cm
<i>Brachychiton gregorii</i>	0.1%	340cm
<i>Comesperma integerrimum</i>	0.1%	150cm
<i>Cryptandra connata</i>	0.1%	110cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	60cm
<i>Dodonaea rigida</i>	0.1%	110cm
<i>Dryandra arborea</i>	10%	700-800cm
<i>Eremophila clarkei</i>	1%	110-200cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	0.1%	140-200cm
<i>Eucalyptus longissima</i>	0.1%	1200cm
<i>Monachather paradoxus</i>	0.1%	15cm
<i>Olearia humilis</i>	0.1%	50-100cm
<i>Philotheca brucei</i> subsp. <i>brucei</i>	7%	100-150cm
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.1%	60cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	30cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	0.1%	110cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	20cm
<i>Sida</i> sp.	0.1%	40cm
<i>Spartothamnella teucriflora</i>	0.1%	45cm
<i>Stenopetalum fillifolium</i>	0.1%	15cm
<i>Thysanotus manglesianus</i>	0.1%	80cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Flora Site: DEC15**Described by:** MM/PC **Date:** 24/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 718946 mE 6694179 mN**Habitat:** Flat plain - gravelly**Soil:** Orange silty loam with ~continuous ironstone coarse fragments on surface, abundant (50-90%) fine gravel/small pebbles to coarse gravel/large pebbles, sub-rounded; some calcrete pebbles and stones; surface crust**Rock Type:** No bedrock exposed; underlying calcrete**Vegetation:** *Eucalyptus corrugata* open woodland over *E. longissima* very open tree mallee over *Allocasuarina dielsiana* scattered low trees over *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Santalum spicatum* scattered tall shrubs over *Acacia acanthoclada* subsp. *glaucescens* (*Bossiaea walkeri*, *Olearia muelleri*) low shrubland**Veg Condition:** Pristine - rabbit diggings and odd horse droppings but no sign of impact on vegetation**Fire Age:** Very long unburnt**Notes:** 15% leaf litter cover, 85% bare ground, 20% total PFC. <1% cryptogams and dead wood on ground**SPECIES LIST:**

	Cover	Height
<i>Acacia acanthoclada</i> subsp. <i>glaucescens</i>	15%	60-100cm
<i>Acacia andrewsii</i>	0.1%	110-120cm
<i>Acacia obtecta</i>	0.1%	120cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	0.1%	90cm
<i>Acacia tetragonophylla</i>	0.1%	20-180cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	1%	180cm
<i>Allocasuarina dielsiana</i>	0.1%	450cm
<i>Alyxia buxifolia</i>	0.1%	80-200cm
<i>Austrodanthonia</i> ? <i>setacea</i>	0.1%	10cm
<i>Austrostipa elegantissima</i>	0.1%	50-70cm
<i>Austrostipa scabra</i>	0.1%	5-50cm
<i>Bossiaea walkeri</i>	1%	70-100cm
<i>Calocephalus multiflorus</i>	0.1%	5cm
<i>Comesperma integerrimum</i>	0.1%	70cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	50cm
<i>Dodonaea lobulata</i>	0.1%	40-200cm
<i>Dodonaea rigida</i>	0.1%	60-70cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	80-115cm

<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	0.1%	120cm
<i>Eucalyptus corrugata</i>	6%	900-
<i>Eucalyptus longissima</i>	2%	800cm
<i>Olearia humilis</i>	0.1%	50cm
<i>Olearia muelleri</i>	0.1%	80-100cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.1%	70-130cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	35cm
<i>Rhyncharrhena linearis</i>	0.1%	50cm
<i>Santalum spicatum</i>	0.1%	220-250cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	140cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	0.1%	40cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	80-180cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	22cm

Deception Deposit Flora Site: DEC16**Described by:** MSTPL **Date:** 24/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 **718961 mE 6693973 mN****Habitat:** Flat plain; 0.5 degree slope S**Soil:** Red-brown loam with discontinuous ironstone and granite coarse fragments on surface, abundant (50-90%) medium gravel/medium pebbles to coarse gravel/large pebbles, subangular; hard-setting soil**Rock Type:** No bedrock exposed**Vegetation:** *Casuarina pauper* woodland over *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *A. tetragonophylla*, tall open shrubland over *Senna artemisioides* subsp. *filifolia* scattered shrubs**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** 5% leaf litter cover, 85% bare ground. <1% cryptogam & dead standing timber cover, 1% dead wood on ground**SPECIES LIST:**

	Cover	Height
<i>Acacia acanthoclada</i> subsp. <i>glaucescens</i>	1%	90cm
<i>Acacia</i> ? <i>caesaneura</i> (narrow phyllode variant)	0.1%	220cm
<i>Acacia</i> ? <i>incurvaneura</i>	0.1%	700cm
<i>Acacia obtecta</i>	0.1%	200cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	0.1%	260cm
<i>Acacia tetragonophylla</i>	1%	240cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3%	250cm
<i>Alyxia buxifolia</i>	0.1%	200cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	5cm
<i>Amyema preissii</i>	0.1%	200cm
<i>Austrodanthonia</i> ? <i>setacea</i>	0.1%	20cm
<i>Austrostipa elegantissima</i>	0.1%	50-60cm
<i>Austrostipa nodosa</i>	0.1%	10cm
<i>Bossiaea walkeri</i>	0.5%	150cm
<i>Brachychiton gregorii</i>	0.1%	30cm
<i>Calocephalus multiflorus</i>	0.1%	5cm
<i>Casuarina pauper</i>	12%	1200cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	60cm
<i>Dodonaea rigida</i>	0.1%	100cm
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.1%	5cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	120cm
<i>Eremophila granitica</i>	0.1%	120cm
<i>Eremophila metallicorum</i>	1%	10cm
<i>Exocarpos aphyllus</i>	0.1%	170cm
<i>Hakea recurva</i> subsp. <i>recurva</i>	0.1%	180cm
<i>Maireana trichoptera</i>	0.1%	20cm
<i>Marsdenia australis</i>	0.1%	climber
<i>Olearia muelleri</i>	0.1%	50cm
<i>Olearia pimeleoides</i>	0.1%	40cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.1%	140cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	40cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	60cm
<i>Rhyncharrhena linearis</i>	0.1%	creeper
<i>Santalum spicatum</i>	0.1%	220cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	90cm
<i>Sclerolaena fusiformis</i>	0.1%	5cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1%	130cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	5cm
<i>Solanum nummularium</i>	0.1%	40cm
<i>Spartothamnella teucriflora</i>	0.1%	110cm
<i>Zygophyllum aurantiacum</i>	0.1%	50cm

Deception Deposit Flora Site: DEC17**Described by:** MM/PC **Date:** 24/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 718990 mE 6694793 mN**Habitat:** Middle slope of ridge, gently sloping; middle 3rd of landform element**Soil:** Orange-brown loam with discontinuous coarse fragments on surface, abundant (50-90%) fine gravel/small pebbles to cobbles, sub-rounded to sub-angular; surface crust**Rock Type:** No bedrock exposed**Vegetation:** *Acacia cockertoniana*, *Allocasuarina dielsiana*, *Acacia incurvaneura*, *Acacia ramulosa* var. *ramulosa* tall shrubland over *Philothea brucei* subsp. *brucei*, (*Scaevola spinescens* (spiny, fine leaf), *Scaevola spinescens* (broad leaf, non-spiny form)) open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** 10% leaf litter cover, 90% bare ground. <1% cryptogam cover, 1% dead wood on ground & dead standing timber, 17% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia incurvaneura</i>	2%	400cm
<i>Acacia cockertoniana</i>	5%	400cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	2%	350cm
<i>Allocasuarina dielsiana</i>	4%	500cm
<i>Austrostipa elegantissima</i>	0.1%	20cm
<i>Austrostipa scabra</i>	0.1%	10cm
<i>Cheilanthes adiantoides</i>	0.1%	2cm
<i>Daucus glochidiatus</i>	0.1%	7cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	15cm
<i>Dodonaea rigida</i>	0.1%	140cm
<i>Eremophila clarkei</i>	0.1%	170cm
<i>Erodium cygnorum</i>	0.1%	2cm
<i>Giluthia osbornei</i>	0.1%	4cm
<i>Goodenia havilandii</i>	0.1%	6cm
<i>Lobelia</i> sp.	0.1%	5cm
<i>Olearia humilis</i>	0.1%	60cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	2%	120cm
<i>Podolepis lessonii</i>	0.1%	12cm
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.1%	50cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	60cm
<i>Rhyncharrhena linearis</i>	0.1%	twining
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	170cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	0.5%	150cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	5cm
<i>Stenopetalum filifolium</i>	0.1%	15cm
<i>Thysanotus manglesianus</i>	0.1%	twining
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	15cm

Deception Deposit Flora Site: DEC18**Described by:** MSTPL **Date:** 24/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 719164 mE 6694409 mN**Habitat:** Plain, gently sloping to the SE; middle 3rd of landform element**Soil:** Orange silty loam with ~continuous surface layer of coarse fragments, abundant (50-90%) fine gravel/small pebbles to coarse gravel/large pebbles, subrounded to subangular; soil hard setting and with surface crust**Rock Type:** Ironstone gravel**Vegetation:** *Eucalyptus longissima* open tree mallee over *Acacia cockertoniana*, *A. ramulosa* var. *ramulosa*, *A. incurvaneura* tall shrubland over *Philothea brucei* subsp. *brucei*, (*Daviesia purpurascens*) scattered shrubs over *Olearia humilis* scattered low shrubs**Veg Condition:** Pristine; no effective disturbance except some grazing by stock**Fire Age:** Very long unburnt**Notes:** 20% leaf litter cover, 90% bare ground. <1% cryptogam cover and dead standing timber, 1% dead wood on ground, 18% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia</i> ? <i>caesaneura</i> x <i>mulganeura</i>	0.1%	210cm
<i>Acacia cockertoniana</i>	7%	400cm
<i>Acacia incurvaneura</i>	2%	300cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	2%	400cm
<i>Acacia tetragonophylla</i>	0.1%	30cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	15cm
<i>Austrodanthonia</i> ? <i>setacea</i>	0.1%	12cm
<i>Austrostipa elegantissima</i>	0.1%	60cm
<i>Comesperma integerrimum</i>	0.1%	45cm
<i>Cryptandra connata</i>	0.1%	140cm
<i>Daviesia purpurascens</i>	0.5%	180cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	110cm
<i>Dodonaea rigida</i>	0.1%	180cm
<i>Eremophila clarkei</i>	0.5%	210cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	50cm
<i>Eucalyptus longissima</i>	10	1000cm
<i>Monachather paradoxus</i>	0.1%	15cm

<i>Olearia humilis</i>	2%	45cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	1%	190cm
<i>Psyrax suaveolens</i>	0.1%	180cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	70cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	120cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	130cm
<i>Sida calyxhymenia</i>	0.1%	150cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	50cm
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)	0.1%	25cm
<i>Spartothamnella teucriiflora</i>	0.1%	60cm
<i>Thysanotus manglesianus</i>	0.1%	80cm

Deception Deposit Flora Site: DEC19**Described by:** MMPP **Date:** 24/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 719835 mE 6695746 mN**Habitat:** Flat plain, very gentle slope to the S**Soil:** Orange-brown loam with discontinuous coarse fragments on surface, abundant (50-90%) fine gravel/small pebbles to coarse gravel/large pebbles, rounded; surface crust**Vegetation:** *Eucalyptus longissima*, *E. salubris* open tree mallee over *Acacia* ? *caesaneura* (narrow phyllode variant), *A. ramulosa* var. *ramulosa* scattered tall shrubs over *Atriplex nummularia* subsp. *spathulata* scattered shrubs over *Atriplex stipitata* (*Ptilotus obovatus* var. *obovatus*) low open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** 15% leaf litter cover, >90% bare ground. <1% cryptogam cover/ dead wood on ground/ dead standing timber, 20% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia</i> ? <i>caesaneura</i> (narrow phyllode variant)	0.5%	220cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	0.1%	140-250cm
<i>Acacia tetragonophylla</i>	0.1%	60cm
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	0.1%	190cm
<i>Atriplex stipitata</i>	3%	60-80cm
<i>Austrodanthonia</i> ? <i>setacea</i>	0.1%	25cm
<i>Austrostipa elegantissima</i>	0.1%	60cm
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.1%	60cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	35cm
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	0.1%	60-120cm
<i>Eucalyptus longissima</i>	8%	1100cm
<i>Eucalyptus salubris</i>	4%	1200cm
<i>Gilruthia osbornei</i>	0.1%	2cm
<i>Gunniopsis</i> sp.	0.1%	2cm
<i>Maireana georgei</i>	0.1%	30cm
<i>Maireana trichoptera</i>	0.1%	10cm
<i>Olearia muelleri</i>	0.1%	50cm
<i>Ptilotus exaltatus</i> var. <i>villosus</i>	0.1%	2cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	30-50cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	50cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	60cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	0.1%	80cm
<i>Sclerolaena diacantha</i>	0.1%	10cm
<i>Sclerolaena fusiformis</i>	0.1%	15cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	130-170cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	10cm
<i>Westringia cephalantha</i> var. <i>cephalantha</i>	0.1%	65cm
<i>Zygophyllum aurantiacum</i>	0.1%	30cm

Deception Deposit Flora Site: DEC20**Described by:** MSTPL **Date:** 24/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 718529 mE 6694798 mN**Habitat:** Flat plain, very gently sloping to S**Soil:** Orange-brown silty loam with discontinuous coarse fragments on surface, many (20-50%) coarse gravel/large pebbles, sub-rounded to sub-angular; soil firm and hard setting**Rock Type:** No bedrock exposed**Vegetation:** *Acacia* sp. narrow phyllode (B.R. Maslin 7831), (*Santalum spicatum*) tall shrubland over *Acacia ramulosa* var. *ramulosa*, *Dodonaea rigida* scattered shrubs**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** 20% leaf litter cover, 80% bare ground. <1% cryptogam cover and dead standing timber, 2% dead wood on ground, 20.5% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	1%	170cm
<i>Acacia tetragonophylla</i>	1%	210cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	13%	400cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	20cm
<i>Aristida contorta</i>	0.1%	10cm
<i>Austrostipa elegantissima</i>	0.1%	50cm

<i>Austrostipa eremophila</i>	0.1%	60cm
<i>Brachychiton gregorii</i>	0.1%	370cm
<i>Calocephalus multiflorus</i>	0.1%	3cm
<i>Cheilanthes adiantoides</i>	0.1%	1cm
<i>Comesperma integerrimum</i>	0.1%	climber
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	50cm
<i>Dodonaea rigida</i>	0.5%	120cm
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.1%	1cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	90cm
<i>Eremophila metallicorum</i>	2%	30cm
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	0.1%	40cm
<i>Exocarpos aphyllus</i>	0.1%	40cm
<i>Gilruthia osbornei</i>	0.1%	5cm
<i>Goodenia havilandii</i>	0.1%	5cm
<i>Monachather paradoxus</i>	0.1%	10cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	1%	110cm
<i>Santalum spicatum</i>	2%	220cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	2cm
<i>Solanum nummularium</i>	0.1%	20cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	5cm

Deception Deposit Flora Site: DEC21**Described by:** MM/PC **Date:** 25/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 **720810 mE 6694765 mN****Habitat:** Flat plain**Soil:** Orange-brown loam with areas of superficial orange brown sand; discontinuous coarse fragments on surface, many (20-50%) fine gravel/small pebbles to cobbles, subrounded to angular; surface crust**Rock Type:** No bedrock exposed**Vegetation:** *Eucalyptus longissima* very open tree mallee over *E. corrugata* low open woodland over *Acacia ramulosa* var. *ramulosa*, *A. ? caesaneura* (narrow phyllode variant), *A. sp.* narrow phyllode (B.R. Maslin 7831), *A. tetragonophylla* tall shrubland over *Atriplex nummularia* subsp. *spathulata*, *Eremophila metallicorum*, *Eremophila decipiens* subsp. *decipiens* open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** 3% cover leaf litter, 80% bare ground. <1% cryptogam cover/ dead standing timber, 1% dead wood on ground, 70% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia andrewsii</i>	0.1%	35cm
<i>Acacia ? caesaneura</i> (narrow phyllode variant)	4%	500cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	5%	300cm
<i>Acacia tetragonophylla</i>	1%	300cm
<i>Acacia sp.</i> narrow phyllode (B.R. Maslin 7831)	3%	300cm
<i>Alyxia buxifolia</i>	0.1%	70cm
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	2%	180cm
<i>Austrodanthonia ? setacea</i>	0.1%	30cm
<i>Austrostipa elegantissima</i>	0.1%	35-110cm
<i>Calocephalus multiflorus</i>	0.1%	3cm
<i>Casuarina pauper</i>	0.1%	280cm
? <i>Chenopodium sp.</i>	0.1%	60cm
<i>Comesperma integerrimum</i>	0.1%	twining
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	80cm
<i>Enchylaena lanata</i>	0.1%	50cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	1%	170cm
<i>Eremophila metallicorum</i>	2%	150cm
<i>Erymophyllum ramosum</i> subsp. <i>ramosum</i>	0.1%	7cm
<i>Eucalyptus corrugata</i>	8%	1000cm
<i>Eucalyptus longissima</i>	4%	1200cm
<i>Exocarpos aphyllus</i>	0.1%	100cm
<i>Gilruthia osbornei</i>	0.1%	3cm
<i>Goodenia havilandii</i>	0.1%	4cm
<i>Maireana georgei</i>	0.1%	15-30cm
<i>Marsdenia australis</i>	0.1%	twining
<i>Olearia muelleri</i>	0.1%	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	40cm
<i>Rhagodia ? drummondii</i>	0.1%	50cm
<i>Rhyncharrhena linearis</i>	0.1%	twining
<i>Santalum spicatum</i>	0.1%	250cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	0.1%	120cm
<i>Sclerolaena diacantha</i>	0.1%	8cm
<i>Sclerolaena fusiformis</i>	0.1%	8cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	150cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	15cm
<i>Solanum nummularium</i>	0.1%	40cm
<i>Stenopetalum filifolium</i>	0.1%	25cm
<i>Thysanotus manglesianus</i>	0.1%	50cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC22**Described by:** MSTPL **Date:** 25/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 720416 mE 6694848 mN**Habitat:** Flat plain**Soil:** Orange-brown loam with discontinuous ironstone coarse fragments on surface, many (20-50%) medium gravel/medium pebbles (1-2 cm), subrounded; soil soft and firm**Rock Type:** No bedrock exposed**Vegetation:** *Eucalyptus loxophleba* subsp. *lissophloia* very open tree mallee over *Acacia* sp. narrow phyllode (B.R. Maslin 7831), (*A. ramulosa* var. *ramulosa*, *A. ? caesaneura* (narrow phyllode variant)) tall open shrubland**Veg Condition:** Excellent - rabbit scats and warren**Fire Age:** Very long unburnt**Notes:** 1% leaf litter cover, 90% bare ground. <1% cryptogam cover / dead wood on ground / dead standing timber; 9% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia ? caesaneura</i> (narrow phyllode variant)	1%	400cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	1%	320cm
<i>Acacia tetragonophylla</i>	0.1%	170cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3%	400cm
<i>Alyxia buxifolia</i>	0.1%	190cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	10cm
<i>Atriplex stipitata</i>	0.1%	40cm
<i>Austrodanthonia ? setacea</i>	0.1%	20cm
<i>Austrostipa elegantissima</i>	0.1%	30-40cm
<i>Austrostipa scabra</i>	0.1%	40cm
<i>Calocephalus multiflorus</i>	0.1%	5cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	70cm
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.1%	40cm
<i>Eremophila caperata</i>	0.1%	210cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	30cm
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	4%	1000cm
<i>Gilruthia osbornei</i>	0.1%	5cm
<i>Grevillea nematophylla</i> subsp. <i>nematophylla</i>	0.1%	50cm
<i>Maireana georgei</i>	0.1%	5cm
<i>Monachather paradoxus</i>	0.1%	10cm
<i>Olearia muelleri</i>	0.1%	70cm
<i>Olearia pimeleoides</i>	0.1%	180cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	40cm
<i>Rhagodia ? drummondii</i>	0.1%	180cm
<i>Santalum acuminatum</i>	0.1%	250cm
<i>Santalum spicatum</i>	0.1%	250cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	120cm
<i>Sclerolaena fusiformis</i>	0.1%	10cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	130cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	50cm
<i>Solanum nummularium</i>	0.1%	30cm
<i>Thysanotus manglesianus</i>	0.1%	100cm
<i>Velleia rosea</i>	0.1%	10cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC23**Described by:** MM/PC **Date:** 25/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 720565 mE 6695345 mN**Habitat:** Plain, sloping gently to S**Soil:** Orange-brown silty loam with ~continuous surface mantle of coarse fragments - only small patches where gravel is absent; abundant (50-90%) fine gravel/small pebbles to coarse gravel/large pebbles, rounded to sub-rounded; surface crust**Vegetation:** *Eucalyptus loxophleba* subsp. *lissophloia* very open tree mallee over *Acacia ramulosa* var. *ramulosa*, *Exocarpos aphyllus*, *Eremophila caperata* scattered tall shrubs over *Olearia muelleri*, *Ptilotus obovatus* var. *obovatus* scattered low shrubs**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** 7% leaf litter cover, 96% bare ground. <1% cryptogam cover/ dead wood on ground/ dead standing timber, 9% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia ? caesaneura</i> (narrow phyllode variant)	0.1%	120cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	1%	90-250cm
<i>Acacia tetragonophylla</i>	0.1%	20-200cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	0.1%	150cm
<i>Amyema miquelii</i>	0.1%	140cm
<i>Austrodanthonia ? setacea</i>	0.1%	30cm
<i>Austrostipa elegantissima</i>	0.1%	70cm
<i>Calocephalus multiflorus</i>	0.1%	2cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	60cm
<i>Eremophila caperata</i>	0.1%	50-220cm
<i>Eremophila clarkei</i>	0.1%	170cm

<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	7%	1200cm
<i>Exocarpos aphyllus</i>	1%	70-250cm
<i>Gilruthia osbornei</i>	0.1%	2cm
<i>Lysiana casuarinae</i>	0.1%	70cm
<i>Maireana georgei</i>	0.1%	40cm
<i>Monachather paradoxus</i>	0.1%	40cm
<i>Olearia humilis</i>	0.1%	30-100cm
<i>Olearia muelleri</i>	0.1%	15-70cm
<i>Ptilotus drummondii</i>	0.1%	45cm
<i>Ptilotus exaltatus</i> var. <i>villosus</i>	0.1%	3cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	25-55cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	0.1%	120cm
<i>Sclerolaena diacantha</i>	0.1%	20cm
<i>Sclerolaena fusiformis</i>	0.1%	3-6cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	70-140cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	6cm
<i>Solanum nummularium</i>	0.1%	35cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	15cm

Deception Deposit Flora Site: DEC24**Described by:** MSTPL **Date:** 25/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 720481 **mE** 6695677 **mN****Habitat:** Plain, sloping gently (~2 degrees) to S; top third of landform element**Soil:** Orange-brown silty loam with discontinuous ironstone coarse fragments, many 20-50% coarse gravel/large pebbles (2-60mm), sub-rounded; soil is firm**Vegetation:** *Eucalyptus corrugata*, *E. longissima* very open tree mallee over *Acacia ramulosa* var. *ramulosa*, (*A. cockertoniana*) tall open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Slope bearing 150 degrees (S), angle ~2 degrees, distance to highest point = 200m. 10% leaf litter cover, 90% bare ground. <1% cryptogam cover/ dead standing timber, 2% dead timber on ground, 10% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia</i> ? <i>caesaneura</i> (narrow phyllode variant)	0.1%	160cm
<i>Acacia cockertoniana</i>	1%	300cm
<i>Acacia effusifolia</i>	0.1%	160cm
<i>Acacia</i> ? <i>incurvaneura</i>	0.1%	500cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	4%	300cm
<i>Acacia tetragonophylla</i>	0.1%	160cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	0.1%	300cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	5cm
<i>Amyema miquelii</i>	0.1%	
<i>Austrostipa elegantissima</i>	0.1%	50cm
<i>Brachychiton gregorii</i>	0.1%	200cm
<i>Calocephalus multiflorus</i>	0.1%	2cm
<i>Daviesia purpurascens</i>	0.1%	100cm
<i>Dodonaea rigida</i>	0.1%	130cm
<i>Eremophila clarkei</i>	0.1%	220cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	0.1%	110cm
<i>Eucalyptus corrugata</i>	2.5%	1000cm
<i>Eucalyptus longissima</i>	2%	1000cm
<i>Monachather paradoxus</i>	0.1%	20cm
<i>Olearia humilis</i>	0.1%	40cm
<i>Philotheca brucei</i> subsp. <i>brucei</i>	0.5%	120cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	10cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	100cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	40cm
<i>Sida calyxhymania</i>	0.1%	100cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	40cm
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)	0.1%	10cm
<i>Sida</i> sp.	0.1%	15cm
<i>Thysanotus manglesianus</i>	0.1%	climber

Deception Deposit Flora Site: DEC25**Described by:** MM/PC **Date:** 25/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 720130 **mE** 6695008 **mN****Habitat:** Flat plain**Soil:** Orange-brown loam with discontinuous coarse fragments on surface, many (20-50%) fine gravel/small pebbles to cobbles, subrounded to angular; surface crust**Rock Type:** No bedrock exposed**Vegetation:** *Eucalyptus corrugata* scattered low trees and *E. longissima* open tree mallee over *Acacia cockertoniana*, *A. ? caesaneura* (narrow phyllode variant), *A. ramulosa* var. *ramulosa* (*Eremophila oldfieldii* subsp. *angustifolia*) tall shrubland over *Eremophila clarkei* open shrubland**Veg Condition:** Pristine - very old tyre tracks, no damage to vegetation**Fire Age:** Very long unburnt

Notes: 15% leaf litter cover, 90% bare ground. <1% cryptogam cover, 1% dead wood on ground/ dead standing timber, 70% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia ? caesaneura</i> (narrow phyllode variant)	4%	350cm
<i>Acacia cockertoniana</i>	12%	330cm
<i>Acacia colletioides</i>	0.1%	60cm
<i>Acacia incurvaneura</i>	0.1%	300cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	3%	280cm
<i>Acacia tetragonophylla</i>	0.1%	130cm
<i>Alyxia buxifolia</i>	0.1%	20cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	15cm
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	0.1%	120-160cm
<i>Austrodanthonia ? setacea</i>	0.1%	20cm
<i>Austrostipa elegantissima</i>	0.1%	30-35cm
<i>Austrostipa scabra</i>	0.1%	20cm
<i>Brachychiton gregorii</i>	0.1%	300cm
<i>Daviesia purpurascens</i>	0.1%	100cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	50cm
<i>Dodonaea rigida</i>	0.1%	130cm
<i>Eremophila clarkei</i>	2%	90cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	160cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	0.1%	30cm
<i>Eremophila metallicorum</i>	0.1%	70cm
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	0.5%	250cm
<i>Eucalyptus corrugata</i>	2%	1000cm
<i>Eucalyptus longissima</i>	12%	1200cm
<i>Hakea recurva</i> subsp. <i>recurva</i>	0.1%	350cm
<i>Keraudrenia velutina</i> subsp. <i>velutina</i>	0.1%	10cm
<i>Maireana georgei</i>	0.1%	50cm
<i>Monachather paradoxus</i>	0.1%	20cm
<i>Olearia humilis</i>	0.1%	50cm
<i>Olearia muelleri</i>	0.1%	60cm
<i>Olearia pimeleoides</i>	0.1%	70cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.1%	130cm
<i>Ptilotus drummondii</i>	0.1%	30cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	55cm
<i>Rhyncharrhena linearis</i>	0.1%	twining
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	70cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	0.1%	80cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	180cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	15cm
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)	0.1%	10cm
<i>Solanum nummularium</i>	0.1%	25cm
<i>Thysanotus manglesianus</i>	0.1%	twining

Deception Deposit Flora Site: DEC26

Described by: MSTPL **Date:** 25/09/2010 **Type:** Quadrat 50x50m

MGA Zone: 50 720783 mE 6695632 mN

Habitat: Flat plain, very gently sloping to the E; bottom 3rd of landform element

Soil: Orange-brown silty loam with discontinuous coarse fragments on surface, many (20-50%) fine gravel/small pebbles to coarse gravel/large pebbles, subangular to angular; surface crust

Rock Type: No bedrock exposed

Vegetation: *Eucalyptus corrugata* low open woodland over *Acacia ramulosa* var. *ramulosa*, *A. ? incurvaneura*, *A. ? caesaneura* (narrow phyllode variant) tall open shrubland over *Philothea brucei* subsp. *brucei*, *Senna artemisioides* subsp. *filifolia* scattered shrubs

Veg Condition: Pristine - old tyre tracks

Fire Age: Very long unburnt

Notes: 10% leaf litter cover. <1% cryptogam cover/ dead wood on ground/ dead standing timber, 9% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia ? caesaneura</i> (narrow phyllode variant)	1%	400cm
<i>Acacia incurvaneura</i>	2%	350cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	3%	350cm
<i>Acacia tetragonophylla</i>	0.1%	160cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	30cm
<i>Austrostipa elegantissima</i>	0.1%	50-60cm
<i>Austrostipa platychaeta</i>	0.1%	25cm
<i>Austrostipa scabra</i>	0.1%	30cm
<i>Brachychiton gregorii</i>	0.1%	330cm
<i>Calocephalus multiflorus</i>	0.1%	2cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	30cm
<i>Dodonaea rigida</i>	0.1%	10cm
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.1%	20cm
<i>Eremophila clarkei</i>	0.1%	100cm
<i>Eremophila eriocalyx</i>	0.1%	140cm

<i>Eucalyptus corrugata</i>	3%	900cm
<i>Gilruthia osbornei</i>	0.1%	2cm
<i>Hakea recurva</i> subsp. <i>recurva</i>	0.1%	230cm
<i>Monachather paradoxus</i>	0.1%	10cm
<i>Olearia humilis</i>	0.1%	50cm
<i>Philotheca brucei</i> subsp. <i>brucei</i>	0.5%	180cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	50cm
<i>Rhyncharrhena linearis</i>	0.1%	30cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.5%	100cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	4cm
<i>Solanum ellipticum</i>	0.1%	10cm
<i>Thysanotus manglesianus</i>	0.1%	50cm
<i>Velleia rosea</i>	0.1%	5cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC27**Described by:** MM/PC **Date:** 25/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 **718017 mE 6687707 mN****Habitat:** Flat plain**Soil:** Orange granitic sand, mostly loose surface, some patches of algal crust; very few (<2%) angular granite/quartz fine gravel/small pebbles scattered on surface**Rock Type:** No bedrock exposed**Vegetation:** *Acacia caesaneura* x *mulganeura*, *A. ramulosa* var. *ramulosa* tall open shrubland over *Senna artemisioides* subsp. *filifolia*, *A. obtecta* open shrubland over *Waitzia acuminata* var. *acuminata* scattered herbs**Veg Condition:** Very Good - light grazing pressure by cattle**Fire Age:** Very long unburnt**Notes:** 10% leaf litter cover, 95% bare ground. <1% cryptogam cover/ dead wood on ground**SPECIES LIST:**

	Cover	Height
<i>Acacia caesaneura</i> x <i>mulganeura</i>	5%	160-400cm
<i>Acacia obtecta</i>	4%	150-200cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	4%	160-250cm
<i>Acacia tetragonophylla</i>	0.5%	220cm
<i>Callitris columellaris</i>	0.1%	70cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	50cm
<i>Einadia nutans</i> subsp. <i>eremaea</i>	0.1%	20cm
<i>Eragrostis eriopoda</i>	0.1%	30cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.5%	110cm
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	1%	160cm
<i>Gilruthia osbornei</i>	0.1%	
<i>Gnephosis tenuissima</i>	0.1%	3cm
<i>Lawrencella davenportii</i>	0.1%	6cm
<i>Maireana villosa</i>	0.1%	15cm
<i>Marsdenia australis</i>	0.1%	20cm
<i>Monachather paradoxus</i>	0.1%	35cm
<i>Olearia pimeleoides</i>	0.1%	30-70cm
<i>Phyllangium sulcatum</i>	0.1%	5cm
<i>Plantago debilis</i>	0.1%	3cm
<i>Podolepis canescens</i>	0.1%	2cm
<i>Podolepis capillaris</i>	0.1%	15cm
<i>Podotheca</i> sp.	0.1%	6cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	40cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	50cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	5%	50-170cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	5cm
<i>Solanum nummularium</i>	0.1%	30cm
<i>Stenopetalum fillifolium</i>	0.1%	25cm
<i>Thyridolepis mitchelliana</i>	0.1%	
<i>Velleia rosea</i>	0.1%	3cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.5%	20cm
<i>Wurmbea</i> ? <i>graniticola</i>	0.1%	6cm

Deception Deposit Flora Site: DEC28**Described by:** MSTPL **Date:** 25/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 **717947 mE 6688070 mN****Habitat:** Mid-slope of low rise; middle 3rd of landform element**Soil:** Orange-brown silty loam with discontinuous coarse fragments on surface, ironstone and some calcrete, abundant (50-90%) fine gravel/small pebbles to cobbles, angular tabular; surface crust**Rock Type:** No bedrock exposed, suboutcropping BIF**Vegetation:** *Acacia* sp. narrow phyllode (B.R. Maslin 7831) tall open shrubland over *Ptilotus obovatus* var. *obovatus* open low heath**Veg Condition:** Very Good to Good - clearing associated with hut, ground levelling; has been allowed to regenerate. Abundant weeds - *Erodium* and Brassicaceae spp., rabbit & cow scats**Fire Age:** Very long unburnt**Notes:** Runoff moderately rapid. 2% leaf litter cover, 99% bare ground. <1% cryptogam cover, 35% total PFC

SPECIES LIST:	Cover	Height
<i>Abutilon cryptopetalum</i>	0.1%	40cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	2%	320cm
* <i>Brassica tournefortii</i>	0.1%	1cm
<i>Calotis hispidula</i>	0.1%	2cm
* <i>Carrichtera annua</i>	0.1%	20cm
<i>Cephalopterum drummondii</i>	0.1%	6cm
<i>Crassula colorata</i> var. <i>acuminata</i>	0.1%	2cm
<i>Eriochiton sclerolaenoides</i>	0.1%	10cm
* <i>Erodium cicutarium</i>	0.1%	2cm
<i>Erodium cygnorum</i>	0.1%	2cm
<i>Lemooria burkittii</i>	0.1%	prostrate
<i>Lepidium oxytrichum</i>	0.1%	5cm
<i>Omphalolappula concava</i>	0.1%	7cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	35%	40cm
* <i>Rostraria pumila</i>	0.1%	3cm
<i>Senecio glossanthus</i>	0.1%	10cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	20cm
<i>Sida</i> sp.	0.1%	6cm
* <i>Sisymbrium irio</i>	0.1%	10cm
<i>Solanum lasiophyllum</i>	0.1%	100cm
<i>Solanum nummularium</i>	0.1%	40cm
* <i>Sonchus oleraceus</i>	0.1%	10cm
<i>Stenopetalum filifolium</i>	0.1%	7cm
<i>Stenopetalum lineare</i>	0.1%	10cm

Deception Deposit Flora Site: DEC29**Described by:** MMPL **Date:** 26/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 718069 mE 6689108 mN**Habitat:** Crest of rise, sloping slightly NW; top 3rd of landform element**Soil:** Orange-brown sand with discontinuous coarse fragments on surface, few (10-20%) ironstone fine gravel/small pebbles to medium gravel/medium pebbles, rounded; soil loose and soft**Vegetation:** *Acacia effusifolia* scattered tall shrubs over *Baeckea elderiana*, (*Grevillea obliquistigma* subsp. *obliquistigma*) shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** 2% leaf litter cover, 80% bare ground. <1% cryptogam cover/ dead wood on ground/ dead standing timber, 19% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia duriuscula</i>	0.1%	200cm
<i>Acacia effusifolia</i>	1.5%	320cm
<i>Acacia longispinea</i>	0.5%	300cm
<i>Baeckea elderiana</i>	17%	140cm
<i>Ceratogyne obionoides</i>	0.1%	5cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	60cm
<i>Euryomyrtus patrickiae</i>	0.1%	30cm
<i>Gilberta tenuifolia</i>	0.1%	2cm
<i>Gnephosis tenuissima</i>	0.1%	2cm
<i>Goodenia occidentalis</i>	0.1%	5cm
<i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i>	0.5%	120cm
<i>Millotia perpusilla</i>	0.1%	prostrate
<i>Monachather paradoxus</i>	0.1%	40cm
<i>Podolepis canescens</i>	0.1%	15cm
<i>Thysanotus manglesianus</i>	0.1%	climber
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC30**Described by:** MTPC **Date:** 25/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 718031 mE 6688965 mN**Habitat:** Gently sloping mid-slope, north of small ridge; middle 3rd of landform element**Soil:** Red-brown sandy loam with discontinuous coarse fragments on surface, abundant (50-90%) fine gravel/small pebbles to coarse gravel/large pebbles, sub-rounded to angular**Rock Type:** No bedrock exposed**Vegetation:** *Allocasuarina eriochlamys* subsp. *eriochlamys*, (*Acacia effusifolia*) tall open scrub over *Baeckea elderiana*, *Hibbertia eatoniae*, *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207) low open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Very scattered *Allocasuarina dielsiana*; while 0.5% in quadrat, it is not included in veg description

SPECIES LIST:	Cover	Height
<i>Acacia effusifolia</i>	2%	280cm
<i>Allocasuarina dielsiana</i>	0.5%	400cm
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	30%	280cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	30cm
<i>Aristida contorta</i>	0.1%	8cm
<i>Baeckea elderiana</i>	1%	160cm

<i>Brachychiton gregorii</i>	0.1%	300cm
<i>Brunonia australis</i>	0.1%	8cm
<i>Calocephalus multiflorus</i>	0.1%	3cm
<i>Comesperma integerrimum</i>	0.1%	twining
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	130cm
<i>Dodonaea rigida</i>	0.1%	150cm
<i>Hibbertia eatoniae</i>	2%	40cm
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.5%	70cm
<i>Lobelia</i> sp.	0.1%	5cm
<i>Monachather paradoxus</i>	0.1%	10cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.1%	120cm
<i>Rhyncharhena linearis</i>	0.1%	10cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	20cm
<i>Stenopetalum filifolium</i>	0.1%	8cm
<i>Thysanotus manglesianus</i>	0.1%	30cm
<i>Velleia rosea</i>	0.1%	5cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC31**Described by:** MMPL **Date:** 26/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 **718037 mE 6688752 mN****Habitat:** Hill/rise, sloping ~2-3 degrees to the W; upper slope, top 3rd of landform element
Soil: Orange-brown silty loam with discontinuous ironstone and quartz coarse fragments on surface, many (20-50%) cobbles to stones (2-30cm), sub-angular tabular; soil is firm**Rock Type:** Very slightly rocky (<2%), sub-outcropping granite**Vegetation:** *Acacia quadrimarginea*, *A. incurvaneura* tall open shrubland over *A. ramulosa* var. *ramulosa*, *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207) scattered shrubs over *Prostanthera althoferi* subsp. *althoferi* scattered low shrubs**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Relief: 3m, length: very long, angle: 3 degrees, distance to highest point: 100m. Very slow runoff. 1% leaf litter cover, 92% bare ground. <1% cryptogam cover, 0.5% dead wood on ground/ dead standing timber, 8% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia incurvaneura</i>	3%	400cm
<i>Acacia mulganeura</i>	0.1%	240cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	1%	200cm
<i>Acacia</i> ? sp. Mt Jackson (B. Ryan 176) (sterile)	2%	500cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	0.1%	220cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	10cm
<i>Austrostipa platychaeta</i>	0.1%	110cm
<i>Brachychiton gregorii</i>	0.1%	220cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1%	10cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	40cm
<i>Dodonaea rigida</i>	0.1%	100cm
<i>Eremophila clarkei</i>	0.1%	60cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	0.1%	170cm
<i>Gilruthia osbornei</i>	0.1%	1cm
<i>Goodenia occidentalis</i>	0.1%	6cm
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	1%	160cm
<i>Mirbelia microphylla</i>	0.1%	
<i>Monachather paradoxus</i>	0.1%	30cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.1%	140cm
<i>Phyllangium sulcatum</i>	0.1%	10cm
<i>Podolepis lessonii</i>	0.1%	5cm
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	1%	90cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	0.1%	90cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	5cm
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)	0.1%	15cm
<i>Stenopetalum filifolium</i>	0.1%	10cm
<i>Thysanotus manglesianus</i>	0.1%	40cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC32**Described by:** MTPC **Date:** 26/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 **717988 mE 6688667 mN****Habitat:** Gentle mid-slope, to W of small ridge; aspect WSW**Soil:** Pale orange-brown loam with discontinuous coarse fragments on surface, many (20-50%) medium gravel/medium pebbles to cobbles, sub-angular to angular; surface crust**Rock Type:** No bedrock exposed**Vegetation:** *Acacia caesaneura*, *A. incurvaneura*, *A. effusifolia* tall open shrubland over *Baekkea elderiana* shrubland over *Prostanthera althoferi* subsp. *althoferi* scattered low shrubs**Veg Condition:** Pristine - possible old ground disturbance at NE corner**Fire Age:** Very long unburnt**Notes:** Moderately rapid runoff. 12% leaf litter cover, 97% bare ground. <1% cryptogam cover/ dead wood on ground/ dead standing timber, 25% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia caesaneura</i>	3%	350cm
<i>Acacia effusifolia</i>	2%	210cm
<i>Acacia incurvaneura</i>	2%	380cm
<i>Allocasuarina dielsiana</i>	0.1%	380cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	30cm
<i>Baeckea elderiana</i>	20%	130cm
<i>Calocephalus multiflorus</i>	0.1%	3cm
<i>Comesperma integerrimum</i>	0.1%	30cm
<i>Daucus glochidiatus</i>	0.1%	6cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	130cm
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	0.1%	170cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	0.1%	110cm
<i>Gilberta tenuifolia</i>	0.1%	5cm
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.1%	110cm
<i>Monachather paradoxus</i>	0.1%	40cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.1%	45cm
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	1%	90cm
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)	0.1%	12cm
<i>Thysanotus manglesianus</i>	0.1%	25cm
<i>Velleia rosea</i>	0.1%	8cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC33**Described by:** MMPL **Date:** 26/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 717995 mE 6688331 mN**Habitat:** On NW face of BIF ridge; slope ~20 degrees to SSE; upper slope, top 3rd of landform element**Soil:** Pale orange silty loam with discontinuous coarse fragments on surface, abundant (50-90%) angular fine gravel/small pebbles to stones; soil is loose**Rock Type:** BIF outcropping; rockland (>50%)**Vegetation:** *Acacia* ? *caesaneura* (narrow phyllode variant) tall shrubland over *Eremophila latrobei* subsp. *latrobei*, *Philothea brucei* subsp. *brucei* open shrubland over *Prostanthera althoferi* subsp. *althoferi* scattered low shrubs**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Bearing: SSE, relief: 4m, length: long, angle 20 degrees. Rapid runoff. 1% leaf litter cover, 68% bare ground. <1% cryptogam cover, 0.5% dead wood on ground/ dead standing timber, 78% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia</i> ? <i>caesaneura</i> (narrow phyllode variant)	25%	550cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	0.1%	400cm
<i>Allocasuarina dielsiana</i>	0.1%	800cm
<i>Brachychiton gregorii</i>	1.5%	320cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1%	10cm
<i>Comesperma integerrimum</i>	0.1%	climber
<i>Daucus glochidiatus</i>	0.1%	5cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	40cm
<i>Dodonaea rigida</i>	0.1%	100cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	4%	150cm
<i>Erodium cygnorum</i>	0.1%	5cm
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.1%	30-40cm
<i>Monachather paradoxus</i>	0.1%	40cm
<i>Olearia humilis</i>	0.1%	50cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	2.5%	160cm
<i>Phyllangium sulcatum</i>	0.1%	10cm
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	1%	30cm
<i>Psychdrax suaveolens</i>	0.1%	30cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	10cm
<i>Rhyncharrhena linearis</i>	0.1%	80cm
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)	0.1%	20cm
<i>Solanum ellipticum</i>	0.1%	5cm
<i>Stenopetalum filifolium</i>	0.1%	30cm
<i>Thysanotus manglesianus</i>	0.1%	80cm
<i>Trachymene pilosa</i>	0.1%	1cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC34**Described by:** MTPC **Date:** 26/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 718013 mE 6688263 mN**Habitat:** Crest of low ridge**Soil:** Orange-brown loam with discontinuous coarse fragments on surface, abundant (50-90%) fine gravel/small pebbles to cobbles, sub-angular to angular; surface crust**Rock Type:** No bedrock exposed**Vegetation:** *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *A. quadrimarginea*, (*A. tetragonophylla*) tall open shrubland over *Eremophila oldfieldii* subsp. *angustifolia*, *Dodonaea rigida* scattered shrubs**Veg Condition:** Pristine - some rabbit scats**Fire Age:** Very long unburnt

Notes: 3% cover leaf litter. <1% cryptogam cover/ dead standing timber, 1% dead wood on ground, 12% total PFC

SPECIES LIST:	Cover	Height
<i>Abutilon cryptopetalum</i>	0.1%	8cm
<i>Acacia tetragonophylla</i>	1%	300cm
<i>Acacia</i> ? sp. Mt Jackson (B. Ryan 176) (sterile)	2%	350cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	6%	400cm
<i>Austrodanthonia</i> ? <i>setacea</i>	0.1%	10-20cm
<i>Calocephalus multiflorus</i>	0.1%	2cm
<i>Calotis hispidula</i>	0.1%	
<i>Cephalopterum drummondii</i>	0.1%	2.5cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1%	10cm
<i>Comesperma integerrimum</i>	0.1%	twining
<i>Dodonaea rigida</i>	1%	120-220cm
<i>Eremophila clarkei</i>	0.1%	90cm
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	1%	180cm
<i>Goodenia havilandii</i>	0.1	10cm
<i>Lemooria burkittii</i>	0.1%	1 cm
<i>Marsdenia australis</i>	0.1%	twining
<i>Olearia humilis</i>	0.1%	5cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.1%	120cm
<i>Plantago debilis</i>	0.1%	4cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	30cm
<i>Santalum spicatum</i>	0.1%	300cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	100cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	25cm
<i>Solanum ellipticum</i>	0.1%	20cm
<i>Solanum lasiophyllum</i>	0.1%	35cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	15cm

Deception Deposit Flora Site: DEC35

Described by: MMPL **Date:** 27/09/2010 **Type:** Quadrat 50x50m

MGA Zone: 50 **718200 mE 6691783 mN**

Habitat: Flat plain

Soil: Orange-brown sand with discontinuous coarse fragments on surface, few (2-10%) quartz and ironstone fine gravel/small pebbles, rounded; soil loose and firm

Rock Type: No bedrock exposed

Vegetation: *Eucalyptus formanii* very open tree mallee over *Acacia* ? *incurvaneura*, *A. ramulosa* var. *ramulosa* tall open shrubland over *Cryptandra connata* scattered shrubs over *Philothea tomentella*, *Olearia pimeleoides* scattered low shrubs over *Chamaeoxeros macranthera* scattered herbs

Veg Condition: Pristine

Fire Age: Very long unburnt

Notes: 2% leaf litter cover, 82% bare ground. <1% cryptogam cover, 0.5% dead wood on ground/ dead standing timber, 8% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia colletioides</i>	0.1%	200cm
<i>Acacia</i> ? <i>incurvaneura</i>	1.5%	400cm
<i>Acacia mulganeura</i>	0.1%	450cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	1%	300cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	0.5%	250cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	30cm
<i>Austrostipa elegantissima</i>	0.1%	40cm
<i>Austrostipa platychaeta</i>	0.1%	45cm
<i>Calocephalus multiflorus</i>	0.1%	2cm
<i>Chamaeoxeros macranthera</i>	1%	90cm
<i>Cryptandra connata</i>	1%	130cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	90cm
<i>Eragrostis eriopoda</i>	0.1%	30cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>		
<i>Eucalyptus formanii</i>	5%	1000cm
<i>Eucalyptus longissima</i>	0.1%	500cm
<i>Gilberta tenuifolia</i>	0.1%	1 cm
<i>Gilruthia osbornei</i>	0.1%	1 cm
<i>Goodenia occidentalis</i>	0.1%	5cm
<i>Maireana georgei</i>	0.1%	40cm
<i>Maireana trichoptera</i>	0.1%	40cm
<i>Monachather paradoxus</i>	0.1%	40cm
<i>Olearia muelleri</i>	0.1%	40cm
<i>Olearia pimeleoides</i>	0.5%	100cm
<i>Olearia stuartii</i>	0.1%	30cm
<i>Philothea tomentella</i>	1%	80cm
<i>Phyllangium sulcatum</i>	0.1%	4cm
<i>Prostanthera campbellii</i> x <i>althoferi</i>	0.1%	40cm
<i>Ptilotus drummondii</i>	0.1%	40cm
<i>Rhyncharrhena linearis</i>	0.1%	10cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	80cm

<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	10cm
<i>Stenopetalum filifolium</i>	0.1%	20cm
<i>Thysanotus manglesianus</i>	0.1%	30cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC36**Described by:** MMPP **Date:** 26/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 717983 mE 6688040 mN**Habitat:** Mid- to lower-slope; gentle to moderate (~4 degrees) S aspect**Soil:** Orange-brown silty loam with discontinuous coarse fragments on surface, few (2-10%) ironstone medium gravel/medium pebbles to coarse gravel/large pebbles, angular platy; soil firm and hard set**Rock Type:** No bedrock exposed**Vegetation:** *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *A. ramulosa* var. *ramulosa* tall open shrubland over *A. tetragonophylla* scattered shrubs over *Ptilotus obovatus* var. *obovatus* low open shrubland**Veg Condition:** Excellent - cow scats, occasional weed**Fire Age:** Very long unburnt**Notes:** Bearing: S, relief: ~30m, length: 100m, angle: ~4 degrees. Runoff slow to moderately rapid. 10% leaf litter cover. <1% cryptogam cover, 1% dead wood on ground, 0.5% dead standing timber, 13% total PFC

SPECIES LIST:	Cover	Height
<i>Abutilon cryptopetalum</i>	0.1%	10cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	2%	700cm
<i>Acacia tetragonophylla</i>	1%	200cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	5%	800cm
? <i>Caesia</i> sp. (sterile material)	0.1%	5cm
<i>Calandrinia eremaea</i>	0.1%	10cm
<i>Calotis hispidula</i>	0.1%	1cm
<i>Cephalopterum drummondii</i>	0.1%	1cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1%	10cm
* <i>Cleretum papulosum</i> subsp. <i>papulosum</i>	0.1%	1cm
<i>Crassula colorata</i> var. <i>acuminata</i>	0.1%	4cm
* <i>Cuscuta planiflora</i>	0.1%	10cm
<i>Daucus glochidiatus</i>	0.1%	10cm
<i>Enchylaena lanata</i>	0.1%	20cm
<i>Enneapogon caerulescens</i>	0.1%	5cm
<i>Erodium cygnorum</i>	0.1%	5cm
<i>Goodenia havilandii</i>	0.1%	5cm
<i>Goodenia pinnatifida</i>	0.1%	8cm
<i>Lemooria burkittii</i>	0.1%	prostrate
<i>Lepidium oxytrichum</i>	0.1%	10cm
<i>Lysiana casuarinae</i>	0.1%	parasite
<i>Marsdenia australis</i>	0.1%	50cm
<i>Millotia myosotidifolia</i>	0.1%	2cm
* <i>Pentaschistis airoides</i> subsp. <i>airoides</i>	0.1%	10cm
<i>Plantago debilis</i>	0.1%	10cm
<i>Podolepis canescens</i>	0.1%	20cm
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>	0.1%	1cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	5%	50cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	30cm
<i>Rhodanthe oppositifolia</i>	0.1%	6cm17
<i>Schoenia cassiniana</i>	0.1%	15cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	170cm
<i>Sida calyxhymenia</i>	0.1%	20cm
<i>Solanum ellipticum</i>	0.1%	10cm
<i>Solanum lasiophyllum</i>	0.1%	50cm
<i>Solanum nummularium</i>	0.1%	30cm
<i>Stenopetalum filifolium</i>	0.1%	10cm
<i>Swainsona oliveri</i>	0.1%	1cm
<i>Thysanotus manglesianus</i>	0.1%	climber
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC37**Described by:** MMPL **Date:** 27/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 718636 mE 6692628 mN**Habitat:** Flat plain**Soil:** Orange-brown silty sand with discontinuous coarse fragments on surface, few (2-10%) ironstone and quartz fine gravel/small pebbles, rounded; soil loose and soft**Rock Type:** No bedrock exposed**Vegetation:** *Eucalyptus formanii* very open tree mallee over *Acacia colletioides*, *A. ramulosa* var. *ramulosa* (*A. ? caesaneura* (narrow phyllode variant)) tall open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** 2% leaf litter cover, 71.5% bare ground. <1% cryptogam cover/ dead standing timber, 1% dead wood on ground. 7.5% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia</i> ? <i>caesaneura</i> (narrow phyllode variant)	0.5%	800cm
<i>Acacia colletioides</i>	2%	220cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	1%	300cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	90cm
<i>Austrodanthonia</i> ? <i>setacea</i>	0.1%	20cm
<i>Austrostipa elegantissima</i>	0.1%	50cm
<i>Austrostipa scabra</i>	0.1%	20cm
<i>Calocephalus multiflorus</i>	0.1%	1cm
<i>Cryptandra connata</i>	0.1%	50cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	60cm
<i>Enchylaena lanata</i>	0.1%	20cm
<i>Eremophila eriocalyx</i>	0.1%	50cm
<i>Eucalyptus formanii</i>	6%	1300cm
<i>Gilruthia osbornei</i>	0.1%	1cm
<i>Maireana georgei</i>	0.1%	50cm
<i>Monachather paradoxus</i>	0.1%	10cm
<i>Olearia muelleri</i>	0.1%	90cm
<i>Olearia pimeleoides</i>	0.1%	20cm
<i>Olearia stuartii</i>	0.1%	30cm
<i>Ptilotus drummondii</i>	0.1%	40cm
<i>Ptilotus exaltatus</i> var. <i>villosus</i>	0.1%	20cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	10cm
<i>Sclerolaena diacantha</i>	0.1%	10cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	40cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC38**Described by:** MTPC **Date:** 27/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 717966 mE 6690126 mN**Habitat:** Flat plain, very gently sloping to the W; bottom 3rd of landform element**Soil:** Pale orange-brown sandy silt with discontinuous coarse fragments on surface, many (20-50%) ironstone fine gravel/small pebbles to coarse gravel/large pebbles, rounded to sub-angular; surface crest**Rock Type:** No bedrock exposed**Vegetation:** *Eucalyptus longissima* very open tree mallee with *Callitris columellaris* scattered low trees over *Acacia* sp. narrow phyllode (B.R. Maslin 7831), (*A.* ? *caesaneura* (narrow phyllode variant), *A. ramulosa* var. *ramulosa*, *A. effusifolia*, *Grevillea nematophylla* subsp. *nematophylla*) tall open shrubland over *Senna artemisioides* subsp. *filifolia*, *Eremophila decipiens* subsp. *decipiens* scattered shrubs**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Runoff very slow. 10% leaf litter cover, 98% bare ground. <1% dead wood on ground/ dead standing timber, 13% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia</i> ? <i>caesaneura</i> (narrow phyllode variant)	0.5%	500cm
<i>Acacia colletioides</i>	0.1%	250cm
<i>Acacia effusifolia</i>	0.5%	210cm
<i>Acacia obtecta</i>	0.1%	130cm
<i>Acacia prainii</i>	0.1%	230cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	0.5%	300cm
<i>Acacia tetragonophylla</i>	0.1%	250cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	2%	400cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	20cm
<i>Austrostipa elegantissima</i>	0.1%	50cm
<i>Callitris columellaris</i>	0.5%	700cm
<i>Calocephalus multiflorus</i>	0.1%	2cm
<i>Cryptandra connata</i>	0.1%	35cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	50cm
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.5%	30cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	140cm
<i>Eremophila eriocalyx</i>	0.1%	35cm
<i>Eucalyptus longissima</i>	7%	1000cm
<i>Exocarpos aphyllus</i>	0.1%	300cm
<i>Gnephosis tenuissima</i>	0.1%	3cm
<i>Grevillea nematophylla</i> subsp. <i>nematophylla</i>	0.5%	45cm
<i>Maireana georgei</i>	0.1%	20cm
<i>Monachather paradoxus</i>	0.1%	25cm
<i>Olearia muelleri</i>	0.1%	70cm
<i>Olearia pimeleoides</i>	0.1%	30cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.1%	120cm
<i>Ptilotus drummondii</i>	0.1%	35cm
<i>Ptilotus exaltatus</i> var. <i>villosus</i>	0.1%	20cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	70cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	30cm
<i>Rhyncharrhena linearis</i>	0.1%	10cm
<i>Santalum acuminatum</i>	0.1%	400cm

<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	120cm
<i>Sclerolaena diacantha</i>	0.1%	3cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.5%	130cm
<i>Sida</i> sp. dark green fruit (<i>S. van Leeuwen</i> 2260)	0.1%	4cm

Deception Deposit Flora Site: DEC39**Described by:** MMPL **Date:** 27/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 717991 mE 6685889 mN**Habitat:** Flat plain**Soil:** Pale orange-brown silty sand with granite and quartz sand (2-6mm); soil loose and soft**Vegetation:** *Callitris columellaris* low open woodland over *Alyxia buxifolia*, *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Acacia ramulosa* var. *ramulosa*, (*Acacia obtecta*) tall open shrubland over *Scaevola spinescens* (broad leaf, non-spiny form), *Senna artemisioides* subsp. *filifolia* scattered shrubs over *Eremophila metallicorum* scattered low shrubs**Veg Condition:** Pristine - rabbit warren and scats**Fire Age:** Very long unburnt**Notes:** 10% leaf litter cover, 75% bare ground. <1% cryptogam cover, 1% dead wood on ground/ dead standing timber, 25% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia jennerae</i>	0.1%	100cm
<i>Acacia obtecta</i>	1%	190cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	2%	300cm
<i>Acacia resinosa</i>	0.1%	250cm
<i>Acacia tetragonophylla</i>	0.1%	220cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3%	400cm
<i>Alyxia buxifolia</i>	4%	270cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	10cm
<i>Austrodanthonia</i> ? <i>setacea</i>	0.1%	20cm
<i>Austrostipa elegantissima</i>	0.1%	50-120cm
<i>Austrostipa scabra</i>	0.1%	30cm
<i>Calandrinia</i> sp.	0.1%	5cm
<i>Callitris columellaris</i>	12%	900cm
<i>Chthonocephalus pseudevax</i>	0.1%	prostrate
<i>Comesperma integerrimum</i>	0.1%	climber
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>	0.1%	250cm
<i>Einadia nutans</i> subsp. <i>eremaea</i>	0.1%	10cm
<i>Enchylaena lanata</i>	0.1%	10cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	50cm
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	0.1%	120cm
<i>Eremophila metallicorum</i>	2%	50cm
<i>Exocarpos aphyllus</i>	0.5%	300cm
<i>Marsdenia australis</i>	0.1%	climber
<i>Monachather paradoxus</i>	0.1%	20cm
<i>Olearia pimeleoides</i>	0.1%	40cm
<i>Phyllangium sulcatum</i>	0.1%	1cm
<i>Plantago debilis</i>	0.1%	1cm
<i>Podolepis capillaris</i>	0.1%	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	30cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	100cm
<i>Rhyncharrhena linearis</i>	0.1%	climber
<i>Santalum spicatum</i>	0.1%	230cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	1%	120cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1%	150cm
<i>Solanum nummularium</i>	0.1%	40cm
<i>Stenopetalum filifolium</i>	0.1%	20cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	

Deception Deposit Flora Site: DEC40**Described by:** MTPC **Date:** 27/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 717977 mE 6690730 mN**Habitat:** Flat plain**Soil:** Orange loam with patches of coarse sand on surface; discontinuous coarse fragments, few (2-10%) fine gravel/small pebbles, rounded to sub-rounded; soil mostly with surface crust**Rock Type:** No bedrock exposed**Vegetation:** *Eucalyptus corrugata* open woodland over *Callitris columellaris* scattered low trees over *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *A. ramulosa* var. *ramulosa* tall open shrubland over *Bossiaea walkeri*, *Acacia colletioides*, *Olearia muelleri* open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Scattered *Eucalyptus formanii* to the west of quadrat. 5% leaf litter cover, 95% bare ground. 1% dead wood on ground, <1% dead standing timber, 15% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia ? caesaneura</i> (narrow phyllode variant)	0.1%	400cm
<i>Acacia colletioides</i>	0.5%	180cm
<i>Acacia obtecta</i>	0.1%	170cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	1%	280cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	2%	280cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	30cm
<i>Aristida contorta</i>	0.1%	12cm
<i>Austrostipa elegantissima</i>	0.1%	40cm
<i>Austrostipa scabra</i>	0.1%	20cm
<i>Bossiaea walkeri</i>	2%	200cm
<i>Callitris columellaris</i>	1%	600cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	50cm
<i>Eremophila caperata</i>	0.1%	250cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	120cm
<i>Eucalyptus corrugata</i>	6%	1200cm
<i>Exocarpos aphyllus</i>	0.1%	120cm
<i>Gnephosis tenuissima</i>	0.1%	3cm
<i>Lobelia</i> sp.	0.1%	5cm
<i>Maireana georgei</i>	0.1%	25cm
<i>Monachather paradoxus</i>	0.1%	15cm
<i>Olearia muelleri</i>	0.5%	110cm
<i>Olearia pimeleoides</i>	0.1%	60cm
<i>Phyllangium sulcatum</i>	0.1%	5cm
<i>Podolepis capillaris</i>	0.1%	20cm
<i>Prostanthera grylloana</i>	0.1%	50cm
<i>Psydrax suaveolens</i>	0.1%	110cm
<i>Ptilotus drummondii</i>	0.1%	35cm
<i>Ptilotus exaltatus</i> var. <i>villosus</i>	0.1%	40cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	30cm
<i>Rhyncharrhena linearis</i>	0.1%	8cm
<i>Santalum acuminatum</i>	0.1%	400cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	70cm
<i>Solanum nummularium</i>	0.1%	25cm
<i>Stenopetalum filifolium</i>	0.1%	15cm
<i>Thysanotus manglesianus</i>	0.1%	twining
<i>Triodia tomentosa</i>	0.5%	40/100cm
<i>Westringia cephalantha</i> var. <i>cephalantha</i>	0.1%	110cm
<i>Zygophyllum apiculatum</i>	0.1%	10cm

Deception Deposit Flora Site: DEC41**Described by:** MMPL **Date:** 27/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 **718039 mE 6685678 mN****Habitat:** Flat plain**Soil:** Orange-brown silty sand (coarse quartz sand) with no coarse fragments on surface; soil loose and soft**Vegetation:** *Eucalyptus corrugata* very open tree mallee over *Callitris columellaris* scattered low trees over *Olearia muelleri* scattered low shrubs over *Monachather paradoxus* scattered grasses**Veg Condition:** Excellent to Pristine; occasional **Pentaschistis* grass**Fire Age:** Very long unburnt**Notes:** 3% leaf litter cover, 76% bare ground. <1% cryptogam cover / dead wood on ground / dead standing timber; 14% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia colletioides</i>	0.1%	200cm
<i>Acacia jennerae</i>	0.1%	40cm
<i>Acacia obtecta</i>	0.1%	90-210cm
<i>Acacia tetragonophylla</i>	0.1%	100cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	0.1%	90cm
<i>Actinobole uliginosum</i>	0.1%	1cm
<i>Alyxia buxifolia</i>	0.1%	150cm
<i>Aristida contorta</i>	0.1%	10cm
<i>Austrostipa elegantissima</i>	0.1%	50cm
<i>Austrostipa nodosa</i>	0.1%	35-70cm
<i>Austrostipa scabra</i>	0.1%	30cm
<i>Calandrinia granulifera</i>	0.1%	2cm
<i>Calandrinia</i> sp. Blackberry (D.M. Porter 171)	0.1%	5cm
<i>Callitris columellaris</i>	0.5%	700cm
<i>Chthonocephalus pseudevax</i>	0.1%	prostrate
<i>Daucus glochidiatus</i>	0.1%	10cm
<i>Eremophila caperata</i>	0.1%	190cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	90cm
<i>Erodium cygnorum</i>	0.1%	8cm
<i>Eucalyptus corrugata</i>	10%	1000cm
<i>Exocarpos aphyllus</i>	0.5%	300cm
<i>Goodenia berardiana</i>	0.1%	10cm
<i>Lawrencella davenportii</i>	0.1%	5cm
<i>Lysiana casuarinae</i>	0.1%	parasite
<i>Maireana georgei</i>	0.1%	10cm

<i>Maireana trichoptera</i>	0.1%	10cm
<i>Maireana triptera</i>	0.1%	10cm
<i>Menkea australis</i>	0.1%	3cm
<i>Millotia perpusilla</i>	0.1%	flat
<i>Monachather paradoxus</i>	1%	30cm
<i>Olearia exiguifolia</i>	0.1%	50cm
<i>Olearia muelleri</i>	2%	80cm
<i>Olearia pimeleoides</i>	0.1%	90cm
* <i>Pentaschistis airoides</i> subsp. <i>airoides</i>	0.1%	4cm
<i>Phyllangium sulcatum</i>	0.1%	5cm
<i>Podolepis capillaris</i>	0.1%	20cm
<i>Ptilotus drummondii</i>	0.1%	20cm
<i>Ptilotus exaltatus</i> var. <i>villosus</i>	0.1%	30cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	40cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	30cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	80cm
<i>Schoenia cassiniana</i>	0.1%	10cm
<i>Sclerolaena parviflora</i>	0.1%	10cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.5%	160cm
<i>Stenopetalum filifolium</i>	0.1%	10cm
<i>Velleia rosea</i>	0.1%	2cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm
<i>Wurmbea</i> ? <i>graniticola</i>	0.1%	4cm

Deception Deposit Flora Site: DEC42**Described by:** MTPC **Date:** 27/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 718043 mE 6686510 mN**Habitat:** Flat plain, to E of ridgeline; bottom 3rd of landform element**Soil:** Orange sandy silt with granite gravel, common (10-20%) fine gravel/small pebbles, angular and subangular; surface crust**Rock Type:** Very slightly rocky (<2%), suboutcropping granite**Vegetation:** *Acacia quadrimarginea*, *A. ramulosa* var. *ramulosa* tall open shrubland over *Eremophila forrestii* subsp. *forrestii* scattered shrubs over *Monachather paradoxus*, *Aristida contorta* scattered grasses and mixed Asteraceae scattered herbs**Veg Condition:** Excellent - evidence of cattle and rabbits**Fire Age:** Very long unburnt**Notes:** Borya present in small patches in this vegetation type. Very slow runoff. 4% leaf litter cover, 99% bare ground. <1% cryptogam cover/ dead wood on ground, 8% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia "aneura"</i> (inadequate juvenile material)	0.1%	10cm
<i>Acacia quadrimarginea</i>	3%	400cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	3%	220cm
<i>Acacia tetragonophylla</i>	0.1%	250cm
<i>Aristida contorta</i>	0.5%	20cm
<i>Austrostipa elegantissima</i>	0.1%	50cm
<i>Austrostipa eremophila</i>	0.1%	50cm
<i>Brachyscome iberidifolia</i>	0.1%	10cm
<i>Brachyscome pusilla</i>	0.1%	4cm
<i>Cephalopterum drummondii</i>	0.1%	3cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1%	20cm
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	1.5%	130cm
<i>Erodium cygnorum</i>	0.1%	10cm
<i>Gilberta tenuifolia</i>	0.1%	7cm
<i>Goodenia occidentalis</i>	0.1%	15cm
<i>Lawrencella davenportii</i>	0.1%	6cm
<i>Lemooria burkittii</i>	0.1%	150cm
<i>Mirbelia microphylla</i>	0.1%	35cm
<i>Monachather paradoxus</i>	0.5%	20cm
<i>Podolepis canescens</i>	0.1%	4cm
<i>Podolepis capillaris</i>	0.1%	15cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	50cm
<i>Rhyncharrhena linearis</i>	0.1%	140cm
<i>Schoenia cassiniana</i>	0.1%	15cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	8cm
<i>Solanum ellipticum</i>	0.1%	8cm
<i>Solanum lasiophyllum</i>	0.1%	50cm
<i>Thyridolepis mitchelliana</i>	0.1%	20cm
<i>Trachymene pilosa</i>	0.1%	10cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC43**Described by:** PCPL **Date:** 28/09/2010 **Type:** Q20x20m**MGA Zone:** 50 717962 mE 6683822 mN**Habitat:** Flat plain**Soil:** Pink-orange silty sand with discontinuous coarse fragments on surface, few (2-10%) quartz coarse gravel/large pebbles to cobbles (to 80mm), angular and subangular; soil loose and firm some areas**Rock Type:** No bedrock exposed**Vegetation:** *Acacia cockertoniana*, *A. quadrimarginea* tall open shrubland over *A. incurvaneura*, *Eremophila forrestii* subsp. *forrestii*, *Philotheca brucei* subsp. *brucei* (*Eremophila latrobei* subsp. *latrobei*) open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** No runoff. 3% leaf litter cover, 93.5% bare ground. <1% cryptogam cover, 1% dead wood on ground / dead standing timber, 6.5% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia incurvaneura</i>	1%	180cm
<i>Acacia cockertoniana</i>	2.5%	350cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	0.1%	120cm
<i>Acacia</i> ? sp. Mt Jackson (B. Ryan 176) (sterile)	1%	400cm
<i>Austrostipa elegantissima</i>	0.1%	50cm
<i>Austrostipa scabra</i>	0.1%	45cm
<i>Calocephalus multiflorus</i>	0.1%	5cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1%	10cm
<i>Comesperma integerrimum</i>	0.1%	climber
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	90cm
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	0.1%	10cm
<i>Eremophila clarkei</i>	0.1%	170cm
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	1.5%	160cm
<i>Eremophila</i> aff. <i>forrestii</i>	0.1%	80cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	0.5%	160cm
<i>Gilberta tenuifolia</i>	0.1%	3cm
<i>Goodenia occidentalis</i>	0.1%	3cm
<i>Monachather paradoxus</i>	0.1%	25cm
<i>Olearia humilis</i>	0.1%	40cm
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1	110cm
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.1%	20cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)		10cm
<i>Solanum ellipticum</i>	0.1%	15cm
<i>Velleia rosea</i>	0.1%	1cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	20cm

Deception Deposit Flora Site: DEC44**Described by:** MTPC **Date:** 27/09/2010 **Type:** Q20x20m**MGA Zone:** 50 718004 mE 6686334 mN**Habitat:** Flat plain**Soil:** Orange-brown loam with discontinuous coarse fragments on surface, sub-rounded and sub-angular cobbles; surface crust**Rock Type:** Slightly rocky (2-10%), sub-outcropping granite**Vegetation:** *Acacia ramulosa* var. *ramulosa*, (*A.* sp. narrow phyllode (B.R. Maslin 7831), *Melaleuca hamata*) tall shrubland over *Senna artemisioides* subsp. *filifolia*, *Eremophila forrestii* subsp. *forrestii*, *Philotheca brucei* subsp. *brucei* scattered shrubs**Veg Condition:** Pristine - some cattle and rabbit droppings but no effect on vegetation**Fire Age:** Very long unburnt**Notes:** 50% leaf litter cover, 90% bare ground. 1% cryptogam cover, 2% dead wood on ground, <1% dead standing timber**SPECIES LIST:**

	Cover	Height
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	15%	300cm
<i>Acacia tetragonophylla</i>	0.1%	250cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	2%	400cm
<i>Aristida contorta</i>	0.1%	10cm
<i>Austrostipa eremophila</i>	0.1%	
<i>Austrostipa scabra</i>	0.5%	4-45cm
<i>Brachychiton gregorii</i>	0.1%	180cm
<i>Cephalopterum drummondii</i>	0.5%	4-45cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1%	20cm
<i>Comesperma integerrimum</i>	0.1%	200cm
<i>Eragrostis eriopoda</i>	0.1%	50cm
<i>Eremophila clarkei</i>	0.1%	130cm
<i>Eremophila eriocalyx</i>	0.1%	100cm
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	0.5%	100cm
<i>Erodium cygnorum</i>	0.1%	4cm
<i>Gilberta tenuifolia</i>	0.1%	5cm
<i>Lawrencella davenportii</i>	0.1%	4cm
<i>Lemooria burkittii</i>	0.1%	1cm
<i>Lobelia</i> sp.	0.1%	10cm
<i>Melaleuca hamata</i>	1%	250cm

<i>Monachather paradoxus</i>	0.1%	25cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.5%	140cm
<i>Podolepis canescens</i>	0.1%	5cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	30cm
<i>Rhyncharhena linearis</i>	0.1%	20cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1%	190cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	3cm
<i>Solanum lasiophyllum</i>	0.1%	20cm
<i>Stenopetalum filifolium</i>	0.1%	20cm
<i>Thysanotus manglesianus</i>	0.1%	120cm
<i>Trachymene pilosa</i>	0.1%	5cm
<i>Velleia rosea</i>	0.1%	4cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	20cm

Deception Deposit Flora Site: DEC45**Described by:** PCPL **Date:** 28/09/2010 **Type:** Q20x20m**MGA Zone:** 50 718037 mE 6684136 mN**Habitat:** Edge and base of small breakaway on ridge; top and bottom 3rd of landform element**Soil:** Pale brown clayey loam with few coarse fragments on surface (2-10%), granite and calcrete medium gravel/medium pebbles to cobbles, sub-rounded to sub-angular; surface crust**Rock Type:** Granite and calcrete; slightly rocky (2-10%)**Vegetation:** *Melaleuca leiocarpa*, *Alyxia buxifolia* tall open scrub over *Grevillea extorris*, (*Philothea brucei* subsp. *brucei*) open shrubland over *Lomandra effusa* scattered herbs**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** 1 large *Callitris columellaris* in quadrat but not dominant in this vegetation type. 1% leaf litter cover, 60% bare ground. 1% cryptogam cover / dead standing timber, 1% dead wood on ground, 75% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia cockertoniana</i>	0.1%	140cm
<i>Acacia tetragonophylla</i>	0.1%	130cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	0.1%	350cm
<i>Allocasuarina acutivalvis</i>	0.1%	300cm
<i>Alyxia buxifolia</i>	30%	330cm
<i>Austrodanthonia</i> ? <i>setacea</i>	0.1%	10cm
<i>Austrostipa elegantissima</i>	0.1%	35cm
<i>Callitris columellaris</i>	1%	800cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1%	5cm
<i>Comesperma integerrimum</i>	0.1%	130cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	60cm
<i>Dodonaea inaequifolia</i>	0.1%	160cm
<i>Enchylaena lanata</i>	0.1%	30cm
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	0.1%	50cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	0.1%	140cm
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	0.1%	600cm
<i>Exocarpos aphyllus</i>	0.1%	120cm
<i>Grevillea extorris</i>	5%	160cm
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.1%	110cm
<i>Lomandra effusa</i>	1%	40cm
<i>Melaleuca leiocarpa</i>	30%	350cm
<i>Olearia humilis</i>	0.1%	40cm
<i>Olearia pimeleoides</i>	0.1%	50cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.5%	150cm
<i>Pittosporum angustifolium</i>	0.1%	130cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	50cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	30cm
<i>Santalum spicatum</i>	0.1%	220cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	30cm

Deception Deposit Flora Site: DEC46**Described by:** MMMST **Date:** 28/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 718058 mE 6683757 mN**Habitat:** Flat plain (gravelly)**Soil:** Orange-brown loam with algal crust and discontinuous surface mantle of abundant coarse fragments (50-90%), rounded ironstone fine gravel to medium pebbles; surface crust**Vegetation:** *Acacia effusifolia* (*A. incurvaneura*) tall open shrubland over *Baeckea elderiana*, *Grevillea erectiloba* shrubland over *Euryomyrtus patrickiae*, *Philothea deserti* subsp. ? nov scattered low shrubs over *Amphipogon caricinus* var. *caricinus* scattered grasses**Veg Condition:** Pristine - old cattle droppings present but no visible disturbance**Fire Age:** Very long unburnt**Notes:** Slow runoff. 1% leaf litter cover, 85% bare ground. <1% cryptogam cover and dead standing timber, 1% dead wood on ground, 25% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia incurvaneura</i>	0.5%	230cm
<i>Acacia effusifolia</i>	4%	50-250cm
<i>Allocasuarina dielsiana</i>	0.1%	55cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	1%	30-40cm
<i>Austrostipa elegantissima</i>	0.1%	70cm
<i>Austrostipa tenuifolia</i>	0.1%	60cm
<i>Baeckea elderiana</i>	12%	30-40cm
<i>Bellida graminea</i>	0.1%	3cm
<i>Borya constricta</i>	0.1%	4cm
<i>Brachyscome pusilla</i>	0.1%	3cm
<i>Calocephalus multiflorus</i>	0.1%	5cm
<i>Ceratogyne obionoides</i>	0.1%	2cm
<i>Daucus glochidiatus</i>	0.1%	5cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	40-100cm
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	0.1%	50cm
<i>Erodium cygnorum</i>	0.1%	4cm
<i>Euryomyrtus patrickiae</i>	0.1%	10-30cm
<i>Gilberta tenuifolia</i>	0.1%	3cm
<i>Goodenia occidentalis</i>	0.1%	4cm
<i>Grevillea erectiloba</i>	8%	110-140cm
<i>Keraudrenia velutina</i> subsp. <i>velutina</i>	0.1%	50cm
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.1%	100cm
<i>Mirbelia microphylla</i>	0.1%	35-60cm
<i>Monachather paradoxus</i>	0.1%	20cm
<i>Philotheca deserti</i> subsp. ?nov.	0.1%	50cm
<i>Podolepis canescens</i>	0.1%	6cm
<i>Prostanthera campbellii</i>	0.1%	50cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	40cm
<i>Stylidium dielsianum</i>	0.1%	2cm
<i>Thysanotus manglesianus</i>	0.1%	25cm
<i>Trachymene pilosa</i>	0.1%	5cm
<i>Velleia</i> ? <i>hispida</i>	0.1%	4cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	20cm

Deception Deposit Flora Site: DEC47**Described by:** PCPL **Date:** 28/09/2010 **Type:** Q20x20m**MGA Zone:** 50 718052 mE 6684598 mN**Habitat:** Flat plain**Soil:** Orange-brown firm silty sand; no coarse fragments**Vegetation:** *Acacia effusifolia* tall shrubland**Veg Condition:** Pristine; limited grazing by stock**Fire Age:** Very long unburnt**Notes:** No runoff. 5% leaf litter cover, 89% bare ground. <1% cryptogam cover/ dead standing timber, 2% dead wood on ground, 11% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia effusifolia</i>	11%	320cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	10cm
<i>Austrostipa tenuifolia</i>	0.1%	70cm
<i>Calocephalus multiflorus</i>	0.1%	2cm
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	0.1%	160cm
<i>Eremophila granitica</i>	0.1%	160cm
<i>Gilberta tenuifolia</i>	0.1%	2cm
<i>Gnephosis tenuissima</i>	0.1%	1cm
<i>Goodenia occidentalis</i>	0.1%	4cm
<i>Monachather paradoxus</i>	0.1%	
<i>Olearia pimeleoides</i>	0.1%	20cm
<i>Podolepis canescens</i>	0.1%	8cm
<i>Prostanthera campbellii</i> x <i>althoferi</i>	0.1%	110cm
<i>Rhyncharrhena linearis</i>	0.1%	20cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	

Deception Deposit Flora Site: DEC48**Described by:** MMMST **Date:** 28/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 718042 mE 6684083 mN**Habitat:** Ridge top, plain to the south, small drop (1.5-2m) to the N; top 3rd of landform element**Soil:** Pale orange-brown silt with discontinuous granite gravel and rocks on surface, very/abundant (50-90%) medium gravel/medium pebbles to boulders, subrounded to subangular; surface crust**Rock Type:** Quartz and granite; slightly rocky (2-10%), small - medium (to 20cm) rocks**Vegetation:** *Acacia cockertoniana* tall open shrubland over *Eremophila latrobei* subsp. *latrobei*, *Philotheca brucei* subsp. *brucei* scattered shrubs over *Cheilanthes sieberi* subsp. *sieberi* scattered herbs**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Runoff very slow. <1% leaf litter cover, 99% bare ground. 80% cryptogam cover, <1% dead wood on ground, 4% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia cockertoniana</i>	4%	250cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	0.1%	1.5cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	20cm
<i>Austrostipa eremophila</i>	0.1%	35cm
? <i>Caesia</i> sp. (sterile material)	0.1%	5cm
<i>Calocephalus multiflorus</i>	0.1%	2cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1%	8cm
<i>Crassula colorata</i> var. <i>colorata</i>	0.1%	4cm
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	0.1%	11cm
<i>Eragrostis eriopoda</i>	0.1%	30cm
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	0.1%	10cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	0.1%	140cm
<i>Erodium cygnorum</i>	0.1%	2cm
<i>Gilberta tenuifolia</i>	0.1%	5cm
<i>Goodenia occidentalis</i>	0.1%	3cm
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.1%	40cm
<i>Lobelia</i> sp.	0.1%	5cm
<i>Monachather paradoxus</i>	0.1%	15cm
<i>Ophioglossum lusitanicum</i>	0.1%	1.5cm
<i>Philotheca brucei</i> subsp. <i>brucei</i>	0.1%	110cm
<i>Podolepis canescens</i>	0.1%	10cm
<i>Stenopetalum filifolium</i>	1%	25cm
<i>Tripogon loliformis</i>	0.1%	1.5cm

Deception Deposit Flora Site: DEC49**Described by:** PCPL **Date:** 28/09/2010 **Type:** Q20x20m**MGA Zone:** 50 718014 mE 6685019 mN**Habitat:** Very gently sloping plain; bottom third of landform element**Soil:** Orange sandy loam with discontinuous quartz coarse fragments on surface, slight/few (2-10%) fine gravel, pebbles and cobbles, sub-angular to angular; surface quartz**Rock Type:** Very slightly rocky (2-10%), sub-outcropping granite**Vegetation:** *Acacia quadrimarginea* tall open shrubland over *Eremophila forrestii* subsp. *forrestii*, *Calycopeplus paucifolius* open shrubland over *Mirbelia microphylla* scattered low shrubs over *Borya constricta* scattered herbs**Veg Condition:** Pristine; limited grazing by stock**Fire Age:** Very long unburnt**Notes:** <1% leaf litter cover, 98% bare ground. <1% cryptogam cover/ dead standing timber, 1% dead wood on ground, 10% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia</i> ? sp. Mt Jackson (B. Ryan 176) (sterile)	3%	330cm
<i>Aristida contorta</i>	0.1%	15cm
<i>Austrostipa eremophila</i>	0.1%	45cm
<i>Borya constricta</i>	0.5%	10cm
<i>Brachyscome pusilla</i>	0.1%	2-3cm
<i>Calycopeplus paucifolius</i>	1%	180cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1%	10cm
<i>Chthonocephalus pseudevax</i>	0.1%	prostrate
<i>Comesperma integerrimum</i>	0.1%	20cm
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	4%	160cm
<i>Eremophila serrulata</i>	0.1%	20cm
<i>Erodium cygnorum</i>	0.1%	2cm
<i>Gilberta tenuifolia</i>	0.1%	1.5cm
<i>Gnephosis tenuissima</i>	0.1%	5cm
<i>Goodenia occidentalis</i>	0.1%	6cm
<i>Lobelia</i> sp.	0.1%	5cm
<i>Mirbelia microphylla</i>	0.5%	30cm
<i>Monachather paradoxus</i>	0.1%	25cm
<i>Podolepis canescens</i>	0.1%	6cm
<i>Podolepis capillaris</i>	0.1%	17cm
<i>Schoenia cassiniana</i>	0.1%	10cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	15cm
<i>Solanum ellipticum</i>	0.1%	10cm
<i>Stenopetalum filifolium</i>	0.1%	20cm
<i>Thelymitra petrophila</i>	0.1%	25cm
<i>Thysanotus manglesianus</i>	0.1%	25cm
<i>Trachymene pilosa</i>	0.1%	3cm
<i>Velleia rosea</i>	0.1%	1cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC50**Described by:** MMMST **Date:** 28/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 **717973 mE 6684533 mN****Habitat:** Flat plain (sandy)**Soil:** Orange-brown loam with algal crust; slight/few coarse fragments on surface, fine gravel/small pebbles, angular and sub-angular; surface crust with loose sand overlying in patches**Vegetation:** *Eucalyptus loxophleba* subsp. *lissophloia* very open tree mallee over *E. celastroides* subsp. *celastroides*, *Callitris columellaris* scattered low trees over *Eremophila caperata* scattered tall shrubs over *Olearia muelleri*, *Ptilotus obovatus* var. *obovatus* scattered low shrubs**Veg Condition:** Pristine - old cow scats but no sign of disturbance to vegetation**Fire Age:** Very long unburnt**Notes:** Very slow runoff. 7% leaf litter cover, 95% bare ground. <1% cryptogam cover/ dead standing timber, 2% dead wood on ground, 10% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia colletioides</i>	0.1%	90-220cm
<i>Acacia effusifolia</i>	0.1%	120cm
<i>Acacia jennerae</i>	0.1%	40-50cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	0.1%	140cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	0.1%	70-190cm
<i>Alyxia buxifolia</i>	0.1%	70cm
<i>Aristida contorta</i>	0.1%	15cm
<i>Austrodanthonia</i> ? <i>setacea</i>	0.1%	50cm
<i>Austrostipa elegantissima</i>	0.1%	70cm
<i>Austrostipa platychaeta</i>	0.1%	50cm
<i>Austrostipa scabra</i>	0.1%	35cm
<i>Brachychiton gregorii</i>	0.1%	170cm
<i>Callitris columellaris</i>	0.5%	80-800cm
<i>Calocephalus multiflorus</i>	0.1%	2cm
<i>Calotis hispidula</i>	0.1%	5cm
<i>Chthonocephalus pseudevax</i>	0.1%	1cm
<i>Comesperma integerrimum</i>	0.1%	70cm
<i>Daucus glochidiatus</i>	0.1%	15cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	35cm
<i>Enchylaena lanata</i>	0.1%	20cm
<i>Eremophila caperata</i>	1%	50-250cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	150cm
<i>Eremophila metallicorum</i>	0.1%	70cm
<i>Eremophila pantonii</i>	0.1%	90cm
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	7%	900cm
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	7%	900-1300cm
<i>Gnephosis tenuissima</i>	0.1%	2cm
<i>Lepidium oxytrichum</i>	0.1%	8cm
<i>Maireana carnosa</i>	0.1%	5cm
<i>Maireana georgei</i>	0.1%	40cm
<i>Maireana trichoptera</i>	0.1%	20cm
<i>Marsdenia australis</i>	0.1%	80cm
<i>Monachather paradoxus</i>	0.1%	20cm
<i>Olearia exiguiifolia</i>	0.1%	25cm
<i>Olearia muelleri</i>	0.5%	50-70cm
<i>Olearia pimeleoides</i>	0.1%	50-130cm
<i>Phyllangium sulcatum</i>	0.1%	3cm
<i>Podolepis capillaris</i>	0.1%	10cm
<i>Prostanthera campbellii</i> x <i>althoferi</i>	0.1%	130cm
<i>Ptilotus drummondii</i>	0.1%	40cm
<i>Ptilotus exaltatus</i> var. <i>villosus</i>	0.1%	45cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	40cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	40-120cm
<i>Rhyncharrhena linearis</i>	0.1%	70cm
<i>Sclerolaena diacantha</i>	0.1%	5cm
<i>Sclerolaena fusiformis</i>	0.1%	5cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	30-170cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	30cm
<i>Solanum nummularium</i>	0.1%	70cm
<i>Stenopetalum filifolium</i>	0.1%	30cm
<i>Thysanotus manglesianus</i>	0.1%	60cm
<i>Thysanotus speckii</i>	0.1%	5cm
<i>Trachymene pilosa</i>	0.1%	2cm
<i>Velleia rosea</i>	0.1%	6cm

Deception Deposit Flora Site: DEC51

Described by: PCPL **Date:** 29/09/2010 **Type:** Q20x20m
MGA Zone: 50 718031 mE 6681977 mN
Habitat: Flat plain
Soil: Pale orange-brown sandy loam with discontinuous coarse fragments on surface, common (10-20%) fine gravel/small pebbles to coarse gravel/large pebbles, rounded to sub-rounded; surface
Rock Type: No bedrock exposed
Vegetation: *Acacia effusifolia*, (*Melaleuca hamata*) tall shrubland over *Baeckea elderiana*, (*Prostanthera campbellii*) open shrubland
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: 2% leaf litter cover, 75% bare ground. <1% cryptogam cover/ dead standing timber, 1-2% dead wood on ground, 65% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia effusifolia</i>	15%	350cm
<i>Aluta aspera</i> subsp. <i>aspera</i>	0.1%	50cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	35cm
<i>Baeckea elderiana</i>	10%	170cm
<i>Calocephalus multiflorus</i>	0.1%	2cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	70cm
<i>Euryomyrtus patrickiae</i>	0.1%	15cm
<i>Gilberta tenuifolia</i>	0.1%	3cm
<i>Hemigenia pedunculata</i>	0.1%	25cm
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.1%	90cm
<i>Melaleuca hamata</i>	5%	300cm
<i>Monachather paradoxus</i>	0.1%	30cm
<i>Philothea deserti</i> subsp. ?nov.	0.1%	20cm
<i>Podolepis canescens</i>	0.1%	4cm
<i>Prostanthera campbellii</i>	1%	35-170cm
<i>Prostanthera grylloana</i>	0.1%	25cm
<i>Stylidium dielsianum</i>	0.1%	3cm
<i>Thysanotus manglesianus</i>	0.1%	twining
<i>Trachymene pilosa</i>	0.1%	3cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC52

Described by: MMMST **Date:** 28/09/2010 **Type:** Quadrat 20x20m
MGA Zone: 50 718022 mE 6685431 mN
Habitat: Flat plain, very gently sloping to E; middle 3rd of landform element
Soil: Orange-brown loamy sand with discontinuous quartz gravel; common (10-20%) fine gravel/small pebbles to coarse gravel/large pebbles, angular and sub-angular; surface crust
Rock Type: No bedrock exposed
Vegetation: *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *A. ramulosa* var. *ramulosa* (*A. ? caesaneura* (narrow phyllode variant), *A. tetragonophylla*) tall shrubland over *Eremophila forrestii* subsp. *forrestii*, *Philothea brucei* subsp. *brucei*, (*Eremophila clarkei*) open shrubland
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: Very slow runoff. 20% leaf litter, 96% bare ground. 1% cryptogam cover, 2% dead wood on ground, <1% dead standing timber, 16% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia ? caesaneura</i> (narrow phyllode variant)	1%	700cm
<i>Acacia obtecta</i>	0.1%	120cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	4%	450cm
<i>Acacia tetragonophylla</i>	0.5%	320cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	5%	450cm
<i>Austrostipa elegantissima</i>	0.1%	60cm
<i>Austrostipa eremophila</i>	0.1%	50cm
<i>Austrostipa platychaeta</i>	0.1%	35cm
<i>Cephalipterum drummondii</i>	0.1%	10cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1%	15cm
<i>Chthonocephalus pseudevax</i>	0.1%	1cm
<i>Comesperma integerrimum</i>	0.1%	70cm
<i>Crassula colorata</i> var. <i>colorata</i>	0.1%	3cm
<i>Daucus glochidiatus</i>	0.1%	10cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	70cm
<i>Eremophila clarkei</i>	0.1%	60cm
<i>Eremophila eriocalyx</i>	0.1%	120cm
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	3%	190cm
<i>Erodium cygnorum</i>	0.1%	2.5cm
<i>Gnephosis tenuissima</i>	0.1%	4cm
<i>Monachather paradoxus</i>	0.1%	35cm
<i>Olearia pimeleoides</i>	0.1%	30cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	2%	180cm
<i>Podolepis canescens</i>	0.1%	5cm
<i>Rhagodia ? drummondii</i>	0.1%	60cm

<i>Rhyncharhena linearis</i>	0.1%	160cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	0.1%	110cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	140cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	40cm
<i>Solanum lasiophyllum</i>	0.1%	40cm
<i>Stenopetalum filifolium</i>	0.1%	25cm
<i>Thysanotus manglesianus</i>	0.1%	20cm
<i>Velleia</i> ? <i>hispida</i>	0.1%	3cm
<i>Velleia rosea</i>	0.1%	4cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	12cm

Deception Deposit Flora Site: DEC53**Described by:** PCPL **Date:** 29/09/2010 **Type:** Q50x50m**MGA Zone:** 50 718009 mE 6681671 mN**Habitat:** Flat plain**Soil:** Pale orange-brown sandy loam with discontinuous coarse fragments on surface, very slight/very few (<2%) fine gravel/small pebbles to medium gravel/medium pebbles, rounded; soil soft to firm with some hard setting areas**Rock Type:** Laterite pebbles ~1cm**Vegetation:** *Eucalyptus formanii*, *E. celastroides* subsp. *celastroides* very open tree mallee over *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *A. ramulosa* var. *ramulosa* tall open shrubland over *Scaevola spinescens* (broad leaf, non-spiny form), *Westringia cephalantha* var. *cephalantha* scattered shrubs**Veg Condition:** Excellent - rabbit warren and scats**Fire Age:** Very long unburnt**Notes:** 2% leaf litter cover, 90.5% bare ground. <1% cryptogam cover, 1% dead wood on ground/ dead standing timber, 9.5% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia colletioides</i>	0.1%	100cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	1%	300cm
<i>Acacia tetragonophylla</i>	0.1%	280cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	2%	400cm
<i>Aristida contorta</i>	0.1%	10cm
<i>Austrostipa elegantissima</i>	0.1%	100cm
<i>Austrostipa scabra</i>	0.1%	35cm
<i>Callitris columellaris</i>	0.1%	600cm
<i>Calocephalus multiflorus</i>	0.1%	
<i>Comesperma integerrimum</i>	0.1%	150cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	90cm
<i>Eremophila caperata</i>	0.1%	
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	80cm
<i>Eremophila eriocalyx</i>	0.1%	70cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	0.1%	30cm
<i>Eremophila metallicorum</i>	0.1%	60cm
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	2%	1000cm
<i>Eucalyptus formanii</i>	4%	1000cm
<i>Gilruthia osbornei</i>	0.1%	1cm
<i>Maireana georgei</i>	0.1%	10cm
<i>Monachather paradoxus</i>	0.1%	35cm
<i>Olearia muelleri</i>	0.1%	
<i>Olearia pimeleoides</i>	0.1%	100cm
<i>Philotheca brucei</i> subsp. <i>brucei</i>	0.1%	150cm
<i>Ptilotus drummondii</i>	0.1%	30cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	40cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	30cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	1%	110cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	0.1%	40cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	160cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	
<i>Solanum nummularium</i>	0.1%	30cm
<i>Velleia rosea</i>	0.1%	2cm
<i>Westringia cephalantha</i> var. <i>cephalantha</i>	0.5%	150cm
<i>Zygophyllum aurantiacum</i>	0.1%	50cm

Deception Deposit Flora Site: DEC54**Described by:** MMMST **Date:** 29/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 718032 mE 6682141 mN**Habitat:** Flat plain (sandy)**Soil:** Orange-brown sand with patches of loose sand over general algal crust - crust much thinner than in other areas; very few coarse fragments on surface (<2%), rounded fine gravel/small pebbles; surface crust**Rock Type:** No bedrock exposed**Vegetation:** *Eucalyptus leptopoda* subsp. *subluta* scattered low mallees over *Leptospermum fastigiatum*, (*Acacia effusifolia*) tall open shrubland over *Grevillea acacioides*, *Thryptomene kochii* open shrubland over *Triodia rigidissima* open hummock grassland**Veg Condition:** Pristine**Fire Age:** Very long unburnt

Notes: Very slow runoff. 5% leaf litter cover, 85% bare ground. <1% dead wood on ground, 25% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia effusifolia</i>	1.5%	320cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	35cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	70cm
<i>Eucalyptus leptopoda</i> subsp. <i>subluta</i>	0.5%	300cm
<i>Euryomyrtus patrickiae</i>	0.1%	35cm
<i>Grevillea acacioides</i>	3%	150-180cm
<i>Leptospermum fastigiatum</i>	6%	190-250cm
<i>Thryptomene kochii</i>	3%	70-120cm
<i>Triodia rigidissima</i>	12%	20-35cm

Deception Deposit Flora Site: DEC55

Described by: PCPL **Date:** 29/09/2010 **Type:** Q50x50m

MGA Zone: 50 717714 mE 6679479 mN

Habitat: Flat plain

Soil: Brown sandy loam with no coarse fragments; soil surface soft

Vegetation: *Eucalyptus salmonophloia* open woodland over *E. corrugata* very open tree mallee over *Acacia ramulosa* var. *ramulosa*, *Dodonaea viscosa* subsp. *angustissima*, (*Eremophila scoparia*) tall open shrubland over *Senna artemisioides* subsp. *filifolia*, *Eremophila decipiens* subsp. *decipiens* scattered shrubs over *Atriplex stipitata* scattered low shrubs

Veg Condition: Excellent - cow scats

Fire Age: Very long unburnt

Notes: 4% leaf litter cover, 91% bare ground. <1% cryptogam cover/ dead standing timber, 0.5% dead wood on ground, 9% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia caesaneura</i> (narrow phyllode variant)	0.1%	380cm
<i>Acacia colletioides</i>	0.1%	220cm
<i>Acacia jennerae</i>	0.1%	200cm
<i>Acacia obtecta</i>	0.1%	250cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	3%	300cm
<i>Acacia tetragonophylla</i>	0.1%	100cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	0.1%	200cm
<i>Aristida contorta</i>	0.1%	10cm
<i>Atriplex stipitata</i>	0.5%	40cm
<i>Atriplex vesicaria</i>	0.1%	110cm
<i>Austrodanthonia</i> ? <i>setacea</i>	0.1%	40cm
<i>Austrostipa elegantissima</i>	0.1%	100cm
<i>Calotis hispidula</i>	0.1%	1cm
<i>Cephalopterum drummondii</i>	0.1%	3cm
<i>Crassula colorata</i> var. <i>colorata</i>	0.1%	2cm
<i>Daucus glochidiatus</i>	0.1%	3cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	90cm
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>	1%	220cm
<i>Enchylaena lanata</i>	0.1%	15cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.5%	140cm
<i>Eremophila scoparia</i>	0.1%	300cm
<i>Erodium cygnorum</i>	0.1%	8cm
<i>Eucalyptus corrugata</i>	3%	1300cm
<i>Eucalyptus salmonophloia</i>	2%	1800cm
<i>Exocarpos aphyllus</i>	0.1%	80cm
<i>Lepidium phlebopetalum</i>	0.1%	2cm
<i>Maireana georgei</i>	0.1%	30cm
<i>Maireana trichoptera</i>	0.1%	7cm
<i>Olearia muelleri</i>	0.1%	50cm
<i>Omphalolappula concava</i>	0.1%	10cm
<i>Podolepis capillaris</i>	0.1%	10cm
<i>Ptilotus exaltatus</i> var. <i>villosus</i>	0.1%	20cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	30cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	160cm
<i>Rhyncharhena linearis</i>	0.1%	10cm
* <i>Rostraria pumila</i>	0.1%	4cm
<i>Sclerolaena diacantha</i>	0.1%	30cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	1%	200cm
<i>Sida</i> sp.	0.1%	1cm
<i>Solanum nummularium</i>	0.1%	20cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	7cm

Deception Deposit Flora Site: DEC56

Described by: MMMST **Date:** 29/09/2010 **Type:** Quadrat 50x50m
MGA Zone: 50 718003 mE 6682460 mN
Habitat: Plain, very gently sloping to SSE
Soil: Orange sand discontinuous coarse sand and fine gravel/small pebbles on surface; surface crust
Rock Type: No bedrock exposed
Vegetation: *Eucalyptus formanii*, *E. concinna* very open tree mallee over *Eremophila caperata* scattered tall shrubs over *Westringia cephalantha* var. *cephalantha* scattered shrubs over *Triodia rigidissima* very open hummock grassland
Veg Condition: Excellent - signs of rabbits and horses
Fire Age: Very long unburnt
Notes: Very slow runoff. 7% leaf litter cover, 86% bare ground. <1% dead wood on ground/ dead standing timber, 22% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia colletioides</i>	0.1%	250cm
<i>Aristida contorta</i>	0.1%	20cm
<i>Austrostipa elegantissima</i>	0.1%	45cm
<i>Austrostipa nodosa</i>	0.1%	70cm
<i>Calotis hispidula</i>	0.1%	4cm
<i>Ceratogyne obionoides</i>	0.1%	6cm
<i>Comesperma integerrimum</i>	0.1%	120cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	70cm
<i>Eremophila caperata</i>	0.5%	230cm
<i>Eucalyptus concinna</i>	3%	500cm
<i>Eucalyptus formanii</i>	6%	750cm
<i>Gnephosis tenuissima</i>	0.1%	2cm
<i>Monachather paradoxus</i>	0.1%	20cm
<i>Olearia exiguifolia</i>	0.1%	35cm
<i>Olearia muelleri</i>	0.1%	40cm
<i>Olearia pimeleoides</i>	0.1%	50cm
<i>Podolepis capillaris</i>	0.1%	15cm
<i>Ptilotus drummondii</i>	0.1%	30cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	0.1%	50cm
<i>Scaevola</i> ? <i>spinescens</i>	0.1%	220cm
<i>Stylidium dielsianum</i>	0.1%	2cm
<i>Thysanotus patersonii</i>	0.1%	60cm
<i>Triodia rigidissima</i>	12%	25cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	15cm
<i>Westringia cephalantha</i> var. <i>cephalantha</i>	0.5%	140cm

Deception Deposit Flora Site: DEC57

Described by: PCPL **Date:** 29/09/2010 **Type:** Q20x20m
MGA Zone: 50 719163 mE 6675294 mN
Habitat: Flat plain
Soil: Orange-brown loam with continuous coarse fragments on surface, very abundant (>90%) fine gravel/small pebbles to cobbles, sub-angular to angular; surface crust
Rock Type: No bedrock exposed
Vegetation: *Allocasuarina dielsiana*, *Eremophila oldfieldii* subsp. *angustifolia*, *Acacia cockertoniana*, *Acacia ramulosa* var. *ramulosa*, *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Acacia tetragonophylla* tall open shrubland over *Philothea brucei* subsp. *brucei*, *Eremophila clarkei*, *Eremophila latrobei* subsp. *latrobei* scattered shrubs
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: 1% leaf litter cover, 93% bare ground. <1% cryptogam, 1% dead wood on ground/ dead standing timber, 87% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia cockertoniana</i>	1%	250cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	1%	300cm
<i>Acacia tetragonophylla</i>	1%	250cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	1%	220cm
<i>Allocasuarina dielsiana</i>	3%	400cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	15cm
<i>Aristida contorta</i>	0.1%	5cm
<i>Austrodanthonia</i> ? <i>setacea</i>	0.1%	40cm
<i>Austrostipa scabra</i>	0.1%	20cm
<i>Calandrinia eremaea</i>	0.1%	8cm
<i>Calocephalus multiflorus</i>	0.1%	3cm
<i>Chamaexeros macranthera</i>	0.1%	150cm
<i>Comesperma integerrimum</i>	0.1%	twining
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	60cm
<i>Dodonaea rigida</i>	0.1%	100cm
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.1%	30cm
<i>Eremophila clarkei</i>	0.5%	170cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	0.5%	120cm
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	3%	300cm
<i>Goodenia occidentalis</i>	0.1%	12cm

<i>Hakea recurva</i> subsp. <i>recurva</i>	0.1%	250cm
<i>Melaleuca leiocarpa</i>	0.1%	200cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	1%	120cm
<i>Ptilotus drummondii</i>	0.1%	8cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	40cm
<i>Santalum spicatum</i>	0.1%	200cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	80cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	3cm
<i>Solanum nummularium</i>	0.1%	25cm
<i>Spartothamnella teucriiflora</i>	0.1%	80cm
<i>Stenopetalum filifolium</i>	0.1%	20cm
<i>Zygophyllum aurantiacum</i>	0.1%	15cm

Deception Deposit Flora Site: DEC58**Described by:** MMMST **Date:** 29/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 717773 mE 6679749 mN**Habitat:** Flat plain (sandy)**Soil:** Orange-brown loam with patches of loose sand over thin algal crust; very few (<2%) coarse fragments; rounded calcareous nodules (~1cm) and angular ironstone fine gravel/small pebbles to medium gravel/medium pebbles**Rock Type:** No bedrock exposed**Vegetation:** *Eucalyptus salmonophloia* open woodland over *Acacia ramulosa* var. *ramulosa*, (*A. obtecta*) tall open shrubland over *Atriplex stipitata*, *Olearia muelleri*, *Ptilotus obovatus* var. *obovatus* scattered low shrubs to low open shrubland**Veg Condition:** Pristine – Excellent: 2 x **Sonchus oleraceus***Fire Age:** Very long unburnt**Notes:** Very slow runoff. 5% leaf litter cover, 99% bare ground. <1% cover cryptogams / dead wood on ground / dead standing timber, 7% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia</i> ? <i>incurvaneura</i>	0.1%	230cm
<i>Acacia jennerae</i>	0.1%	40-250cm
<i>Acacia obtecta</i>	0.5%	180-250cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	4%	140-300cm
<i>Acacia tetragonophylla</i>	0.1%	170cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	0.1%	170cm
<i>Actinobole uliginosum</i>	0.1%	1cm
<i>Amyema miquelii</i>	0.1%	150cm
<i>Aristida contorta</i>	0.1%	10-20cm
<i>Atriplex stipitata</i>	0.1%	30-50cm
<i>Austrodanthonia</i> ? <i>setacea</i>	0.1%	30cm
<i>Austrostipa elegantissima</i>	0.1%	60-70cm
<i>Austrostipa scabra</i>	0.1%	15cm
<i>Brachyscome ciliaris</i> var. <i>ciliaris</i>	0.1%	5cm
<i>Brachyscome ciliocarpa</i>	0.1%	6cm
<i>Calandrinia eremaea</i>	0.1%	5cm
<i>Calandrinia granulifera</i>	0.1%	1cm
<i>Callitris columellaris</i>	0.1%	700cm
<i>Calocephalus multiflorus</i>	0.1%	3cm
<i>Calotis hispidula</i>	0.1%	4cm
<i>Cephalopterum drummondii</i>	0.1%	2cm
<i>Chthonocephalus pseudevax</i>	0.1%	1cm
<i>Crassula colorata</i> var. <i>colorata</i>	0.1%	3cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	50cm
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>	0.1%	40-240cm
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.1%	70cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	130cm
<i>Eremophila eriocalyx</i>	0.1%	90-140cm
<i>Eriochiton sclerolaenoides</i>	0.1%	5cm
<i>Erodium cygnorum</i>	0.1%	1cm
<i>Eucalyptus salmonophloia</i>	2.5%	1900cm
<i>Exocarpos aphyllus</i>	0.1%	100cm
<i>Goodenia berardiana</i>	0.1%	5cm
<i>Hyalosperma demissum</i>	0.1%	1cm
<i>Maireana georgei</i>	0.1%	50cm
<i>Maireana trichoptera</i>	0.1%	20cm
<i>Maireana triptera</i>	0.1%	50cm
<i>Menkea australis</i>	0.1%	2cm
<i>Monachather paradoxus</i>	0.1%	30cm
<i>Olearia muelleri</i>	0.1%	40-160cm
<i>Olearia pimeleoides</i>	0.1%	50-80cm
<i>Phyllangium sulcatum</i>	0.1%	2cm
<i>Podolepis canescens</i>	0.1%	5cm
<i>Podolepis capillaris</i>	0.1%	15cm
<i>Ptilotus exaltatus</i> var. <i>villosus</i>	0.1%	2cm
<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>	0.1%	10cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	30-50cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	40cm

<i>Rhyncharrhena linearis</i>	0.1%	25cm
<i>Santalum acuminatum</i>	0.1%	350cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	70cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	0.1%	50cm
<i>Sclerolaena diacantha</i>	0.1%	6cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	45-160cm
<i>Solanum lasiophyllum</i>	0.1%	40cm
<i>Solanum nummularium</i>	0.1%	35cm
* <i>Sonchus oleraceus</i>	0.1%	5cm
<i>Spartothamnella</i> sp. Helena & Aurora Range (P.G. Armstrong 155-109) PN	0.1%	10cm
<i>Stenopetalum filifolium</i>	0.1%	30cm
<i>Vittadinia humerata</i>	0.1%	3cm
<i>Wahlenbergia gracilentia</i>	0.1%	2cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	20cm

Deception Deposit Flora Site: DEC59**Described by:** MM/PC **Date:** 30/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 718002 mE 6683105 mN**Habitat:** Flat plain**Soil:** Orange sandy loam with discontinuous coarse fragments on surface, common (10-20%) fine gravel/small pebbles to coarse gravel/large pebbles, rounded to subrounded; surface crust**Rock Type:** No bedrock exposed**Vegetation:** *Allocasuarina acutivalvis* subsp. *acutivalvis*, *Acacia effusifolia*, *Hakea minyma*, *Grevillea obliquistigma* subsp. *obliquistigma* tall open shrubland over *Eremophila forrestii* subsp. *forrestii*, *Philotheca brucei* subsp. *brucei* open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** 5% leaf litter cover, 95% bare ground. <1% cryptogam cover / dead standing timber, 1% dead wood on ground, 15% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia effusifolia</i>	3%	380cm
<i>Acacia longispinea</i>	0.1%	300cm
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	2%	450cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	35cm
<i>Austrostipa elegantissima</i>	0.1%	30cm
<i>Austrostipa scabra</i>	0.1%	30cm
<i>Bellida graminea</i>	0.1%	3.5cm
<i>Calocephalus multiflorus</i>	0.1%	3cm
<i>Ceratogyne obionoides</i>	0.1%	2cm
<i>Comesperma integerrimum</i>	0.1%	twining
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	90cm
<i>Eremophila eriocalyx</i>	0.1%	80cm
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	2.5%	180cm
<i>Gilberta tenuifolia</i>	0.1%	4cm
<i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i>	2%	260cm
<i>Hakea minyma</i>	2%	350cm
<i>Monachather paradoxus</i>	0.1%	30cm
<i>Olearia pimeleoides</i>	0.1%	120cm
<i>Phebalium candiculatum</i>	0.1%	170cm
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1%	180cm
<i>Philotheca tomentella</i>	0.1%	30cm
<i>Podolepis canescens</i>	0.1%	6cm
<i>Prostanthera grylloana</i>	0.1%	55cm
<i>Rhyncharrhena linearis</i>	0.1%	10cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	40cm
<i>Stylidium dielsianum</i>	0.1%	4cm
<i>Thysanotus manglesianus</i>	0.1%	30cm
<i>Trachymene pilosa</i>	0.1%	2cm
<i>Velleia rosea</i>	0.1%	2cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	15cm

Deception Deposit Flora Site: DEC60**Described by:** MMMST **Date:** 29/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 718606 mE 6675483 mN**Habitat:** Lower to mid slope of a low ridge, middle 3rd of landform element; S-facing**Soil:** Orange silty loam with discontinuous ironstone coarse fragments on surface, many (20-50%) medium gravel/medium pebbles to cobbles, sub-rounded to sub-angular; surface crust**Rock Type:** No bedrock exposed; sub-outcropping BIF**Vegetation:** *Casuarina pauper* low woodland over *Acacia cockertoniana*, *A. ramulosa* var. *ramulosa*, *Eremophila oldfieldii* subsp. *angustifolia* tall shrubland over *Dodonaea lobulata* scattered shrubs over *Eremophila clarkei*, *Olearia muelleri*, *Scaevola spinescens* (spiny, fine leaf) scattered low shrubs**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Sow runoff. 45% leaf litter cover, 98% bare ground. <1% cryptogam cover/ dead standing timber, 1% dead wood on ground, 30% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia cockertoniana</i>	8%	400cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	3%	240cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	1%	250cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	25cm
<i>Austrodanthonia</i> ? <i>setacea</i>	0.1%	40cm
<i>Austrostipa elegantissima</i>	0.1%	40cm
<i>Austrostipa scabra</i>	0.1%	30cm
<i>Calocephalus multiflorus</i>	0.1%	3cm
<i>Casuarina pauper</i>	15%	650cm
<i>Comesperma integerrimum</i>	0.1%	130cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	30cm
<i>Dodonaea lobulata</i>	0.5%	180cm
<i>Eremophila clarkei</i>	0.5%	80cm
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	2%	210cm
<i>Maireana georgei</i>	0.1%	35cm
<i>Marsdenia australis</i>	0.1%	60cm
<i>Olearia muelleri</i>	0.5%	70cm
<i>Podolepis canescens</i>	0.1%	10cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	40cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	0.5%	70cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	35cm
<i>Stenopetalum filifolium</i>	0.1%	30cm
<i>Thysanotus manglesianus</i>	0.1%	30cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	20cm
<i>Zygophyllum aurantiacum</i>	0.1%	30cm

Deception Deposit Flora Site: DEC61**Described by:** MM/PC **Date:** 30/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 717642 mE 6679250 mN**Habitat:** Flat plain (sandy)**Soil:** Orange-brown loam with ~continuous surface algal crust and small patches (2-10%) of sub-rounded fine gravel/small pebbles**Rock Type:** No bedrock exposed**Vegetation:** *Eucalyptus salubris* low open woodland over *Eremophila scoparia*, *Acacia ramulosa* var. *ramulosa* scattered tall shrubs over *Maireana triptera*, *Atriplex stipitata* low open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Slow runoff. 4% leaf litter cover, 97% bare ground. <1% cryptogam cover / dead standing timber / dead wood on ground, 8% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	0.5%	250cm
<i>Acacia tetragonophylla</i>	0.1%	100cm
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	0.1%	140cm
<i>Atriplex stipitata</i>	1%	30-50cm
<i>Austrodanthonia</i> ? <i>setacea</i>	0.1%	40cm
<i>Austrostipa elegantissima</i>	0.1%	60cm
<i>Austrostipa scabra</i>	0.1%	20cm
<i>Calotis hispidula</i>	0.1%	3cm
<i>Crassula colorata</i> var. <i>colorata</i>	0.1%	2cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	105-120cm
<i>Eremophila scoparia</i>	0.5%	120-240cm
<i>Eriochiton sclerolaenoides</i>	0.1%	5cm
<i>Erodium cygnorum</i>	0.1%	3cm
<i>Eucalyptus salubris</i>	5%	700-
<i>Maireana georgei</i>	0.1%	35cm
<i>Maireana trichoptera</i>	0.1%	20cm
<i>Maireana triptera</i>	1%	25-50cm
<i>Menkea australis</i>	0.1%	1cm
<i>Monachather paradoxus</i>	0.1%	20cm
<i>Olearia muelleri</i>	0.1%	50cm
<i>Olearia pimeleoides</i>	0.1%	80cm
<i>Ptilotus exaltatus</i> var. <i>villosus</i>	0.1%	20cm
<i>Ptilotus spathulatus</i> forma <i>spathulatus</i>	0.1%	2cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	40cm
<i>Rhyncharrhena linearis</i>	0.1%	20cm
<i>Sclerolaena diacantha</i>	0.1%	10cm
<i>Sclerolaena fusiformis</i>	0.1%	15cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	45-160cm
<i>Solanum nummularium</i>	0.1%	40cm
<i>Zygophyllum aurantiacum</i>	0.1%	50cm

Deception Deposit Flora Site: DEC62**Described by:** MSTPL **Date:** 30/09/2010 **Type:** Quadrat 50x50m**MGA Zone:** 50 717957 mE 6683273 mN**Habitat:** Flat plain**Soil:** Pale brown sandy loam with very few coarse fragments (<2%), fine gravel/small pebbles, rounded; soil firm and hard setting**Vegetation:** *Eucalyptus celastroides* subsp. *celastroides* (*E. loxophleba* subsp. *lissophloia*) scattered tree mallees over *Acacia effusifolia* (*Grevillea obliquistigma* subsp. *obliquistigma*, *Acacia ramulosa* var. *ramulosa*, *Allocasuarina acutivalvis* subsp. *prinsepiana*) tall open shrubland over *Phebalium canaliculatum* open shrubland over *Olearia humilis*, *Philotheca brucei* subsp. *brucei* low open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** 4% leaf litter cover, 86% bare ground. <1% cryptogam cover/ dead standing timber, 1% dead wood on ground, 14% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia effusifolia</i>	8%	250cm
<i>Acacia</i> ? <i>incurvaneura</i> x <i>mulganeura</i>	0.1%	220cm
<i>Acacia obtecta</i>	0.1%	230cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	1%	300cm
<i>Acacia tetragonophylla</i>	0.1%	300cm
<i>Allocasuarina acutivalvis</i> subsp. <i>prinsepiana</i>	0.1%	320cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	25cm
<i>Aristida contorta</i>	0.1%	10cm
<i>Austrostipa elegantissima</i>	0.1%	35cm
<i>Brachychiton gregorii</i>	0.1%	220cm
<i>Callitris columellaris</i>	0.1%	900cm
<i>Calocephalus multiflorus</i>	0.1%	3cm
<i>Comesperma integerrimum</i>	0.1%	150cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	90cm
<i>Eremophila clarkei</i>	0.1%	200cm
<i>Eremophila eriocalyx</i>	0.1%	80cm
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	0.1%	180cm
<i>Eremophila granitica</i>	0.1%	130cm
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	1%	900cm
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	0.5%	900cm
<i>Gilberta tenuifolia</i>	0.1%	4cm
<i>Goodenia occidentalis</i>	0.1%	4cm
<i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i>	1%	220cm
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.1%	130cm
<i>Monachather paradoxus</i>	0.1%	30cm
<i>Olearia humilis</i>	0.5%	90cm
<i>Olearia muelleri</i>	0.1%	40cm
<i>Olearia pimeleoides</i>	0.1%	140cm
<i>Phebalium canaliculatum</i>	2%	160cm
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1%	90cm
<i>Philotheca tomentella</i>	0.1%	80cm
<i>Prostanthera grylloana</i>	0.1%	100cm
<i>Psydrax suaveolens</i>	0.1%	230cm
<i>Ptilotus drummondii</i>	0.1%	30cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	40cm
<i>Rhyncharrhena linearis</i>	0.1%	20cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	180cm
<i>Thysanotus manglesianus</i>	0.1%	60cm
<i>Triodia tomentosa</i>	0.1%	40cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	5cm

Deception Deposit Flora Site: DEC63**Described by:** MSTPL **Date:** 30/09/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 717506 mE 6678340 mN**Habitat:** Flat plain**Soil:** Red-brown silty loam with no coarse fragments; soil firm and hard-setting**Vegetation:** *Acacia ramulosa* var. *ramulosa*, *A. ? incurvaneura* tall open shrubland over *Austrostipa eremophila* very open grassland**Veg Condition:** Excellent; some grazing by stock**Fire Age:** Very long unburnt**Notes:** 5% leaf litter cover, 81% bare ground. <1% cryptogam cover, 1% dead wood on ground / dead standing timber, 11% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia</i> ? <i>incurvaneura</i>	3%	700cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	5%	300cm
<i>Anthosachne scaber</i>	0.1%	40cm
<i>Aristida contorta</i>	0.1%	10cm
<i>Austrostipa elegantissima</i>	0.1%	40cm
<i>Austrostipa eremophila</i>	3%	90cm
<i>Brachyscome ciliaris</i> var. <i>ciliaris</i>	0.1%	3cm
<i>Brachyscome ciliocarpa</i>	0.1%	4cm

<i>Calandrinia eremaea</i>	0.1%	10cm
<i>Cephalopterum drummondii</i>	0.1%	3cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1%	10cm
<i>Chthonocephalus pseudevax</i>	0.1%	flat
<i>Crassula colorata</i> var. <i>acuminata</i>	0.1%	2cm
<i>Daucus glochidiatus</i>	0.1%	45cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	90cm
<i>Enchylaena lanata</i>	0.1%	30cm
<i>Eremophila eriocalyx</i>	0.1%	120cm
<i>Erodium cygnorum</i>	0.1%	8cm
<i>Monachather paradoxus</i>	0.1%	30cm
<i>Nicotiana rotundifolia</i>	0.1%	3cm
<i>Nicotiana</i> sp.	0.1%	50cm
<i>Olearia humilis</i>	0.1%	40cm
<i>Phyllangium sulcatum</i>	0.1%	8cm
<i>Plantago debilis</i>	0.1%	5cm
<i>Podolepis canescens</i>	0.1%	10cm
<i>Podolepis lessonii</i>	0.1%	8cm
<i>Prostanthera campbellii</i> x <i>althoferi</i>	0.1%	50cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	40cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	40cm
<i>Sclerolaena diacantha</i>	0.1%	9cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	140cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	10cm
<i>Solanum ellipticum</i>	0.1%	20cm
<i>Solanum nummularium</i>	0.1%	40cm
<i>Stenopetalum filifolium</i>	0.1%	40cm
<i>Thysanotus speckii</i>	0.1%	4cm
<i>Trachymene pilosa</i>	0.1%	2cm
<i>Velleia rosea</i>	0.1%	5cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	10cm

Deception Deposit Flora Site: DEC64**Described by:** PCPL **Date:** 1/12/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 720409 mE 6696370 mN**Habitat:** Upper slope of ironstone ridge (N-S), sloping moderately to west; top and middle third of landform element**Soil:** Orange-brown loam with continuous coarse fragments on surface, extremely abundant (>90%) medium gravel/medium pebbles to stones, sub-angular to angular; soil is firm**Rock Type:** Ironstone; rocky (10-20% rock outcrop)**Vegetation:** *Acacia cockertoniana*, (*Melaleuca leiocarpa*, *Calycopeplus paucifolius*) tall open shrubland over *Philothea brucei* subsp. *brucei* scattered shrubs**Veg Condition:** Excellent**Fire Age:** Very long unburnt**Notes:** *M. leiocarpa* dominant in surrounding vegetation. <1% leaf litter cover, 81.5% bare ground. <1% cryptogam cover, 1% dead wood on ground and dead standing timber, 8.5% total PFC**SPECIES LIST:**

	Cover	Height
<i>Acacia cockertoniana</i>	4%	400cm
<i>Acacia mulganeura</i>	0.5%	100cm
<i>Alyxia buxifolia</i>	0.1%	170cm
<i>Calycopeplus paucifolius</i>	1%	250cm
<i>Chamaexeros macranthera</i>	0.1%	20cm
<i>Eremophila clarkei</i>	0.1%	160cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	0.5%	150cm
<i>Hakea recurva</i> subsp. <i>recurva</i>	0.1%	200cm
<i>Melaleuca leiocarpa</i>	1.5%	300cm
<i>Monachather paradoxus</i>	0.1%	5cm
<i>Olearia humilis</i>	0.1%	40cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	1%	150cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	40cm
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)	0.1%	3cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	7cm

Deception Deposit Flora Site: DEC65**Described by:** MM/BE **Date:** 1/12/2010 **Type:** Quadrat 20x20m**MGA Zone:** 50 720220 mE 6695964 mN**Habitat:** Upper-mid slope of low stony rise (duricrust), gentle slope to W (3 degrees); middle third of landform element**Soil:** Tan fine silty loam, skeletal, with discontinuous surface mantle of very abundant (50-90%) coarse fragments on surface, fine gravel/small pebbles to coarse gravel/large pebbles (all duricrust), angular to sub-angular; soil is loose**Rock Type:** Rockland (>50% rock outcrop); sub-outcropping weathered duricrust**Vegetation:** *Allocasuarina acutivalvis* tall open shrubland over *Melaleuca leiocarpa* (*Acacia cockertoniana*) open shrubland over *Mirbelia microphylla* scattered low shrubs over *Chamaexeros macranthera* scattered herbs**Veg Condition:** Excellent - rabbit scats, minimal signs of grazing (on *Mirbelia*)

Fire Age: Very long unburnt
Notes: Conditions dry; some unidentifiable other annual spp present. Elevation 509m. Rapid to very rapid runoff. 4% leaf litter cover, 94% bare ground. 20% cryptogam cover, 1% dead wood on ground, 10% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia cockertoniana</i>	1%	(40)190cm
<i>Allocasuarina acutivalvis</i>	2.5%	140-220cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	20cm
<i>Calocephalus multiflorus</i>	0.1%	3cm
<i>Chamaexeros macranthera</i>	0.1%	30cm
<i>Comesperma integerrimum</i>	0.1%	110cm
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.1%	40cm
<i>Melaleuca leiocarpa</i>	8%	70-
<i>Mirbelia microphylla</i>	0.1%	40-
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.1%	75cm

Deception Deposit Flora Site: DEC66

Described by: PCPL **Date:** 1/12/2010 **Type:** Quadrat 20x20m
MGA Zone: 50 720175 mE 6696357 mN
Habitat: Crest of small duricrust outcrop
Soil: Pale orange loamy clay with very abundant (>90%) coarse fragments on surface, fine gravel to stones, sub-angular to angular; soil is loose
Rock Type: Duricrust; very slightly rocky at surface (<2%), sub-outcropping weathered duricrust
Vegetation: *Melaleuca hamata* tall open shrubland
Veg Condition: Excellent
Fire Age: Very long unburnt
Notes: Extremely species poor. 1% leaf litter cover, 92% bare ground. <1% cryptogam cover, 1% dead wood on ground, 0.5% dead standing timber, 8% total PFC

SPECIES LIST:	Cover	Height
<i>Erymophyllum ramosum</i> subsp. <i>ramosum</i>	0.1%	7cm
<i>Melaleuca hamata</i>	8%	400cm
<i>Sclerolaena fusiformis</i>	0.1%	3cm

Deception Deposit Flora Site: DEC67

Described by: MM/BE **Date:** 1/12/2010 **Type:** Quadrat 10x15m
MGA Zone: 50 720391 mE 6695946 mN
Habitat: Mid and lower slope of ironstone ridge; middle third of landform element
Soil: Orange-brown fine silty clay loam with discontinuous surface mantle of abundant (50-90%) ironstone coarse fragments, medium gravel/medium pebbles to stones, angular to sub-angular; surface crust
Rock Type: Very rocky (20-50%), sub-outcropping BIF
Vegetation: *Ptilotus obovatus* var. *obovatus* low shrubland
Veg Condition: Excellent to Very Good - some **Pentaschistis* present
Fire Age: Very long unburnt
Notes: Species poor. Quadrat size adjusted to fit narrow band of *Ptilotus* heath. Rapid to very rapid runoff. 10% leaf litter cover, 85% bare ground. 60% cryptogam cover, <1% dead standing timber, 25% total PFC

SPECIES LIST:	Cover	Height
<i>Alyxia buxifolia</i>	0.1%	70cm
<i>Austrostipa elegantissima</i>	0.1%	30cm
<i>Austrostipa tenuifolia</i>	0.1%	60cm
<i>Crassula colorata</i> var. <i>acuminata</i>	0.1%	5cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	50cm
<i>Lemooria burkittii</i>	0.1%	1cm
<i>Lepidium oxytrichum</i>	0.1%	25cm
<i>*Pentaschistis airoides</i> subsp. <i>airoides</i>	0.1%	6cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.1%	40cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	25%	30-60cm
<i>Senecio glossanthus</i>	0.1%	30cm
<i>Solanum lasiophyllum</i>	0.1%	50cm

Deception Deposit Flora Site: DEC68

Described by: PCPL **Date:** 2/12/2010 **Type:** Quadrat 50x50m
MGA Zone: 50 718926 mE 6696087 mN
Habitat: Flat plain
Soil: Orange-red clay with very few (<2%) coarse fragments, fine gravel/small pebbles, sub-angular to angular; soil is hard setting
Vegetation: *Eucalyptus salubris* woodland over *Eremophila scoparia* scattered tall shrubs over *Atriplex vesicaria* low open shrubland
Veg Condition: Excellent - some cow scats
Fire Age: Very long unburnt
Notes: 25% leaf litter cover, 75.5% bare ground. 3% cryptogam cover, <1% dead wood on ground, 1-2% dead standing timber, 25.5% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia tetragonophylla</i>	0.1%	100cm
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	0.1%	170cm
<i>Atriplex vesicaria</i>	5%	40cm
<i>Austrostipa elegantissima</i>	0.1%	40cm
<i>Ceratogyne obionoides</i>	0.1%	5cm
<i>Crassula colorata</i> var. <i>colorata</i>	0.1%	1cm
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	0.1%	30cm
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	0.1%	120cm
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	0.1%	200cm
<i>Eremophila scoparia</i>	0.5%	280cm
<i>Erymophyllum ramosum</i> subsp. <i>ramosum</i>	0.1%	10cm
<i>Eucalyptus salubris</i>	20%	1400cm
<i>Exocarpos aphyllus</i>	0.1%	200cm
<i>Frankenia</i> sp. 1 (pending further determination)	0.1%	30cm
<i>Gunniopsis</i> sp.	0.1%	1cm
<i>Lemooria burkittii</i>	0.1%	prostrate
<i>Maireana georgei</i>	0.1%	30cm
<i>Maireana tomentosa</i>	0.1%	10cm
<i>Phyllangium sulcatum</i>	0.1%	7cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	30cm
<i>Rhagodia</i> ? <i>drummondii</i>	0.1%	40cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	130cm
<i>Sclerolaena diacantha</i>	0.1%	10cm
<i>Sclerolaena fusiformis</i>	0.1%	8cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	0.1%	40cm

Deception Deposit Flora Site: DEC69

Described by: PCPL **Date:** 2/12/2010 **Type:** Quadrat 20x20m
MGA Zone: 50 720967 mE 6696145 mN
Habitat: Gently sloping plain SE
Soil: Pale orange clay with abundant (50-90%) ironstone coarse fragments on surface, medium gravel/medium pebbles, rounded to sub-rounded; soil with surface crust and hard setting
Rock Type: Ironstone
Vegetation: *Acacia effusifolia* (*Melaleuca hamata*) tall shrubland over *Baeckea elderiana* open shrubland
Veg Condition: Excellent
Fire Age: Very long unburnt
Notes: 20% leaf litter cover, 69 % bare ground. 20% cryptogam cover, 1% dead standing timber/ dead wood on ground, 29% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia effusifolia</i>	20%	350cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	0.25cm
<i>Baeckea elderiana</i>	8%	160cm
<i>Calocephalus multiflorus</i>	0.1%	2cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	100cm
<i>Eremophila clarkei</i>	0.1%	45cm
<i>Goodenia occidentalis</i>	0.1%	8cm
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.1%	130cm
<i>Melaleuca hamata</i>	0.1%	500cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.1%	80cm
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1%	80cm

Deception Deposit Flora Site: DEC70

Described by: PCPL **Date:** 2/12/2010 **Type:** Quadrat 20x20m
MGA Zone: 50 720408 mE 6696345 mN
Habitat: Mid-slope of SW-facing ridge slope
Soil: Orange loam with discontinuous coarse fragments on surface, extremely abundant (>90%) medium gravel to stones, sub-angular to angular; soil is hard setting
Rock Type: Rocky (10-20% rock outcrop), semi-outcropping ironstone
Vegetation: *Callitris columellaris* scattered low trees over *Melaleuca leiocarpa*, (*Hakea recurva*) tall open shrubland over *Exocarpos aphyllus*, *Philothea brucei* subsp. *brucei* open shrubland
Veg Condition: Excellent
Fire Age: Very long unburnt
Notes: 1% leaf litter cover, 94% bare ground. 2% cryptogam cover, <1% dead wood on ground/ dead standing timber, 7% total PFC

SPECIES LIST:	Cover	Height
<i>Acacia andrewsii</i>	0.1%	50cm
<i>Acacia cockertoniana</i>	0.1%	300cm
<i>Acacia</i> ? <i>incurvaneura</i>	0.1%	380cm
<i>Acacia mulganeura</i>	0.1%	250cm
<i>Acacia tetragonophylla</i>	0.1%	170cm
<i>Alyxia buxifolia</i>	0.1%	200cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.1%	10cm
<i>Callitris columellaris</i>	1%	400cm
<i>Chamaexeros macranthera</i>	0.1%	10cm

<i>Dodonaea rigida</i>	0.1%	140cm
<i>Eremophila clarkei</i>	0.1%	160cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	0.1%	100cm
<i>Exocarpos aphyllus</i>	1%	140cm
<i>Hakea recurva</i> subsp. <i>recurva</i>	0.5%	250cm
<i>Melaleuca leiocarpa</i>	4%	280cm
<i>Monachather paradoxus</i>	0.1%	40cm
<i>Olearia humilis</i>	0.1%	20cm
<i>Philotheca brucei</i> subsp. <i>brucei</i>	1%	160cm
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	0.1%	40cm
<i>Scaevola spinescens</i> (broad leaf, non-spiny form)	0.1%	130cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	0.1%	15cm
<i>Stenopetalum filifolium</i>	0.1%	10cm

Deception Deposit Flora Site: DEC71

Described by	BEJWM	Date	12/04/2011	Type	Quadrat 20m x 20m
MGA Zone	50	719274 mE	6697092 mN		
Habitat	Low rise; slope 3 degrees				
Soil	Yellow-orange sandy loam;				
Rock Type	Weathered duricrust				
Vegetation	<i>Acacia cockertoniana</i> , (<i>Acacia</i> sp. narrow phyllode, <i>A. ramulosa</i> var. <i>ramulosa</i> , <i>A. tetragonophylla</i>) tall shrubland over <i>Philotheca brucei</i> subsp. <i>brucei</i> , (<i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Dodonaea rigida</i>) open shrubland				
Veg Condition	Pristine				
Fire Age	Very long unburnt				

SPECIES LIST:

	Cover	Height
<i>Acacia cockertoniana</i>	7%	450cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	2%	400cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	3%	350cm
<i>Acacia tetragonophylla</i>	1.5%	450cm
<i>Allocasuarina dielsiana</i>	1%	500cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<0.1%	15cm
<i>Austrostipa elegantissima</i>	<0.1%	20cm
<i>Brachychiton gregorii</i>	1%	300cm
<i>Calocephalus multiflorus</i>	<0.1%	4cm
<i>Comesperma integerrimum</i>	<0.1%	120cm
<i>Dodonaea rigida</i>	1.5%	170cm
<i>Eremophila clarkei</i>	0.2%	160cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	2.5%	150cm
<i>Hakea recurva</i> subsp. <i>recurva</i>	1%	300cm
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.3%	140cm
<i>Philotheca brucei</i> subsp. <i>brucei</i>	7%	160cm
<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>	0.5%	60cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	1%	140cm

Deception Deposit Flora Site: DEC72

Described by	BEJWM	Date	12/04/2011	Type	Quadrat 20m x 20m
MGA Zone	50	719818 mE	6697322 mN		
Habitat	Low rise with outcropping BIF				
Soil	Yellow-orange sandy loam				
Rock Type	BIF and weathered duricrust				
Vegetation	<i>Acacia cockertoniana</i> tall open shrubland over <i>Melaleuca leiocarpa</i> open shrubland over <i>Philotheca brucei</i> subsp. <i>brucei</i> low open shrubland				
Veg Condition	Pristine				
Fire Age	Very long unburnt				

SPECIES LIST:

	Cover	Height
<i>Acacia cockertoniana</i>	2%	250cm
<i>Allocasuarina acutivalvis</i>	1.5%	300cm
<i>Alyxia buxifolia</i>	<0.1%	40cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<0.1%	20cm
<i>Austrostipa elegantissima</i>	<0.1%	40cm
<i>Chamaexeros macranthera</i>	0.25%	30cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	<0.1%	15cm
<i>Comesperma integerrimum</i>	<0.1%	100cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	<0.1%	70cm
<i>Eremophila clarkei</i>	<0.1%	180cm
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	<0.1%	5cm
<i>Exocarpos aphyllus</i>	<0.1%	120cm
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.25%	90cm
<i>Melaleuca leiocarpa</i>	4%	180cm
<i>Mirbelia microphylla</i>	0.25%	80cm
<i>Monachather paradoxus</i>	<0.1%	10cm

<i>Philothea brucei</i> subsp. <i>brucei</i>	2.5%	100cm
<i>Pilotus obovatus</i> var. <i>obovatus</i>	0.75%	40cm
<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)	<0.1%	20cm
<i>Tripogon loliiformis</i>	<0.1%	20cm

Deception Deposit Flora Site: DEC73

Described by	BEJWM	Date	13/04/2011	Type	Quadrat 20m x 20m
MGA Zone	50	mE	719998	mN	6696673
Habitat	Low duricrust rise				
Soil	Orange sandy loam				
Rock Type	Weathered duricrust				
Vegetation	<i>Melaleuca hamata</i> tall shrubland				
Veg Condition	Pristine				
Fire Age	Very long unburnt				

SPECIES LIST:	Cover	Height
<i>Erymophyllum ramosum</i> subsp. <i>ramosum</i>	<0.1%	10cm
<i>Melaleuca hamata</i>	1.5%	550cm
<i>Scaevola spinescens</i> (spiny, fine leaf)	<0.1%	100cm
<i>Sclerolaena fusiformis</i>	<0.1%	10cm

Deception Deposit Flora Site: DEC74

Described by	BEJWM	Date	13/04/2011	Type	Quadrat 20m x 20m
MGA Zone	50	mE	720988	mN	6696407
Habitat	Gravelly plain, east of main ridge				
Soil	Orange sandy clay loam				
Rock Type	Ironstone gravel; BIF and duricrust derived				
Vegetation	<i>Acacia effusifolia</i> tall shrubland				
Veg Condition	Pristine				
Fire Age	Very long unburnt				

SPECIES LIST:	Cover	Height
<i>Acacia effusifolia</i>	20%	350cm
<i>Austrostipa scabra</i>	<0.1%	20cm
<i>Calocephalus multiflorus</i>	<0.1%	5cm
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	<0.1%	15cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.1%	70cm
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	0.1%	100cm
<i>Eucalyptus ewartiana</i>	0.5%	350cm
<i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i>	1%	400cm
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	0.75%	120cm
<i>Melaleuca hamata</i>	0.75%	600cm
<i>Monachather paradoxus</i>	<0.1%	20cm
<i>Philothea brucei</i> subsp. <i>brucei</i>	0.1%	130cm
<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)	<0.1%	10cm

Deception Deposit Flora Site: DEC75

Described by	BEJWM	Date	13/04/2011	Type	Quadrat 50m x 50m
MGA Zone	50	mE	718159	mN	6690983
Habitat	Sandy flats				
Soil	Orange-brown loamy sand				
Vegetation	<i>Eucalyptus corrugata</i> , <i>E. formanii</i> low open woodland over <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831), <i>A. colletioides</i> tall open shrubland over <i>Olearia muelleri</i> scattered low shrubs over <i>Triodia tomentosa</i> very open hummock grassland				
Veg Condition	Pristine				
Fire Age	Very long unburnt				

SPECIES LIST:	Cover	Height
<i>Acacia caesaneura</i> (narrow phyllode variant)	<0.1%	160cm
<i>Acacia colletioides</i>	1.25%	250cm
<i>Acacia obtecta</i>	0.1%	150cm
<i>Acacia prainii</i>	<0.1%	20cm
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	0.1%	450cm
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	1%	350cm
<i>Acacia tetragonophylla</i>	<0.1%	150cm
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<0.1%	20cm
<i>Austrostipa elegantissima</i>	<0.1%	40cm
<i>Bossiaea walkeri</i>	<0.1%	130cm
<i>Callitris columellaris</i>	<0.1%	600cm
<i>Cryptandra connata</i>	<0.1%	40cm
<i>Dianella revoluta</i> var. <i>divaricata</i>	<0.1%	70cm
<i>Eremophila caperata</i>	<0.1%	250cm

<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<0.1%	100cm
<i>Eucalyptus corrugata</i>	3%	900cm
<i>Eucalyptus formanii</i>	2.5%	900cm
<i>Eucalyptus longissima</i>	0.2%	600cm
<i>Exocarpos aphyllus</i>	<0.1%	150cm
<i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i>	<0.1%	180cm
<i>Maireana georgei</i>	<0.1%	15cm
<i>Maireana tomentosa</i>	<0.1%	10cm
<i>Monachather paradoxus</i>	<0.1%	40cm
<i>Olearia exiguifolia</i>	<0.1%	20cm
<i>Olearia muelleri</i>	1.5%	70cm
<i>Olearia pimeleoides</i>	<0.1%	80cm
<i>Podolepis capillaris</i>	<0.1%	20cm
<i>Ptilotus drummondii</i>	<0.1%	40cm
<i>Ptilotus exaltatus</i> var. <i>villosus</i>	<0.1%	30cm
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	<0.1%	120cm
<i>Triodia tomentosa</i>	2%	50cm

Deception Deposit Flora Site: DEC-R01**Described by:** MM/BE **Date:** 18/10/2010 **Type:** Relevé**MGA Zone:** 50 719088 **mE** 6694955 **mN****Habitat:** Mid-slope of low BIF rise, slope 5 degrees**Soil:** Red/orange sandy loam with surface layer of discontinuous ironstone lag gravel, angular to sub-angular coarse fragments 2-150 mm diameter; lichen and cryptogamic crust in patches (focused beneath vegetation, also on outcropping BIF)**Rock Type:** Some outcropping BIF**Vegetation:** *Acacia cockertoniana*, *A. ramulosa* var. *ramulosa* tall shrubland over *Philotheca brucei* subsp. *brucei*, *Eremophila clarkei*, *Dodonaea rigida* shrubland over *Olearia humilis* low open shrubland**Veg Condition:** Pristine - Excellent: **Pentaschistis airoides* present**Fire Age:** Very long unburnt**SPECIES LIST:**

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>
<i>Acacia cockertoniana</i>	<i>Erodium cygnorum</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Hakea recurva</i> subsp. <i>recurva</i>
<i>Acacia tetragonophylla</i>	<i>Olearia humilis</i>
<i>Allocasuarina dielsiana</i>	* <i>Pentaschistis airoides</i> subsp. <i>airoides</i>
<i>Austrostipa elegantissima</i>	<i>Philotheca brucei</i> subsp. <i>brucei</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>
<i>Brachychiton gregorii</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Cheilanthes adiantoides</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Comesperma integerrimum</i>	<i>Stenopetalum filifolium</i>
<i>Dodonaea rigida</i>	<i>Thysanotus manglesianus</i>
<i>Eremophila clarkei</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>

Deception Deposit Flora Site: DEC-R02**Described by:** MM/BE **Date:** 18/10/2010 **Type:** Relevé**MGA Zone:** 50 719107 **mE** 6695022 **mN****Habitat:** Debris slope of low BIF outcrop; north-facing slope of 11 degrees.**Soil:** Red/orange sandy loam with surface layer of debris and outcrop ironstone, angular to sub-angular content 2-500mm diameter; lichens on rocks**Vegetation:** *Ptilotus obovatus* var. *obovatus* low shrubland over *Monachather paradoxus* scattered tussock grasses and *Cheilanthes brownii* scattered ferns**Veg Condition:** Pristine**Fire Age:** Very long unburnt**SPECIES LIST:**

<i>Acacia tetragonophylla</i>	<i>Eremophila clarkei</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Hakea recurva</i> subsp. <i>recurva</i>
<i>Brachychiton gregorii</i>	<i>Marsdenia australis</i>
<i>Cheilanthes brownii</i>	<i>Monachather paradoxus</i>
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	<i>Parietaria cardiostegia</i>
<i>Crassula colorata</i> var. <i>acuminata</i>	<i>Philotheca brucei</i> subsp. <i>brucei</i>
<i>Dodonaea rigida</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Enchylaena lanata</i>	<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)
<i>Enneapogon caerulescens</i>	

Deception Deposit Flora Site: DEC-R03**Described by:** MM/BE **Date:** 18/10/2010 **Type:** Relevé**MGA Zone:** 50 718672 **mE** 6694767 **mN****Habitat:** Broad drainage slope; sloping away from base of low BIF rise; slope 2 degrees**Soil:** Red/brown sandy clay loam with a surface layer of discontinuous ironstone lag gravel, sub-angular to subrounded coarse fragments 2-30mm diameter**Vegetation:** *Eucalyptus salubris* low open woodland over *Eremophila scoparia* scattered tall shrubs over *Atriplex stipitata* low open shrubland over *Sclerolaena fusiformis*, *S. diacantha* very open herbland

Veg Condition: Pristine
Fire Age: Very long unburnt

SPECIES LIST:

<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Eucalyptus salubris</i>
<i>Aristida contorta</i>	<i>Maireana georgei</i>
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	<i>Maireana trichoptera</i>
<i>Atriplex stipitata</i>	<i>Olearia muelleri</i>
<i>Austrostipa platychaeta</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Eremophila caperata</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Sclerolaena diacantha</i>
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	<i>Sclerolaena fusiformis</i>
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Eremophila scoparia</i>	<i>Westringia cephalantha</i> var. <i>cephalantha</i>
<i>Erymophyllum ramosum</i> subsp. <i>ramosum</i>	

Deception Deposit Flora Site: DEC-R04

Described by: MM/BE **Date:** 18/10/2010 **Type:** Relevé
MGA Zone: 50 718452 mE 6694893 mN
Habitat: Broad valley floor, slope 1 degree
Soil: Red/orange sandy clay loam with surface layer of discontinuous ironstone lag gravel, sub-angular to sub-rounded coarse fragments 2-30 mm diameter
Vegetation: *Acacia* ? *incurvaneura*, *A. ramulosa* var. *ramulosa*, *A. tetragonophylla* tall shrubland over *Waitzia acuminata* var. *acuminata*, *Stenopetalum filifolium* very open herbland with *Austrostipa* ? *scabra* scattered tussock grasses
Veg Condition: Pristine
Fire Age: Very long unburnt

SPECIES LIST:

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Eremophila metallicorum</i>
<i>Acacia</i> ? <i>incurvaneura</i>	<i>Giluthia osbornei</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Hakea recurva</i> subsp. <i>recurva</i>
<i>Acacia tetragonophylla</i>	<i>Monachather paradoxus</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Olearia humilis</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Philothea brucei</i> subsp. <i>brucei</i>
<i>Austrostipa platychaeta</i>	<i>Ptilotus drummondii</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Cheilanthes adiantoides</i>	<i>Spartothamnella teucriflora</i>
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	<i>Stenopetalum filifolium</i>
<i>Comesperma integerrimum</i>	<i>Thysanotus manglesianus</i>
<i>Cryptandra connata</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	

Deception Deposit Flora Site: DEC-R05

Described by: MM/BE **Date:** 18/10/2010 **Type:** Relevé
MGA Zone: 50 718491 mE 6695308 mN
Habitat: Undulating flat, slope 2 degrees
Soil: Red/brown sandy clay loam with surface layer of ironstone lag gravel (continuous in most places continuous, sometimes discontinuous); sub-angular to sub-rounded coarse fragments 2-20 mm diameter
Vegetation: *Eucalyptus salubris* open woodland over *Eremophila scoparia*, *Atriplex nummularia* subsp. *spathulata* scattered tall shrubs over *Atriplex stipitata*, *Acacia erinacea* low open shrubland over *Sclerolaena diacantha*, *S. fusiformis* very open herbland
Veg Condition: Pristine
Fire Age: Very long unburnt

SPECIES LIST:

<i>Acacia erinacea</i>	<i>Maireana georgei</i>
<i>Acacia tetragonophylla</i>	<i>Maireana trichoptera</i>
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	<i>Olearia muelleri</i>
<i>Atriplex stipitata</i>	<i>Ptilotus exaltatus</i> var. <i>villosus</i>
<i>Atriplex vesicaria</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Austroanthonia</i> ? <i>setacea</i>	<i>Rhagodia</i> ? <i>drummondii</i>
<i>Austrostipa elegantissima</i>	<i>Santalum spicatum</i>
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Eremophila scoparia</i>	<i>Sclerolaena diacantha</i>
<i>Erymophyllum ramosum</i> subsp. <i>ramosum</i>	<i>Sclerolaena fusiformis</i>
<i>Eucalyptus salubris</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Exocarpos aphyllus</i>	

Deception Deposit Flora Site: DEC-R06**Described by:** MM/BE **Date:** 19/08/2010 **Type:** Relevé**MGA Zone:** 50 718502 mE 6694797 mN**Habitat:** Flat, slope 1 degree**Soil:** Red/orange sandy loam with surface layer of discontinuous ironstone lag gravel, subangular to subrounded coarse fragments 2-20 mm diameter, abundant algal crust, leaf litter focused under vegetation**Vegetation:** *Acacia ramulosa* var. *ramulosa*, *A. sp.* narrow phyllode (B.R. Maslin 7831), *A. tetragonophylla* tall shrubland over *Philotheca brucei* subsp. *brucei* open shrubland over *Eremophila metallicorum* low open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**SPECIES LIST:***Acacia ? incurvaneura**Acacia obtecta**Acacia ramulosa* var. *ramulosa**Acacia tetragonophylla**Acacia sp.* narrow phyllode (B.R. Maslin 7831)*Aristida contorta**Austrodanthonia ? setacea**Austrostipa platychaeta**Austrostipa ? scabra**Brachychiton gregorii**Calocephalus multiflorus**Cheilanthes sieberi* subsp. *sieberi**Comesperma integerrimum**Daucus glochidiatus**Dianella revoluta* var. *divaricata**Dodonaea rigida**Eremophila decipiens* subsp. *decipiens**Eremophila metallicorum**Gilruthia osbornei**Hakea recurva* subsp. *recurva**Philotheca brucei* subsp. *brucei**Plantago debilis**Ptilotus obovatus* var. *obovatus**Rhagodia ? drummondii**Santalum spicatum**Scaevola spinescens* (spiny, fine leaf)*Spartothamnella teucriflora**Stenopetalum filifolium**Thysanotus manglesianus**Waitzia acuminata* var. *acuminata***Deception Deposit Flora Site: DEC-R07****Described by:** MM/BE **Date:** 19/08/2010 **Type:** Relevé**MGA Zone:** 50 718542 mE 6694629 mN**Habitat:** Flats, slope 1 degree**Soil:** Orange/red light clay with a surface layer of discontinuous ironstone lag gravel, quite bare in places; sub-angular to sub-rounded coarse fragments 2-20 mm diameter; algal crust present; considerable leaf litter focused under Eucalypts**Vegetation:** *Eucalyptus longissima* very open tree mallee over *Acacia ramulosa* var. *ramulosa* scattered tall shrubs over *Eremophila clarkei*, *E. decipiens* subsp. *decipiens* open shrubland over *Olearia muelleri*, *Ptilotus obovatus* var. *obovatus* low open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**SPECIES LIST:***Acacia caesaneura* (narrow phyllode variant)*Acacia ramulosa* var. *ramulosa**Acacia tetragonophylla**Acacia sp.* narrow phyllode (B.R. Maslin 7831)*Atriplex nummularia* subsp. *spathulata**Atriplex stipitata**Austrostipa elegantissima**Cryptandra connata**Daviesia purpurascens**Dianella revoluta* var. *divaricata**Eremophila clarkei**Eremophila decipiens* subsp. *decipiens**Eucalyptus longissima**Maireana georgei**Olearia muelleri**Olearia pimeleoides**Philotheca brucei* subsp. *brucei**Psydrax suaveolens**Ptilotus exaltatus* var. *villosus**Ptilotus obovatus* var. *obovatus**Rhagodia ? drummondii**Scaevola spinescens* (spiny, fine leaf)*Sclerolaena diacantha**Senna artemisioides* subsp. *filifolia**Solanum nummularium***Deception Deposit Flora Site: DEC-R08****Described by:** MM/BE **Date:** 19/08/2010 **Type:** Relevé**MGA Zone:** 50 718576 mE 6694011 mN**Habitat:** Flats, slope 1 degree**Soil:** Red/orange sandy clay loam with a surface layer of discontinuous ironstone lag gravel, sub-angular to rounded coarse fragments 2-20 mm diameter; algal crust abundant between lag gravel patches; leaf litter focused beneath vegetation**Vegetation:** *Acacia incurvaneura* x ?, *A. ramulosa* var. *ramulosa* tall shrubland over *Philotheca brucei* subsp. *brucei* open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**SPECIES LIST:***Acacia incurvaneura* x ?*Acacia ? incurvaneura**Acacia obtecta**Acacia ramulosa* var. *ramulosa**Acacia tetragonophylla**Amphipogon caricinus* var. *caricinus**Austrostipa elegantissima**Brachychiton gregorii**Calocephalus multiflorus**Cheilanthes sieberi* subsp. *sieberi*

Cryptandra connata
Dianella revoluta var. *divaricata*
Eremophila eriocalyx
Gilruthia osbornei
Monachather paradoxus

Olearia humilis
Philothea brucei subsp. *brucei*
Prostanthera campbellii
Spartothamnella teucriflora
Thysanotus manglesianus
Waitzia acuminata var. *acuminata*

Deception Deposit Flora Site: DEC-R09

Described by: MM/BE **Date:** 19/08/2010 **Type:** Relevé

MGA Zone: 50 718882 mE 6693972 mN

Habitat: Flats, slope 1 degree

Soil: Red-orange sandy clay loam with a surface layer of discontinuous ironstone lag gravel, sub-angular to sub-rounded coarse fragments 2-50 mm diameter; algal crust between lag gravel patches; leaf litter focused beneath vegetation

Vegetation: *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *A. tetragonophylla* tall shrubland over *Eremophila metallicorum* low open shrubland

Veg Condition: Pristine

Fire Age: Very long unburnt

Notes: *Acacia ramulosa* var. *ramulosa* not dominant here

SPECIES LIST:

<i>Acacia obtecta</i>	<i>Enchylaena lanata</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Eremophila decipiens</i> subsp. <i>decipiens</i>
<i>Acacia tetragonophylla</i>	<i>Eremophila metallicorum</i>
<i>Allocasuarina dielsiana</i>	<i>Exocarpos aphyllus</i>
<i>Alyxia buxifolia</i>	<i>Olearia muelleri</i>
<i>Austrostipa platychaeta</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	<i>Rhagodia</i> ? <i>drummondii</i>
<i>Comesperma integerrimum</i>	<i>Santalum spicatum</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Dodonaea rigida</i>	<i>Solanum nummularium</i>

Deception Deposit Flora Site: DEC-R10

Described by: MM/BE **Date:** 19/08/2010 **Type:** Relevé

MGA Zone: 50 719004 mE 6693949 mN

Habitat: Subtle calcrete rise, slope 2 degrees

Soil: Orange/red sandy clay loam with a surface layer of discontinuous ironstone and calcrete lag gravel, angular to sub-rounded coarse fragments 2-60 mm diameter; algal crust between lag gravel; leaf litter focused beneath vegetation

Vegetation: *Casuarina pauper* low open woodland over *Acacia* sp. narrow phyllode (B.R. Maslin 7831) tall open shrubland over *Bossiaea walkeri* open shrubland over *Acacia acanthoclada* subsp. *glaucescens* low shrubland

Veg Condition: Pristine

Fire Age: Very long unburnt

SPECIES LIST:

<i>Acacia acanthoclada</i> subsp. <i>glaucescens</i>	<i>Eremophila metallicorum</i>
<i>Acacia tetragonophylla</i>	<i>Exocarpos aphyllus</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Olearia muelleri</i>
<i>Alyxia buxifolia</i>	<i>Philothea brucei</i> subsp. <i>brucei</i>
<i>Austrostipa elegantissima</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Bossiaea walkeri</i>	<i>Rhagodia</i> ? <i>drummondii</i>
<i>Brachychiton gregorii</i>	<i>Santalum spicatum</i>
<i>Casuarina pauper</i>	<i>Scaevola spinescens</i> (broad leaf, non-spiny form)
<i>Comesperma integerrimum</i>	<i>Sclerolaena fusiformis</i>
<i>Dodonaea rigida</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Zygophyllum aurantiacum</i>
<i>Eremophila eriocalyx</i>	

Deception Deposit Flora Site: DEC-R11

Described by: MM/BE **Date:** 19/08/2010 **Type:** Relevé

MGA Zone: 50 718978 mE 6694195 mN

Habitat: Low rise, slope 2 degrees

Soil: Red/brown sandy loam with a surface layer of virtually continuous ironstone and calcrete lag gravel, sub-angular to sub-rounded coarse fragments 2-20 mm diameter; algal crust between lag gravel; leaf litter beneath vegetation

Vegetation: *Eucalyptus corrugata* woodland over *Senna artemisioides* subsp. *filifolia* scattered shrubs over *Acacia acanthoclada* subsp. *glaucescens*, *Olearia muelleri*, *Ptilotus obovatus* var. *obovatus* low shrubland

Veg Condition: Pristine

Fire Age: Very long unburnt

SPECIES LIST:

<i>Acacia acanthoclada</i> subsp. <i>glaucescens</i>	<i>Acacia cockertoniana</i>
<i>Acacia andrewsii</i>	<i>Acacia ramulosa</i> var. <i>ramulosa</i>
<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Acacia tetragonophylla</i>

<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>
<i>Allocasuarina dielsiana</i>	<i>Eucalyptus corrugata</i>
<i>Alyxia buxifolia</i>	<i>Monachather paradoxus</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Olearia humilis</i>
<i>Austrostipa elegantissima</i>	<i>Olearia muelleri</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Philothea brucei</i> subsp. <i>brucei</i>
<i>Bossiaea walkeri</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Comesperma integerrimum</i>	<i>Santalum spicatum</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Dodonaea lobulata</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Dodonaea rigida</i>	<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Thysanotus manglesianus</i>

Deception Deposit Flora Site: DEC-R12**Described by:** MM/BE **Date:** 19/08/2010 **Type:** Relevé**MGA Zone:** 50 719074 mE 6694324 mN**Habitat:** Undulating flats, slope 1 degree**Soil:** Red/brown sandy loam with surface layer of discontinuous ironstone lag gravel, sub-angular to sub-rounded coarse fragments 2-30 mm diameter; abundant algal crust between lag gravel; leaf litter focused beneath vegetation**Vegetation:** *Eucalyptus corrugata* low open woodland over *E. longissima* very open tree mallee over *Acacia cockertoniana* (*Eremophila clarkei*) tall shrubland over *Philothea brucei* subsp. *brucei* shrubland over *Olearia humilis* low open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**SPECIES LIST:**

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Olearia humilis</i>
<i>Acacia cockertoniana</i>	<i>Olearia muelleri</i>
<i>Acacia mulganeura</i>	<i>Philothea brucei</i> subsp. <i>brucei</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Acacia tetragonophylla</i>	<i>Rhyncharrhena linearis</i>
<i>Austrostipa elegantissima</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Daviesia purpurascens</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)
<i>Eremophila clarkei</i>	<i>Spartothamnella teucriflora</i>
<i>Eucalyptus corrugata</i>	<i>Thysanotus manglesianus</i>
<i>Eucalyptus longissima</i>	

Deception Deposit Flora Site: DEC-R13**Described by:** MM/BE **Date:** 20/08/2010 **Type:** Relevé**MGA Zone:** 50 719220 mE 6694620 mN**Habitat:** Upper slope of low BIF rise, slope 2 degrees**Soil:** Red/orange sandy loam with a surface layer discontinuous ironstone lag gravel angular to sub-rounded coarse fragments 2-60 mm diameter; abundant algal and lichen crust in between lag gravel; soil leaf litter focused beneath vegetation**Vegetation:** *Acacia cockertoniana*, *A. ramulosa* var. *ramulosa*, *A. tetragonophylla*, *Eremophila clarkei* tall shrubland over *Philothea brucei* subsp. *brucei*, *Scaevola spinescens* (narrow leaf spiny form), *Dodonaea rigida* open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**SPECIES LIST:**

<i>Acacia cockertoniana</i>	<i>Dodonaea rigida</i>
<i>Acacia incurvaneura</i> x ?	<i>Eremophila clarkei</i>
<i>Acacia</i> ? <i>incurvaneura</i>	<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Philothea brucei</i> subsp. <i>brucei</i>
<i>Acacia tetragonophylla</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Allocasuarina dielsiana</i>	<i>Rhyncharrhena linearis</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Amyema benthamii</i>	<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)
<i>Aristida contorta</i>	<i>Spartothamnella teucriflora</i>
<i>Austrodanthonia</i> ? <i>setacea</i>	<i>Stenopetalum filifolium</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Thysanotus manglesianus</i>
<i>Brachychiton gregorii</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	

Deception Deposit Flora Site: DEC-R14**Described by:** MM/BE **Date:** 20/08/2010 **Type:** Relevé**MGA Zone:** 50 718415 mE 6695597 mN**Habitat:** Mid-slope of very gentle rise, slope 2 degrees**Soil:** Surface layer of discontinuous ironstone lag gravel, subangular to subrounded coarse fragments 2-40 mm diameter; abundant algal and lichen crusting between lag gravel; leaf litter focused beneath vegetation

Vegetation: *Acacia ramulosa* var. *ramulosa*, *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *A. tetragonophylla* tall shrubland over *Eremophila granitica* open shrubland

Veg Condition: Pristine

Fire Age: Very long unburnt

SPECIES LIST:

<i>Acacia cockertoniana</i>	<i>Eremophila decipiens</i> subsp. <i>decipiens</i>
<i>Acacia obtecta</i>	<i>Eremophila granitica</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Eremophila metallicorum</i>
<i>Acacia tetragonophylla</i>	<i>Grevillea nematophylla</i> subsp. <i>nematophylla</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Olearia muelleri</i>
<i>Alyxia buxifolia</i>	<i>Olearia pimeleoides</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Philotheca brucei</i> subsp. <i>brucei</i>
<i>Aristida contorta</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Austrostipa elegantissima</i>	<i>Rhyncharrhena linearis</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Santalum spicatum</i>
<i>Callitris columellaris</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Calocephalus multiflorus</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Comesperma integerrimum</i>	<i>Thysanotus manglesianus</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>

Deception Deposit Flora Site: DEC-R15

Described by: MM/BE **Date:** 20/08/2010 **Type:** Relevé

MGA Zone: 50 718587 mE 6695812 mN

Habitat: Low outcropping BIF rise, some evidence of calcrete; slope 3 degrees

Soil: Red/brown sandy loam with a surface layer of discontinuous ironstone lag gravel and debris, angular to sub-angular coarse fragments 2-500 mm, some algal crusting between coarse fragments; very little leaf litter except under *Casuarina* trees

Vegetation: *Casuarina pauper* low open woodland over *Acacia andrewsii*, *Bossiaea walkeri*, *Scaevola spinescens* (broad leaf non-spiny form), *Grevillea acuaria* shrubland

Veg Condition: Pristine

Fire Age: Very long unburnt

SPECIES LIST:

<i>Acacia andrewsii</i>	<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>
<i>Acacia colletioides</i>	<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>
<i>Acacia obtecta</i>	<i>Exocarpos aphyllus</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Grevillea acuaria</i>
<i>Alyxia buxifolia</i>	<i>Maireana georgei</i>
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	<i>Olearia muelleri</i>
<i>Austrostipa platychaeta</i>	<i>Rhagodia</i> ? <i>drummondii</i>
<i>Bossiaea walkeri</i>	<i>Scaevola spinescens</i> (broad leaf, non-spiny form)
<i>Cassutha melantha</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Casuarina pauper</i>	<i>Sclerolaena fusiformis</i>
<i>Comesperma integerrimum</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Dodonaea rigida</i>	<i>Solanum nummularium</i>
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	

Deception Deposit Flora Site: DEC-R16

Described by: MM/BE **Date:** 20/08/2010 **Type:** Relevé

MGA Zone: 50 719237 mE 6695795 mN

Habitat: Low outcropping duricrust breakaway, slope 8 degrees

Soil: Red/orange loamy sand; surface not on outcrop is continuous angular to sub-angular detrital material, coarse fragments 2-500mm diameter; lichens on outcrop and larger rocks; leaf litter focused beneath vegetation

Vegetation: *Melaleuca hamata*, *M. leiocarpa*, *Acacia cockertoniana* tall shrubland over *Eremophila latrobei* subsp. *latrobei* open shrubland

Veg Condition: Pristine

Fire Age: Very long unburnt

SPECIES LIST:

<i>Acacia andrewsii</i>	<i>Eremophila clarkei</i>
<i>Acacia cockertoniana</i>	<i>Eremophila latrobei</i> subsp. <i>latrobei</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>
<i>Acacia tetragonophylla</i>	<i>Eremophila scoparia</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Exocarpos aphyllus</i>
<i>Alyxia buxifolia</i>	<i>Melaleuca hamata</i>
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	<i>Melaleuca leiocarpa</i>
<i>Comesperma integerrimum</i>	<i>Philotheca brucei</i> subsp. <i>brucei</i>
<i>Dodonaea lobulata</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Dodonaea rigida</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)

Deception Deposit Flora Site: DEC-R17

Described by: MM/BE **Date:** 21/08/2010 **Type:** Relevé
MGA Zone: 50 719926 mE 6695588 mN
Habitat: Flats, slope 1 degree
Soil: Red/brown sandy clay loam with surface layer of discontinuous ironstone lag gravel, sub-angular to sub-rounded coarse fragments 2-25 mm diameter; leaf litter focused beneath vegetation
Vegetation: *Eucalyptus longissima* very open tree mallee over *Acacia ramulosa* var. *ramulosa* tall open shrubland over *Scaevola spinescens* (narrow leaf spiny form) scattered shrubs over *Olearia muelleri*, *Ptilotus obovatus* var. *obovatus* low open shrubland
Veg Condition: Pristine
Fire Age: Very long unburnt

SPECIES LIST:

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>
<i>Acacia incurvaneura</i> x ?	<i>Eucalyptus corrugata</i>
<i>Acacia mulganeura</i>	<i>Eucalyptus longissima</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Exocarpos aphyllus</i>
<i>Acacia tetragonophylla</i>	<i>Maireana georgei</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Maireana</i> sp.
<i>Amyema miquelii</i>	<i>Olearia muelleri</i>
<i>Atriplex stipitata</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Austrostipa elegantissima</i>	<i>Rhagodia</i> ? <i>drummondii</i>
<i>Daviesia purpurascens</i>	<i>Rhyncharrhena linearis</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Santalum spicatum</i>
<i>Dodonaea rigida</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Eremophila clarkei</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Westringia cephalantha</i> var. <i>cephalantha</i>
<i>Eremophila metallicorum</i>	<i>Zygophyllum aurantiacum</i>

Deception Deposit Flora Site: DEC-R18

Described by: MM/BE **Date:** 21/08/2010 **Type:** Relevé
MGA Zone: 50 720206 mE 6695413 mN
Habitat: Outcropping BIF rise, slope 7 degrees
Soil: Brown/yellow sandy clay loam with surface of discontinuous angular to sub-angular Fe debris 2-500 mm diameter between outcrop rocks; abundant lichen on outcrop and larger rocks, some algal crusting on exposed soil; leaf litter focused beneath vegetation
Vegetation: *Acacia caesaneura* (narrow phyllode variant), *Melaleuca leiocarpa*, *Calycopeplus paucifolius* tall shrubland over *Eremophila latrobei* subsp. *latrobei*, *Philothea brucei* subsp. *brucei*, *Leucopogon* sp. Clyde Hill shrubland over *Olearia humilis* low open shrubland
Veg Condition: Pristine
Fire Age: Very long unburnt

SPECIES LIST:

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Eremophila latrobei</i> subsp. <i>latrobei</i>
<i>Acacia cockertoniana</i>	<i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i>
<i>Acacia</i> ? <i>incurvaneura</i>	<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)
<i>Acacia mulganeura</i>	<i>Melaleuca leiocarpa</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Olearia humilis</i>
<i>Brachychiton gregorii</i>	<i>Philothea brucei</i> subsp. <i>brucei</i>
<i>Calycopeplus paucifolius</i>	<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>
<i>Cheilanthes adiantoides</i>	<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Thysanotus manglesianus</i>
<i>Dodonaea rigida</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Eremophila clarkei</i>	

Deception Deposit Flora Site: DEC-R19

Described by: MM/BE **Date:** 21/08/2010 **Type:** Relevé
MGA Zone: 50 719353 mE 6694809 mN
Habitat: Outcropping BIF rise, slope 6 degrees
Soil: Red/orange sandy clay loam with discontinuous angular to sub-angular Fe debris 2-400 mm diameter in between outcropping rocks; abundant lichens on outcrop and larger rocks, algal crust on exposed soil between rock; leaf litter focused beneath vegetation
Vegetation: *Dryandra arborea*, *Acacia cockertoniana*, *Eremophila clarkei* tall shrubland over *Philothea brucei* subsp. *brucei* open shrubland over *Olearia humilis* low open shrubland
Veg Condition: Pristine
Fire Age: Very long unburnt

SPECIES LIST:

<i>Acacia cockertoniana</i>	<i>Comesperma integerrimum</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Dianella revoluta</i> var. <i>divaricata</i>
<i>Allocasuarina dielsiana</i>	<i>Dodonaea rigida</i>
<i>Austrostipa platychaeta</i>	<i>Dryandra arborea</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Eremophila clarkei</i>
<i>Brachychiton gregorii</i>	<i>Eremophila latrobei</i> subsp. <i>latrobei</i>
<i>Cheilanthes adiantoides</i>	<i>Olearia humilis</i>
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	<i>Philothea brucei</i> subsp. <i>brucei</i>

Prostanthera althoferi subsp. *althoferi*
Ptilotus obovatus var. *obovatus*
Scaevola spinescens (spiny, fine leaf)

Spartothamnella teucriflora
Stenopetalum filifolium
Thysanotus manglesianus

Deception Deposit Flora Site: DEC-R20

Described by: MM/BE **Date:** 21/08/2010 **Type:** Relevé

MGA Zone: 50 719643 mE 6694943 mN

Habitat: Sub-outcropping low BIF rise, slope 5 degrees

Soil: Orange/brown sandy clay loam with some surface expressions of rock, surface is discontinuous ironstone debris and lag gravel, angular to sub-rounded coarse fragments 2-300 mm diameter;

Vegetation: *Acacia cockertoniana*, *Calycopeplus paucifolius* tall shrubland over *Philothea brucei* subsp. *brucei*, *Leucopogon* sp. Clyde Hill (M.A. Burgman 1207) shrubland

Veg Condition: Pristine

Fire Age: Very long unburnt

Notes: Abundant lichens on outcrop and larger rocks, algal soil crust on exposed soil between rock; leaf litter focused beneath vegetation

SPECIES LIST:

Acacia caesaneura (narrow phyllode variant)
Acacia cockertoniana
Acacia tetragonophylla
Allocasuarina acutivalvis subsp. *acutivalvis*
Allocasuarina eriochlamys subsp. *eriochlamys*
Amphipogon caricinus var. *caricinus*
Austrostipa elegantissima
Brachychiton gregorii
Calocephalus multiflorus
Calycopeplus paucifolius
Cheilanthes sieberi subsp. *sieberi*
Dianella revoluta var. *divaricata*
Dodonaea rigida
Eremophila clarkei

Eremophila latrobei subsp. *latrobei*
Grevillea obliquistigma subsp. *obliquistigma*
Leucopogon sp. Clyde Hill (M.A. Burgman 1207)
Melaleuca leiocarpa
Mirbelia microphylla
Monachather paradoxus
Phebalium canaliculatum
Philothea brucei subsp. *brucei*
Prostanthera althoferi subsp. *althoferi*
Rhyncharrhena linearis
Sida sp. Golden calyces glabrous (H.N. Foote 32)
Stenopetalum filifolium
Thysanotus manglesianus
Waitzia acuminata var. *acuminata*

Deception Deposit Flora Site: DEC-R21

Described by: MM/BE **Date:** 21/08/2010 **Type:** Relevé

MGA Zone: 50 719746 mE 6695295 mN

Habitat: Northern mid slope of the main range of Deception, slope 3 degrees

Soil: Red/brown sandy clay loam with surface of discontinuous ironstone lag gravel and debris, sub-angular to sub-rounded coarse fragments 2-200 mm diameter; abundant algal crusting and some lichens on soil surface; leaf litter focused beneath vegetation

Vegetation: *Acacia caesaneura* (narrow phyllode variant), *A. ramulosa* var. *ramulosa*, *A. tetragonophylla* tall shrubland over *Philothea brucei* subsp. *brucei* open shrubland over *Ptilotus obovatus* var. *obovatus* low open shrubland

Veg Condition: Pristine

Fire Age: Very long unburnt

SPECIES LIST:

Acacia caesaneura (narrow phyllode variant)
Acacia ramulosa var. *ramulosa*
Acacia sp. narrow phyllode (B.R. Maslin 7831)
Acacia tetragonophylla
Allocasuarina dielsiana
Austrostipa elegantissima
Austrostipa platychaeta
Austrostipa ? *scabra*
Brachychiton gregorii
Callitris columellaris
Cheilanthes sieberi subsp. *sieberi*

Dianella revoluta var. *divaricata*
Dodonaea rigida
Eremophila decipiens subsp. *decipiens*
Hakea recurva subsp. *recurva*
Philothea brucei subsp. *brucei*
Psyrax suaveolens
Ptilotus obovatus var. *obovatus*
Scaevola spinescens (spiny, fine leaf)
Senna artemisioides subsp. *filifolia*
Stenopetalum filifolium
Waitzia acuminata var. *acuminata*

Deception Deposit Flora Site: DEC-R22

Described by: MM/BE **Date:** 21/08/2010 **Type:** Relevé

MGA Zone: 50 719855 mE 6694973 mN

Habitat: Undulating flats, slope 2 degrees

Soil: Red/brown sandy loam with surface of discontinuous ironstone lag gravel, sub-angular to sub-rounded coarse fragments 2-30 mm diameter; some algal crust in between lag gravel; leaf litter focused beneath vegetation, particularly Eucalypts

Vegetation: *Eucalyptus longissima* very open tree mallee over *Acacia cockertoniana*, *Eremophila oldfieldii* subsp. *angustifolia* tall shrubland over *Eremophila clarkei*, *E. decipiens* subsp. *decipiens* open shrubland over *Ptilotus obovatus* var. *obovatus* low open shrubland

Veg Condition: Pristine

Fire Age: Very long unburnt

SPECIES LIST:

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Exocarpos aphyllus</i>
<i>Acacia cockertoniana</i>	<i>Maireana georgei</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Olearia muelleri</i>
<i>Acacia tetragonophylla</i>	<i>Philotheca brucei</i> subsp. <i>brucei</i>
<i>Alyxia buxifolia</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Austrostipa elegantissima</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Eremophila clarkei</i>	<i>Solanum nummularium</i>
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	

Deception Deposit Flora Site: DEC-R23**Described by:** MM/BE **Date:** 22/08/2010 **Type:** Relevé**MGA Zone:** 50 718698 mE 6695302 mN**Habitat:** Flats within broad drainage zone, slope 1 degree**Soil:** Red/brown light clay with surface layer of discontinuous ironstone lag gravel, sub-angular to sub-rounded coarse fragments 2-20 mm diameter; some algal crusting; leaf litter focused beneath vegetation, particularly *Eucalypts***Vegetation:** *Eucalyptus loxophleba* subsp. *lissophloia* low open woodland over *Atriplex stipitata* open shrubland over *Sclerolaena diacantha*, *S. fusiformis* open herbland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**SPECIES LIST:**

<i>Acacia aptaneura</i>	<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>
<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Exocarpos aphyllus</i>
<i>Acacia colletioides</i>	<i>Maireana georgei</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Maireana trichoptera</i>
<i>Acacia tetragonophylla</i>	<i>Olearia muelleri</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Ptilotus exaltatus</i> var. <i>villosus</i>
<i>Alyxia buxifolia</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	<i>Rhagodia</i> ? <i>drummondii</i>
<i>Atriplex stipitata</i>	<i>Rhyncharrhena linearis</i>
<i>Austrodanthonia</i> ? <i>setacea</i>	<i>Santalum spicatum</i>
<i>Austrostipa elegantissima</i>	<i>Sclerolaena diacantha</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Sclerolaena fusiformis</i>
<i>Brachychiton gregorii</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Enchylaena lanata</i>	<i>Solanum nummularium</i>
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Spartothamnella</i> sp. Helena & Aurora Range
<i>Eremophila eriocalyx</i>	(P.G. Armstrong 155-109) PN
<i>Eremophila metallicorum</i>	<i>Zygophyllum aurantiacum</i>

Deception Deposit Flora Site: DEC-R24**Described by:** MM/BE **Date:** 22/08/2010 **Type:** Relevé**MGA Zone:** 50 720487 mE 6695125 mN**Habitat:** Undulating flats, slope 1 degree**Soil:** Red/brown sandy clay loam with surface of discontinuous ironstone lag gravel, sub-angular to sub-rounded coarse fragments 2-30 mm diameter; abundant algal crusting between lag gravel; leaf litter focused beneath vegetation, particularly under *Eucalypts***Vegetation:** *Eucalyptus loxophleba* subsp. *lissophloia* low open woodland over *Acacia ramulosa* var. *ramulosa*, *Acacia* sp. narrow phyllode (B.R. Maslin 7831), *Eremophila caperata* tall shrubland over *Olearia muelleri*, *Ptilotus obovatus* var. *obovatus* low open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**SPECIES LIST:**

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Eremophila caperata</i>
<i>Acacia cockertoniana</i>	<i>Eremophila metallicorum</i>
<i>Acacia incurvaneura</i> x ?	<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Gilruthia osbornei</i>
<i>Acacia tetragonophylla</i>	<i>Hakea recurva</i> subsp. <i>recurva</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Maireana georgei</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Monachather paradoxus</i>
<i>Austrodanthonia</i> ? <i>setacea</i>	<i>Olearia muelleri</i>
<i>Austrostipa elegantissima</i>	<i>Olearia pimeleoides</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Philotheca brucei</i> subsp. <i>brucei</i>
<i>Brachychiton gregorii</i>	<i>Ptilotus drummondii</i>
<i>Calocephalus multiflorus</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	<i>Santalum spicatum</i>
<i>Comesperma integerrimum</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Daviesia purpurascens</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Dodonaea rigida</i>	<i>Westringia cephalantha</i> var. <i>cephalantha</i>

Deception Deposit Flora Site: DEC-R25**Described by:** MM/BE **Date:** 23/08/2010 **Type:** Relevé**MGA Zone:** 50 720321 **mE** 6694802 **mN****Habitat:** Flats, slope 1 degree**Soil:** Red/brown sandy clay loam with a surface layer of discontinuous ironstone lag gravel, sub-angular to sub-rounded coarse fragments 2-30 mm diameter; algal crusting between lag gravel; leaf litter focused beneath vegetation, particularly under Eucalypts**Vegetation:** *Eucalyptus longissima* very open tree mallee over *Acacia incurvaneura* x ?, *A. caesaneura* (narrow phyllode variant), *A. ramulosa* var. *ramulosa*, *A. sp.* narrow phyllode (B.R. Maslin 7831) tall shrubland over *Eremophila decipiens* subsp. *decipiens* scattered shrubs over *Olearia muelleri*, *Ptilotus obovatus* var. *obovatus* low open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**SPECIES LIST:**

Acacia caesaneura (narrow phyllode variant)
Acacia colletioides
Acacia incurvaneura x ?
Acacia mulganeura
Acacia ramulosa var. *ramulosa*
Acacia sp. narrow phyllode (B.R. Maslin 7831)
Amphipogon caricinus var. *caricinus*
Austrostipa elegantissima
Austrostipa ? *scabra*
Cheilanthes sieberi subsp. *sieberi*
Dianella revoluta var. *divaricata*
Eremophila decipiens subsp. *decipiens*
Eremophila eriocalyx
Eremophila metallicorum
Eucalyptus longissima

Exocarpos aphyllus
Grevillea nematophylla subsp. *nematophylla*
Hakea recurva subsp. *recurva*
Maireana georgei
Monachather paradoxus
Olearia humilis
Olearia muelleri
Olearia pimeleoides
Ptilotus obovatus var. *obovatus*
Rhyncharrhena linearis
Scaevola spinescens (spiny, fine leaf)
Senna artemisioides subsp. *filifolia*
Solanum nummularium
Thysanotus manglesianus
Waitzia acuminata var. *acuminata*

Deception Deposit Flora Site: DEC-R26**Described by:** MM/BE **Date:** 23/08/2010 **Type:** Relevé**MGA Zone:** 50 720650 **mE** 6694731 **mN****Habitat:** Flats, slope 1 degree**Soil:** Red/brown sandy clay loam with a surface layer of some quartz fragments and discontinuous lag gravel, sub-angular to rounded coarse fragments 2-40 mm diameter; some algal crusting; leaf litter mainly beneath vegetation, particularly under Eucalypts**Vegetation:** *Eucalyptus longissima* very open tree mallee over *Acacia caesaneura* (narrow phyllode variant), *A. ramulosa* var. *ramulosa* tall open shrubland over *Atriplex stipitata*, *Ptilotus obovatus* var. *obovatus*, *Rhagodia drummondii*, *Maireana triptera*, *M. georgei* low open shrubland over *Sclerolaena diacantha*, *S. fusiformis* very open herbland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**SPECIES LIST:**

Acacia andrewsii
Acacia caesaneura (narrow phyllode variant)
Acacia colletioides
Acacia ramulosa var. *ramulosa*
Acacia tetragonophylla
Acacia sp. narrow phyllode (B.R. Maslin 7831)
Atriplex stipitata
Austrostipa platychaeta
Austrostipa ? *scabra*
Dianella revoluta var. *divaricata*
Enchylaena lanata
Enchylaena tomentosa var. *tomentosa*
Eremophila clarkei
Eremophila decipiens subsp. *decipiens*
Eremophila metallicorum
Exocarpos aphyllus

Hakea recurva subsp. *recurva*
Maireana georgei
Maireana trichoptera
Maireana triptera
Olearia muelleri
Olearia pimeleoides
Ptilotus obovatus var. *obovatus*
Rhagodia ? *drummondii*
Rhyncharrhena linearis
Scaevola spinescens (broad leaf, non-spiny form)
Sclerolaena diacantha
Sclerolaena fusiformis
Senna artemisioides subsp. *filifolia*
Stenopetalum filifolium
Waitzia acuminata var. *acuminata*
Zygophyllum aurantiacum

Deception Deposit Flora Site: DEC-R27**Described by:** MM/BE **Date:** 23/08/2010 **Type:** Relevé**MGA Zone:** 50 720656 **mE** 6694846 **mN****Habitat:** Broad drainage flat, slope 1 degree**Soil:** Red/orange sandy clay loam with a surface layer of discontinuous ironstone lag gravel, sub-angular to sub-rounded coarse fragments 2-20 mm diameter; abundant algal and lichen crusting between lag gravel; leaf litter focused beneath vegetation**Vegetation:** *Acacia* ? *incurvaneura*, *A. incurvaneura* x ?, *A. ramulosa* var. *ramulosa* tall shrubland over *Ptilotus obovatus* var. *obovatus* low open shrubland over *Cheilanthes sieberi* subsp. *sieberi*, *Waitzia acuminata* subsp. *acuminata* very open herbland with *Amphipogon caricinus* var. *caricinus* scattered tussock grasses**Veg Condition:** Pristine**Fire Age:** Very long unburnt

SPECIES LIST:

<i>Acacia incurvaneura</i> x ?	<i>Enchylaena lanata</i>
<i>Acacia</i> ? <i>incurvaneura</i>	<i>Eremophila metallicorum</i>
<i>Acacia mulganeura</i>	<i>Gilruthia osbornei</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Hakea recurva</i> subsp. <i>recurva</i>
<i>Acacia tetragonophylla</i>	<i>Monachather paradoxus</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Olearia humilis</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Austrostipa elegantissima</i>	<i>Rhyncharhena linearis</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Brachychiton gregorii</i>	<i>Solanum nummularium</i>
<i>Cheilanthes adiantoides</i>	<i>Stenopetalum filifolium</i>
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	<i>Thysanotus manglesianus</i>
<i>Chthonocephalus pseudevax</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	

Deception Deposit Flora Site: DEC-R28

Described by:	MM/BE	Date:	23/08/2010	Type:	Relevé
MGA Zone:	50	mE	718643	mN	6692522
Habitat:	Flats, slope 1 degree				
Soil:	Red/brown sandy loam with a surface layer of discontinuous ironstone lag gravel, sub-angular to sub-rounded coarse fragments 2-20 mm diameter; abundant algal crusting between lag gravel; leaf litter focused beneath vegetation, particularly under Eucalypts				
Vegetation:	<i>Eucalyptus formanii</i> low open woodland over <i>Acacia caesaneura</i> (narrow phyllode variant), <i>A. colletioides</i> tall open shrubland over <i>Cryptandra connata</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> open shrubland over <i>Olearia muelleri</i> scattered low shrubs				
Veg Condition:	Pristine				
Fire Age:	Very long unburnt				

SPECIES LIST:

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Eremophila metallicorum</i>
<i>Acacia colletioides</i>	<i>Eucalyptus formanii</i>
<i>Acacia mulganeura</i>	<i>Maireana georgei</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Maireana trichoptera</i>
<i>Acacia tetragonophylla</i>	<i>Monachather paradoxus</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Olearia humilis</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Olearia muelleri</i>
<i>Austrodanthonia</i> ? <i>setacea</i>	<i>Olearia pimeleoides</i>
<i>Austrostipa elegantissima</i>	<i>Prostanthera campbellii</i> x <i>althoferi</i>
<i>Austrostipa platychaeta</i>	<i>Ptilotus drummondii</i>
<i>Casuarina pauper</i>	<i>Ptilotus exaltatus</i> var. <i>villosus</i>
<i>Cryptandra connata</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Sclerolaena diacantha</i>
<i>Dodonaea rigida</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Enchylaena lanata</i>	<i>Stenopetalum filifolium</i>
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Eremophila eriocalyx</i>	

Deception Deposit Flora Site: DEC-R29

Described by:	MM/BE	Date:	24/08/2010	Type:	Relevé
MGA Zone:	50	mE	718222	mN	6691634
Habitat:	Flats; slope 1 degree				
Soil:	Red/brown loamy sand with surface of discontinuous ironstone lag gravel, sub-rounded to rounded coarse fragments 2-10mm diameter; some algal crusting between lag gravel				
Vegetation:	<i>Eucalyptus formanii</i> low open woodland over <i>Olearia muelleri</i> , <i>Ptilotus drummondii</i> low open shrubland				
Veg Condition:	Pristine				
Fire Age:	Very long unburnt				
Notes:	Leaf litter focused beneath trees				

SPECIES LIST:

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Eucalyptus formanii</i>
<i>Acacia colletioides</i>	<i>Maireana georgei</i>
<i>Acacia obtecta</i>	<i>Monachather paradoxus</i>
<i>Acacia tetragonophylla</i>	<i>Olearia muelleri</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Ptilotus drummondii</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Ptilotus exaltatus</i> var. <i>villosus</i>
<i>Austrostipa elegantissima</i>	<i>Sclerolaena diacantha</i>
<i>Daviesia purpurascens</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Stenopetalum filifolium</i>
<i>Eremophila caperata</i>	

Deception Deposit Flora Site: DEC-R30**Described by:** MM/BE **Date:** 24/08/2010 **Type:** Relevé**MGA Zone:** 50 718017 mE 6691310 mN**Habitat:** Flats; slope 1 degree**Soil:** Red/brown loamy sand with surface layer of coarse sandy textured lag material; not a lot of Fe lag gravel, sub-rounded to rounded fragments mainly 0.5-2 mm diameter; some surface and algal crusting between sandy patches**Vegetation:** *Acacia caesaneura* (narrow phyllode variant), *Grevillea nematophylla*, *Acacia ramulosa* var. *ramulosa*, *A. sp.* narrow phyllode, *A. obtecta* tall shrubland over *Prostanthera grylloana* low open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Leaf litter focused beneath shrubs**SPECIES LIST:**

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Eremophila eriocalyx</i>
<i>Acacia obtecta</i>	<i>Eremophila metallicorum</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Grevillea nematophylla</i> subsp. <i>nematophylla</i>
<i>Acacia tetragonophylla</i>	<i>Hakea recurva</i> subsp. <i>recurva</i>
<i>Acacia sp.</i> narrow phyllode (B.R. Maslin 7831)	<i>Monachather paradoxus</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Olearia humilis</i>
<i>Austrodanthonia</i> ? <i>setacea</i>	<i>Olearia pimeleoides</i>
<i>Austrostipa elegantissima</i>	<i>Podolepis capillaris</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Prostanthera campbellii</i>
<i>Bossiaea walkeri</i>	<i>Prostanthera grylloana</i>
<i>Calocephalus multiflorus</i>	<i>Ptilotus drummondii</i>
<i>Cryptandra connata</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Stenopetalum filifolium</i>
	<i>Waitzia acuminata</i> var. <i>acuminata</i>

Deception Deposit Flora Site: DEC-R31**Described by:** MM/BE **Date:** 24/08/2010 **Type:** Relevé**MGA Zone:** 50 717992 mE 6690592 mN**Habitat:** Flats; slope 1 degree**Soil:** Red/brown loamy sand with surface of coarse sandy textured lag material; not a lot of Fe lag gravel, sub-rounded to rounded fragments mainly 0.5-2 mm diameter; some surface and algal crusting between sandy patches**Vegetation:** *Eucalyptus corrugata* open woodland over *Westringia cephalantha* var. *cephalantha*, *Bossiaea walkeri* open shrubland over *Olearia muelleri* low open shrubland over *Triodia tomentosa* scattered hummock grasses**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Leaf litter mainly under vegetation**SPECIES LIST:**

<i>Acacia colletioides</i>	<i>Eucalyptus longissima</i>
<i>Acacia obtecta</i>	<i>Exocarpos aphyllus</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Gnephosis tenuissima</i>
<i>Acacia sp.</i> narrow phyllode (B.R. Maslin 7831)	<i>Maireana georgei</i>
<i>Acacia tetragonophylla</i>	<i>Monachather paradoxus</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Olearia exiguifolia</i>
<i>Aristida contorta</i>	<i>Olearia muelleri</i>
<i>Austrodanthonia</i> ? <i>setacea</i>	<i>Olearia pimeleoides</i>
<i>Austrostipa elegantissima</i>	<i>Philotheca brucei</i> subsp. <i>brucei</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Podolepis capillaris</i>
<i>Bossiaea walkeri</i>	<i>Ptilotus drummondii</i>
<i>Callitris columellaris</i>	<i>Ptilotus exaltatus</i> var. <i>villosus</i>
<i>Calytrix sp.</i> Paynes Find (F. & J. Hort 1188)	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Daviesia purpurascens</i>	<i>Scaevola spinescens</i> (broad leaf, non-spiny form)
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Eremophila caperata</i>	<i>Stenopetalum filifolium</i>
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Triodia tomentosa</i>
<i>Eremophila eriocalyx</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Eucalyptus corrugata</i>	<i>Westringia cephalantha</i> var. <i>cephalantha</i>
<i>Eucalyptus formanii</i>	

Deception Deposit Flora Site: DEC-R32**Described by:** MM/BE **Date:** 24/08/2010 **Type:** Relevé**MGA Zone:** 50 718050 mE 6689427 mN**Habitat:** Flats; slope 2 degrees**Soil:** Yellow/brown sandy clay loam with surface of discontinuous Fe lag gravel, sub-rounded to rounded coarse fragments 2-30 mm diameter; algal crusting between lag gravel**Vegetation:** *Acacia sibina*, *A. effusifolia* tall open shrubland over *Grevillea erectiloba*, *Baeckea elderiana* shrubland over *Wrixonia prostantheroides* scattered low shrubs**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Very little leaf litter beneath vegetation

SPECIES LIST:

<i>Acacia effusifolia</i>	<i>Eucalyptus ewartiana</i>
<i>Acacia incurvaneura</i> x ?	<i>Grevillea erectiloba</i>
<i>Acacia mulganeura</i>	<i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i>
<i>Acacia sibina</i>	<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)
<i>Acacia tetragonophylla</i>	<i>Monachather paradoxus</i>
<i>Alyxia buxifolia</i>	<i>Philothea brucei</i> subsp. <i>brucei</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Philothea coateana</i>
<i>Baeckea elderiana</i>	<i>Rhyncharhena linearis</i>
<i>Calocephalus multiflorus</i>	<i>Thysanotus manglesianus</i>
<i>Cryptandra connata</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Wrixonia prostantheroides</i>

Deception Deposit Flora Site: DEC-R33**Described by:** MM/BE **Date:** 24/08/2010 **Type:** Relevé**MGA Zone:** 50 718058 mE 6688973 mN**Habitat:** Low gravelly rise, slope 3 degrees**Soil:** Red/brown sandy clay loam with surface of discontinuous debris material and some Fe lag gravel, angular to sub-rounded coarse fragments 2-60 mm diameter; algal/lichen crusting between**Vegetation:** *Allocasuarina eriochlamys* subsp. *eriochlamys* tall open scrub over *Leucopogon* sp. Clyde Hill open shrubland over *Hibbertia eatoniae* scattered low shrubs**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Considerable leaf litter focused beneath shrubs**SPECIES LIST:**

<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	<i>Monachather paradoxus</i>
<i>Allocasuarina dielsiana</i>	<i>Philothea brucei</i> subsp. <i>brucei</i>
<i>Allocasuarina eriochlamys</i> subsp. <i>eriochlamys</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Stenopetalum filifolium</i>
<i>Aristida contorta</i>	<i>Thysanotus manglesianus</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Hibbertia eatoniae</i>	

Deception Deposit Flora Site: DEC-R34**Described by:** MM/BE **Date:** 24/08/2010 **Type:** Relevé**MGA Zone:** 50 717996 mE 6688958 mN**Habitat:** Low mid-slope of low gravelly rise, slope 3 degrees**Soil:** Orange/brown sandy clay loam with surface of discontinuous Fe lag gravel, angular to sub-rounded coarse fragments 2-40 mm diameter; algal crusting between lag gravel**Vegetation:** *Acacia sibina*, *A. effusifolia* tall open shrubland over *Baeckea elderiana* shrubland over *Hibbertia eatoniae* scattered low shrubs**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Very little leaf litter under shrubs**SPECIES LIST:**

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Dianella revoluta</i> var. <i>divaricata</i>
<i>Acacia incurvaneura</i> x ?	<i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i>
<i>Acacia mulganeura</i>	<i>Hibbertia eatoniae</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Monachather paradoxus</i>
<i>Acacia sibina</i>	<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Baeckea elderiana</i>	<i>Wrixonia prostantheroides</i>
<i>Calocephalus multiflorus</i>	

Deception Deposit Flora Site: DEC-R35**Described by:** MM/BE **Date:** 24/08/2010 **Type:** Relevé**MGA Zone:** 50 718035 mE 6688786 mN**Habitat:** Mid- to upper-slope of minor BIF range to west of Pigeon Rocks, slope 4 degrees**Soil:** Yellow-brown sandy clay loam with stony surface of discontinuous ironstone and some calcrete lag gravel, angular to sub-angular coarse fragments 2-300 mm diameter; algal and surface crusting between gravel**Vegetation:** *Acacia caesaneura* (narrow phyllode variant), *A. mulganeura*, *A. ?* sp. Mt Jackson (B. Ryan 176), *A. ramulosa* var. *ramulosa*, *Eremophila clarkei* tall shrubland over *Philothea brucei* subsp. *brucei*, *Eremophila latrobei* subsp. *latrobei* shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Leaf litter concentrated beneath shrubs**SPECIES LIST:**

<i>Acacia aptaneura</i>	<i>Acacia ramulosa</i> var. <i>ramulosa</i>
<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Acacia ?</i> sp. Mt Jackson (B. Ryan 176) (sterile)
<i>Acacia mulganeura</i>	<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)

Allocasuarina acutivalvis subsp. *acutivalvis*
Amphipogon caricinus var. *caricinus*
Brachychiton gregorii
Cheilanthes sieberi subsp. *sieberi*
Cryptandra connata
Dianella revoluta var. *divaricata*
Dodonaea rigida
Eremophila clarkei
Eremophila latrobei subsp. *latrobei*
Euphorbia tannensis subsp. *eremophila*
Lepidium oxytrichum

Leucopogon sp. Clyde Hill (M.A. Burgman 1207)
Monachather paradoxus
Olearia humilis
Philotheca brucei subsp. *brucei*
Prostanthera althoferi subsp. *althoferi*
Ptilotus obovatus var. *obovatus*
Santalum spicatum
Scaevola spinescens (spiny, fine leaf)
Solanum lasiophyllum
Stenopetalum filifolium
Thysanotus manglesianus
Waitzia acuminata var. *acuminata*

Deception Deposit Flora Site: DEC-R36**Described by:** MM/BE **Date:** 25/08/2010 **Type:** Relevé**MGA Zone:** 50 **718023 mE 6688342 mN****Habitat:** Upper-slope of minor BIF range to west of Pigeon Rocks, slope 9 degrees**Soil:** Red/brown sandy loam with some outcropping ironstone and an almost continuous mantle of debris and lag gravel; angular to sub-angular coarse fragments 2-600 mm diameter; algal and lichen crusting where soil exposed**Vegetation:** *Acacia* ? *incurvaneura*, *A. caesaneura* (narrow phyllode variant) tall shrubland over *Eremophila latrobei* subsp. *latrobei* open shrubland over *Prostanthera althoferi* subsp. *althoferi*, *Olearia humilis* low open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Most rock surfaces also covered in lichens; leaf litter focused beneath shrubs**SPECIES LIST:**

Acacia caesaneura (narrow phyllode variant)
Acacia incurvaneura x ?
Acacia ? *incurvaneura*
Acacia ? sp. Mt Jackson (B. Ryan 176) (sterile)
Brachychiton gregorii
Cheilanthes sieberi subsp. *sieberi*
Dodonaea rigida
Eremophila clarkei
Eremophila forrestii subsp. *forrestii*
Eremophila latrobei subsp. *latrobei*
Erodium cygnorum

Euphorbia tannensis subsp. *eremophila*
Monachather paradoxus
Olearia humilis
Philotheca brucei subsp. *brucei*
Phyllangium sulcatum
Prostanthera althoferi subsp. *althoferi*
Scaevola spinescens (spiny, fine leaf)
Sida sp. Golden calyces glabrous (H.N. Foote 32)
Solanum ellipticum
Thysanotus manglesianus
Waitzia acuminata var. *acuminata*

Deception Deposit Flora Site: DEC-R37**Described by:** MM/BE **Date:** 25/08/2010 **Type:** Relevé**MGA Zone:** 50 **718050 mE 6688249 mN****Habitat:** East-facing upper outcrop of small BIF range to west of Pigeon Rocks; slope 20 degrees downslope to the east, 3 degrees across top of ridge to the west**Soil:** Brown/orange sandy loam with a surface of mainly BIF outcrop and large debris with some smaller debris material in between, 2-600mm diameter; algal and lichen crusting where soil is exposed, most rock surfaces also covered in lichens**Vegetation:** *Acacia* ? sp. Mt Jackson (B. Ryan 176), (*Eremophila clarkei*) tall shrubland over *Philotheca brucei* subsp. *brucei*, *Eremophila latrobei* subsp. *latrobei* shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Leaf litter focused beneath shrubs**SPECIES LIST:**

Abutilon cryptopetalum
Acacia caesaneura (narrow phyllode variant)
Acacia obtecta
Acacia ? sp. Mt Jackson (B. Ryan 176) (sterile)
Acacia sp. narrow phyllode (B.R. Maslin 7831)
Acacia tetragonophylla
Allocasuarina dielsiana
Alyxia buxifolia
Amyema nestor
Brachychiton gregorii
Cheilanthes adiantoides
Cheilanthes sieberi subsp. *sieberi*
Comesperma integerrimum
Crassula colorata var. *acuminata*
Daucus glochidiatus
Dianella revoluta var. *divaricata*
Dodonaea rigida
Drosera macrantha subsp. *macrantha*
Enchylaena lanata
Eremophila clarkei

Eremophila latrobei subsp. *latrobei*
Eremophila oldfieldii subsp. *angustifolia*
Lawrencella rosea
Marsdenia australis
Monachather paradoxus
Parietaria cardiostegia
Philotheca brucei subsp. *brucei*
Prostanthera magnifica
Ptilotus obovatus var. *obovatus*
Rhodanthe battii
Rhodanthe manglesii
Rhyncharrhena linearis
Santalum spicatum
Scaevola spinescens (spiny, fine leaf)
Sida sp. dark green fruit (S. van Leeuwen 2260)
Sida sp. Golden calyces glabrous (H.N. Foote 32)
Solanum ellipticum
Stenopetalum filifolium
Thysanotus manglesianus
Trachymene ornata
Waitzia acuminata var. *acuminata*

Deception Deposit Flora Site: DEC-R38

Described by: MM/BE **Date:** 25/08/2010 **Type:** Relevé
MGA Zone: 50 718041 **mE** 6688160 **mN**
Habitat: East-facing mid-slope of low BIF range to west of Pigeon Rocks, slope 6 degrees
Soil: Red/orange sandy loam with surface of discontinuous Fe lag gravel and debris; angular to sub-angular coarse fragments 2-200 mm diameter; some algal and surface crusting
Vegetation: *Acacia* sp. narrow phyllode, *Eremophila oldfieldii* subsp. *angustifolia* tall shrubland over *Philotheca brucei* subsp. *brucei* open shrubland over *Ptilotus obovatus* var. *obovatus* scattered low shrubs
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: Leaf litter focused beneath shrubs

SPECIES LIST:

<i>Acacia obtecta</i>	<i>Philotheca brucei</i> subsp. <i>brucei</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Prostanthera magnifica</i>
<i>Acacia tetragonophylla</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Santalum spicatum</i>
<i>Allocasuarina dielsiana</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Austrodanthonia</i> ? <i>setacea</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Comesperma integerrimum</i>	<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)
<i>Dodonaea rigida</i>	<i>Solanum lasiophyllum</i>
<i>Eremophila clarkei</i>	<i>Stenopetalum filifolium</i>
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>

Deception Deposit Flora Site: DEC-R39

Described by: MM/BE **Date:** 25/08/2010 **Type:** Relevé
MGA Zone: 50 717984 **mE** 6688088 **mN**
Habitat: Eastern mid-slope of minor BIF range to west of Pigeon Rocks, slope 5 degrees
Soil: Red/brown sandy loam with surface of some calcrete outcrop and almost continuous ironstone lag gravel; angular to sub-rounded coarse fragments 2-200 mm diameter; very little surface crusting
Vegetation: *Ptilotus obovatus* var. *obovatus* low shrubland over *Lemooria burkittii*, **Erodium cicutarium* very open herbland
Veg Condition: Very Good to Good: **Brassica tournefortii*, **Erodium cicutarium* and **Sisymbrium irio* present; area appears to have been cleared of overstorey *Acacia* species
Fire Age: Very long unburnt
Notes: Very little leaf litter, focused beneath shrubs

SPECIES LIST:

<i>Acacia tetragonophylla</i>	<i>Lysiana casuarinae</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Parietaria cardiostegia</i>
<i>Aristida contorta</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
* <i>Brassica tournefortii</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Cephalopterum drummondii</i>	<i>Senna pleurocarpa</i> var. <i>pleurocarpa</i>
<i>Crassula colorata</i> var. <i>acuminata</i>	<i>Sida calyxhymenia</i>
<i>Enneapogon caerulescens</i>	* <i>Sisymbrium irio</i>
* <i>Erodium cicutarium</i>	<i>Solanum ellipticum</i>
<i>Erodium cygnorum</i>	<i>Solanum lasiophyllum</i>
<i>Lemooria burkittii</i>	<i>Solanum nummularium</i>

Deception Deposit Flora Site: DEC-R40

Described by: MM/BE **Date:** 25/08/2010 **Type:** Relevé
MGA Zone: 50 718008 **mE** 6686633 **mN**
Habitat: Low granite rise southwest of Pigeon Rocks, slope 2 degrees
Soil: Orange sand with surface of some outcropping granite with coarse granite debris in between; subrounded rocks 5-500 mm diameter; very little algal crusting
Vegetation: *Acacia ramulosa* var. *ramulosa*, *Acacia* sp. narrow phyllode tall open shrubland over *Eremophila forrestii* subsp. *forrestii* open shrubland over mixed very open herbland / very open grassland
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: Leaf litter focused beneath shrubs

SPECIES LIST:

<i>Acacia lasiocalyx</i>	<i>Crassula colorata</i> var. <i>acuminata</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	* <i>Cuscuta epithymum</i>
<i>Acacia tetragonophylla</i>	<i>Daucus glochidiatus</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Dianella revoluta</i> var. <i>divaricata</i>
<i>Austrostipa platychaeta</i>	<i>Eremophila decipiens</i> subsp. <i>decipiens</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Eremophila forrestii</i> subsp. <i>forrestii</i>
<i>Austrostipa tenuifolia</i>	<i>Eremophila longifolia</i>
<i>Bellida graminea</i>	<i>Erodium cygnorum</i>
<i>Brachychiton gregorii</i>	<i>Gilruthia osbornei</i>
? <i>Caesia</i> sp. (sterile material)	<i>Glycine peratosa</i>
<i>Calandrinia</i> sp.	<i>Gnephosis tenuissima</i>
<i>Cephalopterum drummondii</i>	<i>Lawrencella rosea</i>
<i>Cheilanthes adiantoides</i>	<i>Lemooria burkittii</i>
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	<i>Maireana trichoptera</i>
<i>Chthonocephalus pseudevax</i>	<i>Millotia myosotidifolia</i>

<i>Monachather paradoxus</i>	<i>Senecio glossanthus</i>
<i>Ophioglossum lusitanicum</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Pittosporum angustifolium</i>	<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)
<i>Plantago debilis</i>	<i>Solanum hoplopetalum</i>
<i>Podolepis capillaris</i>	<i>Solanum lasiophyllum</i>
<i>Podolepis lessonii</i>	<i>Spartothamnella teucriflora</i>
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	<i>Thyridolepis mitchelliana</i>
<i>Rhodanthe battii</i>	<i>Trachymene ornata</i>
<i>Rhodanthe oppositifolia</i>	<i>Velleia rosea</i>
<i>Rhyncharhena linearis</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Schoenia cassiniana</i>	

Deception Deposit Flora Site: DEC-R41**Described by:** MM/BE **Date:** 26/08/2010 **Type:** Relevé**MGA Zone:** 50 718005 mE 6685839 mN**Habitat:** Sandy flats, slope 1 degree**Soil:** Orange sand with surface of coarse grained sand and sub-angular to sub-rounded fine quartz gravel 2-4mm diameter; algal and surface crusting**Vegetation:** *Callitris columellaris* low woodland over *Acacia ramulosa* var. *ramulosa*, A. sp. narrow phyllode tall open shrubland over *Eremophila granitica*, *Scaevola spinescens* (broad leaf non-spiny form), *Olearia pimeleoides* shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Leaf litter focused beneath vegetation. There are surface outcrops of granite in some isolated patches through this community.**SPECIES LIST:**

<i>Acacia colletioides</i>	<i>Exocarpos aphyllus</i>
<i>Acacia jennerae</i>	<i>Monachather paradoxus</i>
<i>Acacia obtecta</i>	<i>Olearia muelleri</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Olearia pimeleoides</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Podolepis capillaris</i>
<i>Acacia tetragonophylla</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Alyxia buxifolia</i>	<i>Rhagodia</i> ? <i>drummondii</i>
<i>Austrodanthonia</i> ? <i>setacea</i>	<i>Rhyncharhena linearis</i>
<i>Austrostipa elegantissima</i>	<i>Santalum spicatum</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Scaevola spinescens</i> (broad leaf, non-spiny form)
<i>Callitris columellaris</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Eragrostis eriopoda</i>	<i>Solanum nummularium</i>
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Stenopetalum filifolium</i>
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Eremophila granitica</i>	

Deception Deposit Flora Site: DEC-R42**Described by:** MM/BE **Date:** 26/08/2010 **Type:** Relevé**MGA Zone:** 50 718021 mE 6685615 mN**Habitat:** Sandy flats, slope 1 degree**Soil:** Orange sand with surface of coarse grained sand and sub-angular to sub-rounded fine quartz gravel 2-4mm diameter; algal and surface crusting**Vegetation:** *Eucalyptus corrugata* low open woodland over *Acacia ramulosa* var. *ramulosa* tall open shrubland over *Scaevola spinescens* (broad leaf non-spiny) open shrubland over *Olearia muelleri* low open shrubland over *Monachather paradoxus* very open grassland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Leaf litter focused beneath vegetation**SPECIES LIST:**

<i>Acacia jennerae</i>	<i>Exocarpos aphyllus</i>
<i>Acacia obtecta</i>	<i>Maireana georgei</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Monachather paradoxus</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Olearia muelleri</i>
<i>Acacia tetragonophylla</i>	<i>Olearia pimeleoides</i>
<i>Alyxia buxifolia</i>	<i>Podolepis capillaris</i>
<i>Aristida contorta</i>	<i>Ptilotus exaltatus</i> var. <i>villosus</i>
<i>Austrostipa elegantissima</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Austrostipa nodosa</i>	<i>Rhagodia</i> ? <i>drummondii</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Rhagodia preissii</i> subsp. <i>obovata</i>
<i>Callitris columellaris</i>	<i>Rhyncharhena linearis</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Scaevola spinescens</i> (broad leaf, non-spiny form)
<i>Enchylaena lanata</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	<i>Sclerolaena diacantha</i>
<i>Eragrostis eriopoda</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Solanum nummularium</i>
<i>Eremophila granitica</i>	<i>Stenopetalum filifolium</i>
<i>Eucalyptus corrugata</i>	<i>Zygophyllum aurantiacum</i>

Deception Deposit Flora Site: DEC-R43

Described by: MM/BE **Date:** 26/08/2010 **Type:** Relevé
MGA Zone: 50 718033 mE 6685240 mN
Habitat: Low granite rise, slope 2 degrees
Soil: Orange sand with surface of outcropping granite with some coarse granite and quartz debris on coarse sands, sub-angular to sub-rounded fragments 2-200 mm diameter; high percentage of fine gravels (<5mm)
Vegetation: *Acacia quadrimarginea* tall open shrubland over *Eremophila forrestii* subsp. *forrestii* open shrubland over *Mirbelia microphylla* low open shrubland over *Borya constricta* open herbland
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: Some algal and surface crusting; leaf litter focused beneath shrubs

SPECIES LIST:

<i>Acacia quadrimarginea</i>	<i>Hyalosperma demissum</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Lawrencella rosea</i>
<i>Aristida contorta</i>	<i>Melaleuca hamata</i>
<i>Austrostipa tenuifolia</i>	<i>Millotia myosotidifolia</i>
<i>Borya constricta</i>	<i>Millotia perpusilla</i>
<i>Brachychiton gregorii</i>	<i>Mirbelia microphylla</i>
? <i>Caesia</i> sp. (sterile material)	<i>Monachather paradoxus</i>
<i>Calandrinia</i> sp.	<i>Podolepis canescens</i>
<i>Calotis hispidula</i>	<i>Podolepis capillaris</i>
<i>Calycopeplus paucifolius</i>	<i>Podolepis lessonii</i>
<i>Cephalopterum drummondii</i>	<i>Rhodanthe oppositifolia</i>
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	<i>Rhyncharhena linearis</i>
<i>Chthonocephalus pseudevax</i>	<i>Senecio glossanthus</i>
<i>Crassula</i> ? <i>extrorsa</i>	<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)
<i>Cyanicula amplexans</i>	<i>Solanum ellipticum</i>
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	<i>Stenopetalum filifolium</i>
<i>Eremophila serrulata</i>	<i>Thysanotus manglesianus</i>
<i>Erodium cygnorum</i>	<i>Trachymene ornata</i>
<i>Euphorbia drummondii</i> subsp. <i>drummondii</i>	<i>Triglochin</i> sp. A Flora of Australia (G.J. Keighery 2477)
<i>Gilberta tenuifolia</i>	<i>Tripogon loliiformis</i>
<i>Gilruthia osbornei</i>	<i>Velleia rosea</i>
<i>Gnephosis tenuissima</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>

Deception Deposit Flora Site: DEC-R44

Described by: MM/BE **Date:** 26/08/2010 **Type:** Relevé
MGA Zone: 50 718047 mE 6684619 mN
Habitat: Flats, slope 1 degree
Soil: Orange sand with surface of coarse-grained sand and sub-angular to sub-rounded fine quartz gravel 2-4mm diameter; algal and surface crusting
Vegetation: *Acacia caesaneura* (narrow phyllode variant), *A. effusifolia* to tall shrubland over *Eremophila granitica* open shrubland over *Waitzia acuminata* subsp. *acuminata* very open herbland with *Monachather paradoxus* very open grassland
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: Leaf litter focused beneath vegetation

SPECIES LIST:

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Eremophila granitica</i>
<i>Acacia effusifolia</i>	<i>Eucalyptus ewartiana</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Gilberta tenuifolia</i>
<i>Austrostipa nodosa</i>	<i>Monachather paradoxus</i>
<i>Brachychiton gregorii</i>	<i>Philothea brucei</i> subsp. <i>brucei</i>
<i>Callitris columellaris</i>	<i>Prostanthera campbellii</i>
<i>Calocephalus multiflorus</i>	<i>Rhyncharhena linearis</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Thysanotus manglesianus</i>
<i>Eragrostis eriopoda</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	

Deception Deposit Flora Site: DEC-R45

Described by: MM/BE **Date:** 26/08/2010 **Type:** Relevé
MGA Zone: 50 718035 mE 6684409 mN
Habitat: Sandy flats, slope 1 degree
Soil: Orange sand with surface of coarse-grained sand and sub-angular to sub-rounded fine quartz gravel 2-4mm diameter; algal and surface crusting; leaf litter focused beneath vegetation
Vegetation: *Eucalyptus loxophleba* subsp. *lissophloia* open woodland over *Eremophila caperata* open shrubland over *Olearia muelleri*, *Ptilotus obovatus* var. *obovatus* low open shrubland with *Chamaexeros fimbriata* scattered herbs
Veg Condition: Pristine
Fire Age: Very long unburnt

SPECIES LIST:

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Maireana georgei</i>
<i>Acacia colletioides</i>	<i>Maireana trichoptera</i>
<i>Acacia jennerae</i>	<i>Monachather paradoxus</i>
<i>Acacia obtecta</i>	<i>Olearia muelleri</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Olearia pimeleoides</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Pittosporum angustifolium</i>
<i>Acacia tetragonophylla</i>	<i>Podolepis capillaris</i>
<i>Alyxia buxifolia</i>	<i>Ptilotus exaltatus</i> var. <i>villosus</i>
<i>Austrodanthonia</i> ? <i>setacea</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Austrostipa elegantissima</i>	<i>Rhagodia</i> ? <i>drummondii</i>
<i>Austrostipa scabra</i>	<i>Rhyncharrhena linearis</i>
<i>Brachychiton gregorii</i>	<i>Santalum spicatum</i>
<i>Callitris columellaris</i>	<i>Scaevola spinescens</i> (broad leaf, non-spiny form)
<i>Chamaexeros fimbriata</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Sclerolaena diacantha</i>
<i>Enchylaena lanata</i>	<i>Sclerolaena fusiformis</i>
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Eremophila caperata</i>	<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Solanum lasiophyllum</i>
<i>Eremophila granitica</i>	<i>Solanum nummularium</i>
<i>Eremophila pantonii</i>	<i>Stenopetalum filifolium</i>
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	

Deception Deposit Flora Site: DEC-R46**Described by:** MM/BE **Date:** 26/08/2010 **Type:** Relevé**MGA Zone:** 50 718057 mE 6684110 mN**Habitat:** Weathered breakaway, drainage focus adjacent, and washplain; slope 1-2 degrees for all components except breakaway slope (25 degrees); mixed site (see notes)**Soil:** See notes**Vegetation:** *Acacia cockertoniana*, *Melaleuca leiocarpa* tall open shrubland to tall shrubland over *Alyxia buxifolia*, *Grevillea extorris*, *Eremophila latrobei* subsp. *latrobei* scattered shrubs to shrubland**Veg Condition:** Pristine - Excellent: **Pentaschistis airoides* present**Fire Age:** Very long unburnt**Notes:** On weathered breakaway, surface ranges between the stony plain on top (angular to sub-angular stones, almost covering the surface with 10-200mm diameter rocks), outcropping breakaway surface of highly weathered granite with high lichen and moss cover. Drainage focus of granite detritals, 2-100 mm diameter angular to sub-rounded coarse fragments with algal crusting. Wash plain of York Gum with surface of coarse detritals, 2-100 mm diameter angular to sub-rounded fragments and some algal crusting. Leaf litter focused beneath vegetation.**SPECIES LIST:**

<i>Acacia andrewsii</i>	<i>Eremophila latrobei</i> subsp. <i>latrobei</i>
<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>
<i>Acacia cockertoniana</i>	<i>Eremophila pantonii</i>
<i>Acacia effusifolia</i>	<i>Eriochiton sclerolaenoides</i>
<i>Acacia mulganeura</i>	<i>Erymophyllum ramosum</i> subsp. <i>ramosum</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Exocarpos aphyllus</i>
<i>Acacia tetragonophylla</i>	<i>Frankenia</i> sp. 2 (pending det. M. Lyon)
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	<i>Grevillea extorris</i>
<i>Alyxia buxifolia</i>	<i>Hyalosperma demissum</i>
<i>Austrodanthonia</i> ? <i>setacea</i>	<i>Melaleuca leiocarpa</i>
<i>Brachyscome perpusilla</i> var. <i>tenella</i>	<i>Millotia perpusilla</i>
? <i>Caesia</i> sp. (sterile material)	<i>Monachather paradoxus</i>
<i>Calandrinia</i> sp.	<i>Olearia humilis</i>
<i>Callitris columellaris</i>	<i>Olearia muelleri</i>
<i>Chamaexeros fimbriata</i>	<i>Olearia pimeleoides</i>
<i>Cheilanthes adiantoides</i>	<i>Pentaschistis airoides</i> subsp. <i>airoides</i>
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	<i>Philoteca brucei</i> subsp. <i>brucei</i>
<i>Cleretum papulosum</i> subsp. <i>papulosum</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Comesperma integerrimum</i>	<i>Rhagodia</i> ? <i>drummondii</i>
<i>Crassula</i> ? <i>extrorsa</i>	<i>Rhodanthe oppositifolia</i>
<i>Crassula colorata</i> var. <i>acuminata</i>	<i>Santalum spicatum</i>
<i>Cyanicula amplexans</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Daucus glochidiatus</i>	<i>Sclerolaena diacantha</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)
<i>Dodonaea inaequifolia</i>	<i>Solanum ellipticum</i>
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	<i>Spartothamnella teucriiflora</i>
<i>Enchylaena lanata</i>	<i>Thyridolepis mitchelliana</i>
<i>Eremophila clarkei</i>	<i>Tripogon loliiformis</i>

Deception Deposit Flora Site: DEC-R47

Described by: MM/BE **Date:** 27/08/2010 **Type:** Relevé
MGA Zone: 50 718000 mE 6683953 mN
Habitat: Flats above granite breakaway, slope 1 degree
Soil: Yellow loamy sand with surface of almost continuous ironstone pisolite (duricrust remnant?) and quartz gravel, sub-rounded to rounded coarse fragments 2-40 mm diameter; some algal and lichen crusting
Vegetation: *Acacia cockertoniana*, *A. effusifolia* tall shrubland over *Eremophila forrestii* subsp. *forrestii*, *Philotheca brucei* subsp. *brucei*, *Leucopogon* sp. Clyde Hill shrubland over *Euryomyrtus patrickiae* scattered low shrubs
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: Leaf litter focused beneath shrubs

SPECIES LIST:

<i>Acacia incurvaneura</i> x ?	<i>Euryomyrtus patrickiae</i>
<i>Acacia cockertoniana</i>	<i>Gilruthia osbornei</i>
<i>Acacia effusifolia</i>	<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)
<i>Acacia quadrimarginea</i>	<i>Philotheca brucei</i> subsp. <i>brucei</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Prostanthera campbellii</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Prostanthera grylloana</i>
<i>Calocephalus multiflorus</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Thysanotus manglesianus</i>
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Eremophila latrobei</i> subsp. <i>latrobei</i>	

Deception Deposit Flora Site: DEC-R48

Described by: MM/BE **Date:** 27/08/2010 **Type:** Relevé
MGA Zone: 50 718067 mE 6683788 mN
Habitat: Flats above granite breakaway, slope 1 degree
Soil: Yellow loamy sand with surface of almost continuous ironstone pisolite (duricrust remnant?) and quartz gravel, sub-rounded to rounded coarse fragments 2-40 mm diameter; some algal and lichen crusting
Vegetation: *Acacia effusifolia* tall open shrubland over *Grevillea erectiloba*, *Baekkea elderiana*, *Malleostemon tuberculatus* shrubland over *Amphipogon caricinus* var. *caricinus* very open grassland
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: Leaf litter focused beneath shrubs

SPECIES LIST:

<i>Acacia incurvaneura</i> x ?	<i>Grevillea erectiloba</i>
<i>Acacia effusifolia</i>	<i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i>
<i>Acacia resinosa</i>	<i>Keraudrenia velutina</i> subsp. <i>velutina</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)
<i>Austrostipa</i> ? <i>scabra</i>	<i>Malleostemon tuberculatus</i>
<i>Baekkea elderiana</i>	<i>Mirbelia microphylla</i>
<i>Borya constricta</i>	<i>Monachather paradoxus</i>
<i>Callitris columellaris</i>	<i>Olearia pimeleoides</i>
<i>Calocephalus multiflorus</i>	<i>Philotheca deserti</i> subsp. ?nov.
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Prostanthera campbellii</i>
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	<i>Stylidium dielsianum</i>
<i>Euryomyrtus patrickiae</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>

Deception Deposit Flora Site: DEC-R49

Described by: MM/BE **Date:** 27/08/2010 **Type:** Relevé
MGA Zone: 50 718021 mE 6683309 mN
Habitat: Sandy flats, slope 1 degree
Soil: Orange clayey sand with surface of fine gravel/coarse sand of ironstone and quartz lag gravel, sub-angular to rounded coarse fragments 2-5 mm diameter; algal crusting between gravels
Vegetation: *Eucalyptus celastroides* subsp. *celastroides* very open tree mallee over *Acacia ramulosa* var. *ramulosa* tall open shrubland over *Philotheca brucei* subsp. *brucei*, *Dodonaea rigida* shrubland
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: Leaf litter focused beneath vegetation, particularly under Eucalypts

SPECIES LIST:

<i>Acacia cockertoniana</i>	<i>Comesperma integerrimum</i>
<i>Acacia colletioides</i>	<i>Dianella revoluta</i> var. <i>divaricata</i>
<i>Acacia effusifolia</i>	<i>Dodonaea rigida</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Eremophila decipiens</i> subsp. <i>decipiens</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Eremophila eriocalyx</i>
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	<i>Eremophila forrestii</i> subsp. <i>forrestii</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Eremophila granitica</i>
<i>Austrostipa elegantissima</i>	<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>
<i>Brachychiton gregorii</i>	<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>
<i>Callitris columellaris</i>	<i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i>
<i>Calocephalus multiflorus</i>	<i>Monachather paradoxus</i>

<i>Olearia humilis</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Olearia muelleri</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Olearia pimeleoides</i>	<i>Solanum nummularium</i>
<i>Philothea brucei</i> subsp. <i>brucei</i>	<i>Stenopetalum filifolium</i>
<i>Prostanthera grylloana</i>	<i>Thysanotus manglesianus</i>
<i>Psyrax suaveolens</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	<i>Westringia cephalantha</i> var. <i>cephalantha</i>

Deception Deposit Flora Site: DEC-R50**Described by:** MM/BE **Date:** 27/08/2010 **Type:** Relevé**MGA Zone:** 50 718058 mE 6682825 mN**Habitat:** Flats, slope 1 degree**Soil:** Yellow loamy sand with surface of pisolitic gravels over yellow sands; discontinuous ironstone pisolite lag gravel, sub-rounded to rounded fragments 5-20 mm diameter, and smaller quartz fraction, angular to sub-angular 2-5 mm diameter**Vegetation:** *Acacia effusifolia* tall shrubland over *Grevillea obliquistigma* subsp. *obliquistigma*, *Prostanthera grylloana* open shrubland over *Amphipogon caricinus* var. *caricinus*, *Monachather paradoxus* very open grassland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Very little algal crusting, more of a physical surface crust; leaf litter focused beneath vegetation**SPECIES LIST:**

<i>Acacia effusifolia</i>	<i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Melaleuca hamata</i>
<i>Austrostipa elegantissima</i>	<i>Monachather paradoxus</i>
<i>Calocephalus multiflorus</i>	<i>Philothea deserti</i> subsp. ?nov.
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Prostanthera campbellii</i>
<i>Eucalyptus leptopoda</i> subsp. <i>subluta</i>	<i>Prostanthera grylloana</i>
<i>Euryomyrtus patrickiae</i>	<i>Thysanotus manglesianus</i>
<i>Grevillea erectiloba</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>

Deception Deposit Flora Site: DEC-R51**Described by:** MM/BE **Date:** 27/08/2010 **Type:** Relevé**Location:** 12.3 km N of Windarling Peak, 14.8 km W of Mt Geraldine; 100.6 km NNW of Koolyanobbing mine, in the Yilgarn region of WA**MGA Zone:** 50 718029 mE 6682659 mN**Habitat:** Sandy flats, slope 1 degree**Soil:** Yellow loamy sand with surface of discontinuous ironstone pisolite lag gravel, sub-rounded to rounded 5-20 mm diameter, and smaller quartz fraction angular to sub-angular 2-5 mm diameter; very little algal crusting, more of a physical surface crust**Vegetation:** *Acacia effusifolia*, *Melaleuca hamata* tall open shrubland over *Baeckea ochropetala*, *B. elderiana* shrubland over *Amphipogon caricinus* var. *caricinus* very open grassland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Leaf litter focused beneath vegetation**SPECIES LIST:**

<i>Acacia effusifolia</i>	<i>Eucalyptus leptopoda</i> subsp. <i>subluta</i>
<i>Acacia longispinea</i>	<i>Gnephosis tenuissima</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Grevillea erectiloba</i>
<i>Baeckea elderiana</i>	<i>Grevillea obliquistigma</i> subsp. <i>obliquistigma</i>
<i>Baeckea ochropetala</i>	<i>Melaleuca hamata</i>
<i>Calocephalus multiflorus</i>	<i>Philothea deserti</i> subsp. ?nov.
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>

Deception Deposit Flora Site: DEC-R52**Described by:** MM/BE **Date:** 27/08/2010 **Type:** Relevé**MGA Zone:** 50 717976 mE 6682477 mN**Habitat:** Flats, slope 1 degree**Soil:** Red/brown sand with a surface of coarse sand, mainly quartz sub-angular to sub-rounded coarse fragments 2-4 mm; very little algal crusting**Vegetation:** *Eucalyptus formanii*, *E. concinna* low open woodland over *Eremophila caperata*, *Westringia cephalantha* var. *cephalantha* open shrubland over *Triodia tomentosa* open hummock grassland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Leaf litter focused beneath Eucalypts**SPECIES LIST:**

<i>Acacia colletioides</i>	<i>Comesperma integerimum</i>
<i>Acacia effusifolia</i>	<i>Dianella revoluta</i> var. <i>divaricata</i>
<i>Acacia tetragonophylla</i>	<i>Dodonaea rigida</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Eremophila caperata</i>
<i>Aristida contorta</i>	<i>Eucalyptus concinna</i>
<i>Callitris columellaris</i>	<i>Eucalyptus formanii</i>

Gilberta tenuifolia
Gilruthia osbornei
Gnephosis tenuissima
Hakea minyma
Monachather paradoxus
Olearia exiguifolia
Olearia muelleri
Olearia pimeleoides
Phebalium canaliculatum

Phebalium tuberculosum
Podolepis capillaris
Ptilotus drummondii
Santalum spicatum
Senna artemisioides subsp. *filifolia*
Stylidium dielsianum
Thysanotus manglesianus
Triodia tomentosa
Waitzia acuminata var. *acuminata*
Westringia cephalantha var. *cephalantha*

Deception Deposit Flora Site: DEC-R53

Described by: MM/BE **Date:** 27/08/2010 **Type:** Relevé
MGA Zone: 50 718024 mE 6682218 mN
Habitat: Flats, slope 1 degree
Soil: Orange sand with surface of coarse sand, mainly quartz, sub-angular to sub-rounded coarse fragments 2-3 mm diameter; very little algal crusting, mainly physical crust
Vegetation: *Acacia effusifolia* tall open shrubland over *Thryptomene kochii* shrubland over *Euryomyrtus patrickiae* low open shrubland over *Triodia tomentosa* open hummock grassland
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: Very little leaf litter, focused beneath vegetation

SPECIES LIST:

<i>Acacia effusifolia</i>	<i>Leptospermum fastigiatum</i>
<i>Aluta aspera</i> subsp. <i>aspera</i>	<i>Monachather paradoxus</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Phebalium canaliculatum</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Philothea deserti</i> subsp. ? nov.
<i>Eucalyptus leptopoda</i> subsp. <i>subluta</i>	<i>Prostanthera campbellii</i>
<i>Euryomyrtus patrickiae</i>	<i>Thryptomene kochii</i>
<i>Gilberta tenuifolia</i>	<i>Thysanotus manglesianus</i>
<i>Gnephosis tenuissima</i>	<i>Triodia tomentosa</i>
<i>Grevillea acacioides</i>	

Deception Deposit Flora Site: DEC-R54

Described by: MM/BE **Date:** 27/08/2010 **Type:** Relevé
MGA Zone: 50 718007 mE 6681715 mN
Habitat: Flats, slope 1 degree
Soil: Red/brown clayey sand with surface of discontinuous ironstone lag fine gravel/coarse sand, sub-angular to sub-rounded coarse ironstone and quartz fragments 2-4 mm diameter; some algal crusting, mainly physical surface crust
Vegetation: *Eucalyptus formanii* low open woodland and *E. celastroides* subsp. *celastroides* very open tree mallee over *Philothea brucei* subsp. *brucei*, *Westringia cephalantha* var. *cephalantha*, *Olearia pimeleoides* shrubland over *O. exiguifolia* scattered low shrubs
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: Leaf litter focused beneath vegetation, particularly the Eucalypts

SPECIES LIST:

<i>Acacia effusifolia</i>	<i>Monachather paradoxus</i>
<i>Acacia incurvaneura</i> x ?	<i>Olearia exiguifolia</i>
<i>Acacia mulganeura</i>	<i>Olearia humilis</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Olearia muelleri</i>
<i>Acacia tetragonophylla</i>	<i>Olearia pimeleoides</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Philothea brucei</i> subsp. <i>brucei</i>
<i>Austrostipa elegantissima</i>	<i>Philothea tomentella</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Prostanthera grylloana</i>
<i>Callitris columellaris</i>	<i>Psydrax suaveolens</i>
<i>Calocephalus multiflorus</i>	<i>Ptilotus drummondii</i>
<i>Eremophila caperata</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Scaevola spinescens</i> (broad leaf, non-spiny form)
<i>Eremophila eriocalyx</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	<i>Westringia cephalantha</i> var. <i>cephalantha</i>
<i>Eucalyptus formanii</i>	

Deception Deposit Flora Site: DEC-R55

Described by: MM/BE **Date:** 27/08/2010 **Type:** Relevé
MGA Zone: 50 718038 mE 6680607 mN
Habitat: Flats, slope 1 degree
Soil: Red/brown sandy loam with surface of discontinuous Fe lag gravel, sub-angular to rounded coarse fragments 2-10 mm diameter; some algal crusting, mainly physical surface crust
Vegetation: *Acacia effusifolia* tall shrubland over *Prostanthera grylloana* open shrubland over *Wrixonia prostantheroides* low open shrubland over *Amphipogon caricinus* var. *caricinus*, *Monachather paradoxus* very open grassland

Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: Scattered emergent *Eucalyptus leptopoda* subsp. *subluta* mallees in this vegetation unit (none in relevé). Leaf litter focused beneath vegetation

SPECIES LIST:

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Monachather paradoxus</i>
<i>Acacia effusifolia</i>	<i>Olearia pimeleoides</i>
<i>Acacia mulganeura</i>	<i>Olearia stuartii</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Philoteca deserti</i> subsp. ?nov.
<i>Austrostipa</i> ? <i>scabra</i>	<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>
<i>Calocephalus multiflorus</i>	<i>Prostanthera grylloana</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Scaevola spinescens</i> (broad leaf, non-spiny form)
<i>Eremophila eriocalyx</i>	<i>Thysanotus manglesianus</i>
<i>Euryomyrtus patrickiae</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Grevillea erectiloba</i>	<i>Wrixonia prostantheroides</i>

Deception Deposit Flora Site: DEC-R56

Described by: BEJWM **Date:** 25/09/2010 **Type:** Relevé
MGA Zone: 50 717979 mE 6680392 mN
Habitat: Flats, slope 1 degree
Soil: Red/brown sandy loam with surface of discontinuous Fe lag gravel, sub-angular to sub-rounded coarse fragments 2-15mm diameter, algal crusting present
Vegetation: *Eucalyptus loxophleba* subsp. *lissophloia*, *E. celastroides* subsp. *celastroides* very open tree mallee over *Acacia* sp. narrow phyllode, *A. obtecta*, *Eremophila caperata* tall open shrubland over *Eremophila decipiens* subsp. *decipiens*, *Senna artemisioides* subsp. *filifolia* open shrubland over *Olearia muelleri* low open shrubland over *Austrostipa elegantissima* scattered grasses
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: Leaf litter focused beneath vegetation, particularly under *Eucalypts*

SPECIES LIST:

<i>Acacia colletioides</i>	<i>Grevillea nematophylla</i> subsp. <i>nematophylla</i>
<i>Acacia obtecta</i>	<i>Maireana trichoptera</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Monachather paradoxus</i>
<i>Acacia tetragonophylla</i>	<i>Olearia muelleri</i>
<i>Aristida contorta</i>	<i>Olearia pimeleoides</i>
<i>Austrostipa elegantissima</i>	<i>Philoteca brucei</i> subsp. <i>brucei</i>
<i>Brachychiton gregorii</i>	<i>Ptilotus drummondii</i>
<i>Callitris columellaris</i>	<i>Ptilotus exaltatus</i> var. <i>villosus</i>
<i>Calocephalus multiflorus</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Chamaexeros fimbriata</i>	<i>Rhagodia</i> ? <i>drummondii</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Scaevola spinescens</i> (broad leaf, non-spiny form)
<i>Eremophila caperata</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)
<i>Eremophila eriocalyx</i>	<i>Stenopetalum filifolium</i>
<i>Eucalyptus celastroides</i> subsp. <i>celastroides</i>	<i>Thysanotus manglesianus</i>
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	<i>Westringia cephalantha</i> var. <i>cephalantha</i>
<i>Exocarpos aphyllus</i>	<i>Zygophyllum apiculatum</i>

Deception Deposit Flora Site: DEC-R57

Described by: BEJWM **Date:** 25/09/2010 **Type:** Relevé
MGA Zone: 50 717944 mE 6680011 mN
Habitat: Flats, slope 1 degree
Soil: Red/orange sandy loam with surface of discontinuous Fe lag gravel, sub-angular to rounded coarse fragments 2-10mm diameter, algal crusting present
Vegetation: *Eucalyptus concinna* very open tree mallee over *Acacia mulganeura*, *A. ramulosa* var. *ramulosa*, *Acacia* sp. narrow phyllode, *A. obtecta* tall shrubland over *Eremophila granitica*, *Senna artemisioides* subsp. *filifolia* open shrubland
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: Leaf litter focused beneath veg, particularly under *Eucalypts*

SPECIES LIST:

<i>Acacia mulganeura</i>	<i>Dianella revoluta</i> var. <i>divaricata</i>
<i>Acacia obtecta</i>	<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Eremophila decipiens</i> subsp. <i>decipiens</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Eremophila eriocalyx</i>
<i>Acacia tetragonophylla</i>	<i>Eremophila granitica</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Eucalyptus concinna</i>
<i>Austrostipa elegantissima</i>	<i>Exocarpos aphyllus</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Grevillea nematophylla</i> subsp. <i>nematophylla</i>
<i>Bossiaea walkeri</i>	<i>Maireana georgei</i>
<i>Callitris columellaris</i>	<i>Monachather paradoxus</i>
<i>Calocephalus multiflorus</i>	<i>Olearia muelleri</i>

Olearia pimeleoides
Prostanthera grylloana
Psyrdrax suaveolens
Ptilotus exaltatus var. *villosus*

Ptilotus obovatus var. *obovatus*
Rhagodia ? *drummondii*
Senna artemisioides subsp. *filifolia*
Solanum nummularium

Deception Deposit Flora Site: DEC-R58

Described by: BEJWM **Date:** 25/09/2010 **Type:** Relevé

MGA Zone: 50 **717817 mE 6679685 mN**

Habitat: Flats, slope 1 degree

Soil: Red/orange sand with surface of discontinuous Fe lag gravel and coarse quartz fragments, sub-rounded to rounded 2-5mm diameter, algal crusting present

Vegetation: *Eucalyptus salmonophloia* open woodland over *Acacia ramulosa* var. *ramulosa*, *Acacia* sp. narrow phyllode, *A. obtecta* tall open shrubland over *Dodonaea viscosa* subsp. *angustissima*, *Senna artemisioides* subsp. *filifolia*, *Eremophila decipiens* subsp. *decipiens* shrubland over *Atriplex vesicaria*, *Olearia muelleri*, *Rhagodia* ? *drummondii*, *Maireana georgei* low open shrubland

Veg Condition: Pristine

Fire Age: Very long unburnt

Notes: Leaf litter focused beneath vegetation, particularly beneath Eucalypts

SPECIES LIST:

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Goodenia berardiana</i>
<i>Acacia jennerae</i>	<i>Maireana georgei</i>
<i>Acacia obtecta</i>	<i>Maireana trichoptera</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Monachather paradoxus</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Olearia muelleri</i>
<i>Acacia tetragonophylla</i>	<i>Olearia pimeleoides</i>
<i>Actinobole uliginosum</i>	<i>Omphalolappula concava</i>
<i>Amyema preissii</i>	<i>Pentaschistis airoides</i> subsp. <i>airoides</i>
<i>Aristida contorta</i>	<i>Podolepis canescens</i>
<i>Atriplex vesicaria</i>	<i>Podolepis capillaris</i>
<i>Austrostipa elegantissima</i>	<i>Ptilotus exaltatus</i> var. <i>villosus</i>
<i>Austrostipa scabra</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Calandrinia eremaea</i>	<i>Rhagodia</i> ? <i>drummondii</i>
<i>Cephalopterum drummondii</i>	<i>Rostraria pumila</i>
<i>Chthonocephalus pseudevax</i>	<i>Santalum acuminatum</i>
<i>Crassula colorata</i> var. <i>acuminata</i>	<i>Scaevola spinescens</i> (broad leaf, non-spiny form)
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Schoenia cassiniana</i>
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>	<i>Sclerolaena diacantha</i>
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)
<i>Erodium cygnorum</i>	<i>Solanum nummularium</i>
<i>Eucalyptus salmonophloia</i>	<i>Sonchus oleraceus</i>
<i>Eucalyptus transcontinentalis</i>	<i>Stenopetalum filifolium</i>
<i>Exocarpos aphyllus</i>	<i>Vittadinia humerata</i>

Deception Deposit Flora Site: DEC-R59

Described by: BEJWM **Date:** 25/09/2010 **Type:** Relevé

MGA Zone: 50 **717645 mE 6679088 mN**

Habitat: Flats, slope 1 degree

Soil: Red/brown sandy clay loam with surface of discontinuous Fe lag gravel and coarse quartz fragments, sub-rounded to rounded 2-5mm diameter, abundant algal crusting

Vegetation: *Eucalyptus salubris* low open woodland over *Eremophila scoparia* open shrubland over *Olearia muelleri*, *Atriplex vesicaria*, *Maireana georgei* low shrubland

Veg Condition: Pristine

Fire Age: Very long unburnt

Notes: Leaf litter focused beneath vegetation, particularly under Eucalypts

SPECIES LIST:

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Erodium cygnorum</i>
<i>Acacia mulganeura</i>	<i>Eucalyptus salubris</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Maireana georgei</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Menkea australis</i>
<i>Acacia tetragonophylla</i>	<i>Monachather paradoxus</i>
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	<i>Olearia muelleri</i>
<i>Atriplex vesicaria</i>	<i>Ptilotus exaltatus</i> var. <i>villosus</i>
<i>Austrostipa elegantissima</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Austrostipa platychaeta</i>	<i>Scaevola spinescens</i> (broad leaf, non-spiny form)
<i>Austrostipa scabra</i>	<i>Sclerolaena diacantha</i>
<i>Cephalopterum drummondii</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Crassula colorata</i> var. <i>acuminata</i>	<i>Senna cardiosperma</i>
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	<i>Solanum nummularium</i>
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Zygophyllum aurantiacum</i>
<i>Eremophila scoparia</i>	

Deception Deposit Flora Site: DEC-R60**Described by:** BEJWM **Date:** 26/09/2010 **Type:** Relevé**MGA Zone:** 50 716973 mE 6676706 mN**Habitat:** Undulating flats, near broad drainage zone to the west of W2 dump; slope 2 degrees**Soil:** Red/brown sandy loam with surface of discontinuous Fe lag gravel coarse fragments, sub-angular to sub-rounded 2-30 mm diameter; algal crusting present**Vegetation:** *Acacia incurvaneura* x ?, *A. caesaneura* (narrow phyllode variant), *A. ramulosa* var. *ramulosa* tall shrubland over *Cryptandra connata*, *Eremophila eriocalyx*, *E. granitica* open shrubland over *Dianella revoluta* var. *divaricata*, *Cheilanthes sieberi* subsp. *sieberi*, *Waitzia acuminata* var. *acuminata* very open herbland and *Austrostipa* ? *scabra*, *Amphipogon caricinus* var. *caricinus*, *Monachather paradoxus* very open grassland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Leaf litter focused beneath vegetation**SPECIES LIST:**

<i>Abutilon cryptopetalum</i>	<i>Cryptandra connata</i>
<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Daucus glochidiatus</i>
<i>Acacia incurvaneura</i> x ?	<i>Dianella revoluta</i> var. <i>divaricata</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Eremophila eriocalyx</i>
<i>Acacia tetragonophylla</i>	<i>Eremophila granitica</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Erodium cygnorum</i>
<i>Austrostipa elegantissima</i>	<i>Gilberta tenuifolia</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Monachather paradoxus</i>
<i>Bellida graminea</i>	<i>Pentaschistis airoides</i> subsp. <i>airoides</i>
<i>Brachyscome ciliocarpa</i>	<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)
<i>Callitris columellaris</i>	<i>Solanum nummularium</i>
<i>Calocephalus multiflorus</i>	<i>Trachymene ornata</i>
<i>Cheilanthes adiantoides</i>	<i>Velleia rosea</i>
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Crassula colorata</i> var. <i>acuminata</i>	

Deception Deposit Flora Site: DEC-R61**Described by:** BEJWM **Date:** 26/09/2010 **Type:** Relevé**MGA Zone:** 50 717278 mE 6675990 mN**Habitat:** Undulating flats to south-west of W2 dump, slope 2 degrees**Soil:** Red/brown sandy loam with surface of discontinuous Fe lag gravel and carbonate coarse fragments, angular to sub-rounded 2-60 mm diameter; abundant algal crusting**Vegetation:** *Casuarina pauper* low open woodland over *Acacia* sp. narrow phyllode tall open shrubland over *A. acanthoclada* subsp. *glaucescens*, *Senna artemisioides* subsp. *filifolia* open shrubland over *Atriplex vesicaria*, *Olearia muelleri*, *Ptilotus obovatus* var. *obovatus* low open shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Leaf litter focused beneath vegetation, particularly under *Casuarinas***SPECIES LIST:**

<i>Acacia acanthoclada</i> subsp. <i>glaucescens</i>	<i>Eremophila decipiens</i> subsp. <i>decipiens</i>
<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Eremophila eriocalyx</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Eremophila granitica</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Exocarpos aphyllus</i>
<i>Acacia tetragonophylla</i>	<i>Maireana trichoptera</i>
<i>Atriplex vesicaria</i>	<i>Maireana triptera</i>
<i>Austrostipa elegantissima</i>	<i>Olearia muelleri</i>
<i>Austrostipa platychaeta</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Austrostipa</i> ? <i>scabra</i>	<i>Rhagodia</i> ? <i>drummondii</i>
<i>Brachychiton gregorii</i>	<i>Scaevola spinescens</i> (broad leaf, non-spiny form)
<i>Casuarina pauper</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	<i>Sclerolaena fusiformis</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)
<i>Eremophila alternifolia</i>	<i>Solanum nummularium</i>

Deception Deposit Flora Site: DEC-R62**Described by:** BEJWM **Date:** 26/09/2010 **Type:** Relevé**MGA Zone:** 50 718334 mE 6675518 mN**Habitat:** Low BIF rise to south of W2 waste dump, slope 3 degrees**Soil:** Orange sandy loam with surface of low crop of siliceous ironstone, discontinuous lag gravel coarse fragments, angular to subangular 2-400 mm diameter; abundant algal/lichen crusting between rocks/gravel**Vegetation:** *Casuarina pauper* low open woodland over *Acacia cockertoniana*, *Acacia* sp. narrow phyllode tall shrubland over *Philothea brucei* subsp. *brucei*, *Dodonaea rigida*, *Eremophila latrobei* subsp. *latrobei*, *Prostanthera althoferi* subsp. *althoferi*, *Rhagodia* ? *drummondii* shrubland**Veg Condition:** Pristine**Fire Age:** Very long unburnt**Notes:** Leaf litter focused beneath vegetation

SPECIES LIST:

Acacia cockertoniana
Acacia ramulosa var. *ramulosa*
Acacia sp. narrow phyllode (B.R. Maslin 7831)
Acacia tetragonophylla
Allocasuarina acutivalvis subsp. *acutivalvis*
Amphipogon caricinus var. *caricinus*
Austrostipa scabra
Callitris columellaris
Casuarina pauper
Cheilanthes sieberi subsp. *sieberi*
Dodonaea lobulata
Dodonaea rigida
Enchylaena tomentosa var. *tomentosa*
Eremophila clarkei
Eremophila decipiens subsp. *decipiens*
Eremophila latrobei subsp. *latrobei*
Eremophila oldfieldii subsp. *angustifolia*
Erodium cygnorum
Exocarpos aphyllus
Gilberta tenuifolia
Grevillea obliquistigma subsp. *obliquistigma*
Hakea recurva subsp. *recurva*
Leucopogon sp. Clyde Hill (M.A. Burgman 1207)
Marsdenia australis
Monachather paradoxus
Olearia humilis
Philothea brucei subsp. *brucei*
Prostanthera althoferi subsp. *althoferi*
Ptilotus obovatus var. *obovatus*
Rhagodia ? *drummondii*
Scaevola spinescens (broad leaf, non-spiny form)
Scaevola spinescens (spiny, fine leaf)
Senna artemisioides subsp. *filifolia*
Sida sp. dark green fruit (S. van Leeuwen 2260)
Solanum nummularium
Thysanotus manglesianus
Trachymene ornata
Waitzia acuminata var. *acuminata*
Zygophyllum aurantiacum

Deception Deposit Flora Site: DEC-R63

Described by: MM/BE **Date:** 18/11/2010 **Type:** Relevé
MGA Zone: 50 720255 mE 669585 mN
Habitat: Outcropping duricrust; slope 3 degrees
Soil: Orange sandy clay loam; surface is some outcrop but mainly a continuous mantle of coarse ironstone gravels, angular to sub-angular 2-30 mm diameter; no significant surface crusting; considerable lichen, particularly beneath taller vegetation
Vegetation: *Melaleuca leiocarpa*, *Eremophila latrobei* subsp. *latrobei* open shrubland
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: Low open shrubland also present containing same dominants. Leaf litter focused beneath vegetation.

SPECIES LIST:

Acacia cockertoniana
Allocasuarina acutivalvis subsp. *acutivalvis*
Amphipogon caricinus var. *caricinus*
Austrostipa tenuifolia
Calocephalus multiflorus
Chamaexeros macranthera
Crassula colorata var. *acuminata*
Daucus glochidiatus
Eremophila latrobei subsp. *latrobei*
Leucopogon sp. Clyde Hill (M.A. Burgman 1207)
Melaleuca leiocarpa
Mirbelia microphylla
Podolepis lessonii
Ptilotus obovatus var. *obovatus*
Tripogon loliformis
Waitzia acuminata var. *acuminata*

Deception Deposit Flora Site: DEC-R64

Described by: MM/BE **Date:** 18/11/2010 **Type:** Relevé
MGA Zone: 50 720391 mE 6695938 mN
Habitat: Low debris slope of low BIF outcrop; northeast facing, slope 4 degrees
Soil: Red-brown sandy loam; surface is discontinuous ironstone debris and gravel partially embedded in mantle, angular to sub-angular diameter 2-400 mm; some algal crusting in between rocks at surface, considerable lichen on rocks
Vegetation: *Ptilotus obovatus* var. *obovatus* low shrubland
Veg Condition: Pristine
Fire Age: Very long unburnt

SPECIES LIST:

Abutilon cryptopetalum
Acacia cockertoniana
Acacia ramulosa var. *ramulosa*
Acacia tetragonophylla
Austrostipa tenuifolia
Cheilanthes sieberi subsp. *sieberi*
Crassula colorata var. *acuminata*
Dianella revoluta var. *divaricata*
Dodonaea rigida
Eremophila clarkei
Lemooria burkittii
Lepidium oxytrichum
Philothea brucei subsp. *brucei*
Ptilotus obovatus var. *obovatus*
Senecio glossanthus
Sida sp. dark green fruit (S. van Leeuwen 2260)
Solanum lasiophyllum
Stenopetalum filifolium
Waitzia acuminata var. *acuminata*

Deception Deposit Flora Site: DEC-R65

Described by: MM/BE **Date:** 30/11/2010 **Type:** Relevé
MGA Zone: 50 719878 mE 6695955 mN
Habitat: Outcropping duricrust, slope 4 degrees
Soil: Orange sandy loam; outcropping and sub-outcropping duricrust and mudstone; surface is almost continuous mantle of ironstone and other debris, angular to sub-angular diameter 2-200 mm; some physical surface crust where bare, quite a few lichens on rocks

Vegetation: *Melaleuca hamata*, *Allocasuarina acutivalvis* subsp. *acutivalvis* tall open shrubland over *Melaleuca leiocarpa* open shrubland
Veg Condition: Pristine; signs of rabbits
Fire Age: Very long unburnt
Notes: May be basalt here too; strange mix of geology. Leaf litter focused beneath vegetation.

SPECIES LIST:

<i>Acacia andrewsii</i>	<i>Eremophila clarkei</i>
<i>Acacia cockertoniana</i>	<i>Eremophila metallicorum</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	<i>Exocarpos aphyllus</i>
<i>Alyxia buxifolia</i>	<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Melaleuca hamata</i>
<i>Calocephalus multiflorus</i>	<i>Melaleuca leiocarpa</i>
<i>Calytrix</i> sp.	<i>Mirbelia microphylla</i>
<i>Chamaexeros macranthera</i>	<i>Philothea brucei</i> subsp. <i>brucei</i>
	<i>Sclerolaena fusiformis</i>

Deception Deposit Flora Site: DEC-R66

Described by: MM/BE **Date:** 2/12/2010 **Type:** Relevé
MGA Zone: 50 717700 mE 6688083 mN
Habitat: Sandy flats (just to the west of low BIF hill west of Pigeon Rocks), slope 1 degree
Soil: Orange red sand with surface of coarse sand, ironstone and quartz fragments, sub-angular to sub-rounded 2-3mm diameter; physical crust present, cryptogams absent
Vegetation: *Callitris columellaris* low woodland over *Acacia mulganeura*, *A. ramulosa* var. *ramulosa* tall open shrubland over *Senna artemisioides* subsp. *filifolia* open shrubland over *Olearia pimeleoides*, *Ptilotus obovatus* var. *obovatus*, *Rhagodia ? drummondii* low open shrubland
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: Leaf litter focused beneath vegetation, particularly under *Callitris*

SPECIES LIST:

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Enchylaena lanata</i>
<i>Acacia incurvaneura</i> x ?	<i>Eremophila decipiens</i> subsp. <i>decipiens</i>
<i>Acacia ? incurvaneura</i>	<i>Eremophila forrestii</i> subsp. <i>forrestii</i>
<i>Acacia jennerae</i>	<i>Exocarpos aphyllus</i>
<i>Acacia mulganeura</i>	<i>Maireana ? villosa</i> x <i>planifolia</i>
<i>Acacia obtecta</i>	<i>Monachather paradoxus</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Olearia muelleri</i>
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)	<i>Olearia pimeleoides</i>
<i>Acacia tetragonophylla</i>	<i>Plantago debilis</i>
<i>Actinobole uliginosum</i>	<i>Podolepis capillaris</i>
<i>Alyxia buxifolia</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	<i>Rhagodia ? drummondii</i>
<i>Amyema nestor</i>	<i>Santalum spicatum</i>
<i>Austrostipa elegantissima</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Austrostipa ? scabra</i>	<i>Sclerolaena diacantha</i>
<i>Brachychiton gregorii</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Callitris columellaris</i>	<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)
<i>Calotis hispidula</i>	<i>Solanum lasiophyllum</i>
<i>Crassula colorata</i> var. <i>colorata</i>	<i>Solanum nummularium</i>
<i>Cryptandra connata</i>	<i>Stenopetalum fillifolium</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Waitzia acuminata</i> var. <i>acuminata</i>
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>	

Deception Deposit Flora Site: DEC-R67

Described by: MM/BE **Date:** 2/12/2010 **Type:** Relevé
MGA Zone: 50 717693 mE 6688464 mN
Habitat: Sandy flats (just to west of low BIF hill, west of Pigeon Rocks), slope 1 degree
Soil: Orange red sand; surface is coarse sand, ironstone and quartz fragments, sub-angular to rounded 2-10 mm diameter; physical crust present, cryptogams absent
Vegetation: *Eucalyptus corrugata* low woodland over *Acacia ramulosa* var. *ramulosa*, *A. tetragonophylla* tall open shrubland over *Westringia cephalantha* var. *cephalantha* open shrubland over *Acacia acanthoclada* subsp. *glaucescens* low shrubland
Veg Condition: Pristine
Fire Age: Very long unburnt
Notes: Leaf litter focused beneath vegetation, particularly under *Eucalypts*.

SPECIES LIST:

<i>Acacia acanthoclada</i> subsp. <i>glaucescens</i>	<i>Aristida contorta</i>
<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Austrostipa nitida</i>
<i>Acacia colletioides</i>	<i>Austrostipa nodosa</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Austrostipa platychaeta</i>
<i>Acacia tetragonophylla</i>	<i>Austrostipa scabra</i>

<i>Baekkea elderiana</i>	<i>Olearia pimeleoides</i>
<i>Brachychiton gregorii</i>	<i>Philotheca brucei</i> subsp. <i>brucei</i>
<i>Callitris columellaris</i>	<i>Podolepis capillaris</i>
<i>Calocephalus multiflorus</i>	<i>Prostanthera campbellii</i>
<i>Calytrix</i> sp. Paynes Find (F. & J. Hort 1188)	<i>Ptilotus drummondii</i>
<i>Comesperma integerrimum</i>	<i>Ptilotus gaudichaudii</i> var. <i>gaudichaudii</i>
<i>Cryptandra connata</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Rhagodia</i> ? <i>drummondii</i>
<i>Dodonaea rigida</i>	<i>Rhyncharrhena linearis</i>
<i>Eremophila decipiens</i> subsp. <i>decipiens</i>	<i>Santalum spicatum</i>
<i>Eremophila eriocalyx</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Eremophila forrestii</i> subsp. <i>forrestii</i>	<i>Sclerolaena parviflora</i>
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Eucalyptus concinna</i>	<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)
<i>Eucalyptus corrugata</i>	<i>Stenanthemum stipulosum</i>
<i>Gnephosis tenuissima</i>	<i>Stenopetalum filifolium</i>
<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)	<i>Thysanotus manglesianus</i>
<i>Marsdenia australis</i>	<i>Triodia rigidissima</i>
<i>Monachather paradoxus</i>	<i>Westringia cephalantha</i> var. <i>cephalantha</i>
<i>Olearia muelleri</i>	<i>Zygophyllum eremaum</i>

Deception Deposit Flora Site: DEC-R68

Described by	BEJWM	Date	6/04/2011	Type	Relevé
MGA Zone	50		718991 mE 6696982 mN		
Habitat	Ironstone rise; slope 3 degrees				
Soil	Orange sandy clay loam; surface is discontinuous Fe coarse fragments, 2-150 mm diameter; lichen on some rocks and some algal/cryptogam crusting on soil surface				
Vegetation	<i>Acacia cockertoniana</i> , <i>A. caesaneura</i> (narrow phyllode variant) tall shrubland over <i>Philotheca brucei</i> subsp. <i>brucei</i> shrubland over <i>Olearia humilis</i> low open shrubland with <i>Chamaexeros macranthera</i> scattered herbs				
Veg Condition	Pristine				
Fire Age	Very long unburnt				
Notes	Leaf litter focussed beneath vegetation				

SPECIES LIST:

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Eremophila clarkei</i>
<i>Acacia</i> ? <i>incurvaneura</i>	<i>Hakea recurva</i> subsp. <i>recurva</i>
<i>Acacia cockertoniana</i>	<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Melaleuca leiocarpa</i>
<i>Allocasuarina acutivalvis</i> subsp. <i>acutivalvis</i>	<i>Monachather paradoxus</i>
<i>Austrostipa elegantissima</i>	<i>Olearia humilis</i>
<i>Chamaexeros macranthera</i>	<i>Philotheca brucei</i> subsp. <i>brucei</i>
<i>Comesperma integerrimum</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)

Deception Deposit Flora Site: DEC-R69

Described by	BEJWM	Date	13/04/2011	Type	Relevé
MGA Zone	50		720341 mE 6696580 mN		
Habitat	Duricrust outcrop and associated slope on west side of main ridge; slope 3 degrees				
Soil	Orange sandy loam; surface is almost continuous Fe coarse fragments derived from weathered duricrust, 2-80mm diameter; lichen on many of the outcropping rocks and some loose rock; no noticeable algal crust				
Rock Type	Some massive outcrop in this area, as larger breakaway system				
Vegetation	<i>Melaleuca hamata</i> tall shrubland				
Veg Condition	Pristine				
Fire Age	Very long unburnt				
Notes	Leaf litter focussed beneath tall shrubs, and in small organic dams of <i>Melaleuca hamata</i> leaves accumulated by sheet flow on surface				

SPECIES LIST:

<i>Acacia andrewsii</i>
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>
<i>Melaleuca hamata</i>

Deception Deposit Flora Site: DEC-R70

Described by	BEJWM	Date	13/04/2011	Type	Relevé
MGA Zone	50		720553 mE 6696675 mN		
Habitat	Eastern mid-slope of main ridge, slope 2 degrees				
Soil	Orange sandy loam; surface is discontinuous Fe coarse fragments, both duricrust and BIF in origin, 2-100mm diameter; lichen largely absent except on the stems of older <i>Acacia</i> shrubs; algal crust minimal but present				
Vegetation	<i>Eucalyptus longissima</i> low open mallee woodland over <i>Acacia cockertoniana</i> tall shrubland over <i>Philotheca brucei</i> subsp. <i>brucei</i> , <i>Eremophila latrobei</i> subsp. <i>latrobei</i> , <i>Dodonaea rigida</i> open shrubland				

over *Olearia humilis* low open shrubland
Veg Condition Pristine
Fire Age Very long unburnt
Notes Leaf litter focussed beneath vegetation, particularly under Eucalypts and Acacias

SPECIES LIST:

<i>Acacia caesaneura</i> (narrow phyllode variant)	<i>Eremophila latrobei</i> subsp. <i>latrobei</i>
<i>Acacia cockertoniana</i>	<i>Eucalyptus longissima</i>
<i>Acacia incurvaneura</i> x ?	<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Marsdenia australis</i>
<i>Acacia tetragonophylla</i>	<i>Olearia humilis</i>
<i>Austrostipa elegantissima</i>	<i>Philotheca brucei</i> subsp. <i>brucei</i>
<i>Austrostipa scabra</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Brachychiton gregorii</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Dianella revoluta</i> var. <i>divaricata</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
<i>Dodonaea rigida</i>	<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)
<i>Eremophila clarkei</i>	

Deception Deposit Flora Site: DEC-R71

Described by BEJWM **Date** 13/04/2011 **Type** Relevé
MGA Zone 50 720428 mE 6696499 mN
Habitat Main ridge; slope 2 degrees
Soil Red-brown sandy loam; surface is some outcropping BIF, discontinuous Fe coarse fragments 2-300 mm diameter; lichen present on outcropping rocks and also on loose rocks; algal/lichen soil crust abundant
Vegetation *Acacia cockertoniana*, *Calycopeplus paucifolius* tall shrubland over *Philotheca brucei* subsp. *brucei*, *Dodonaea rigida*, *Eremophila latrobei* subsp. *latrobei* shrubland
Veg Condition Pristine
Fire Age Very long unburnt
Notes Leaf litter focussed beneath vegetation, particularly under *Acacia* and *Calycopeplus*

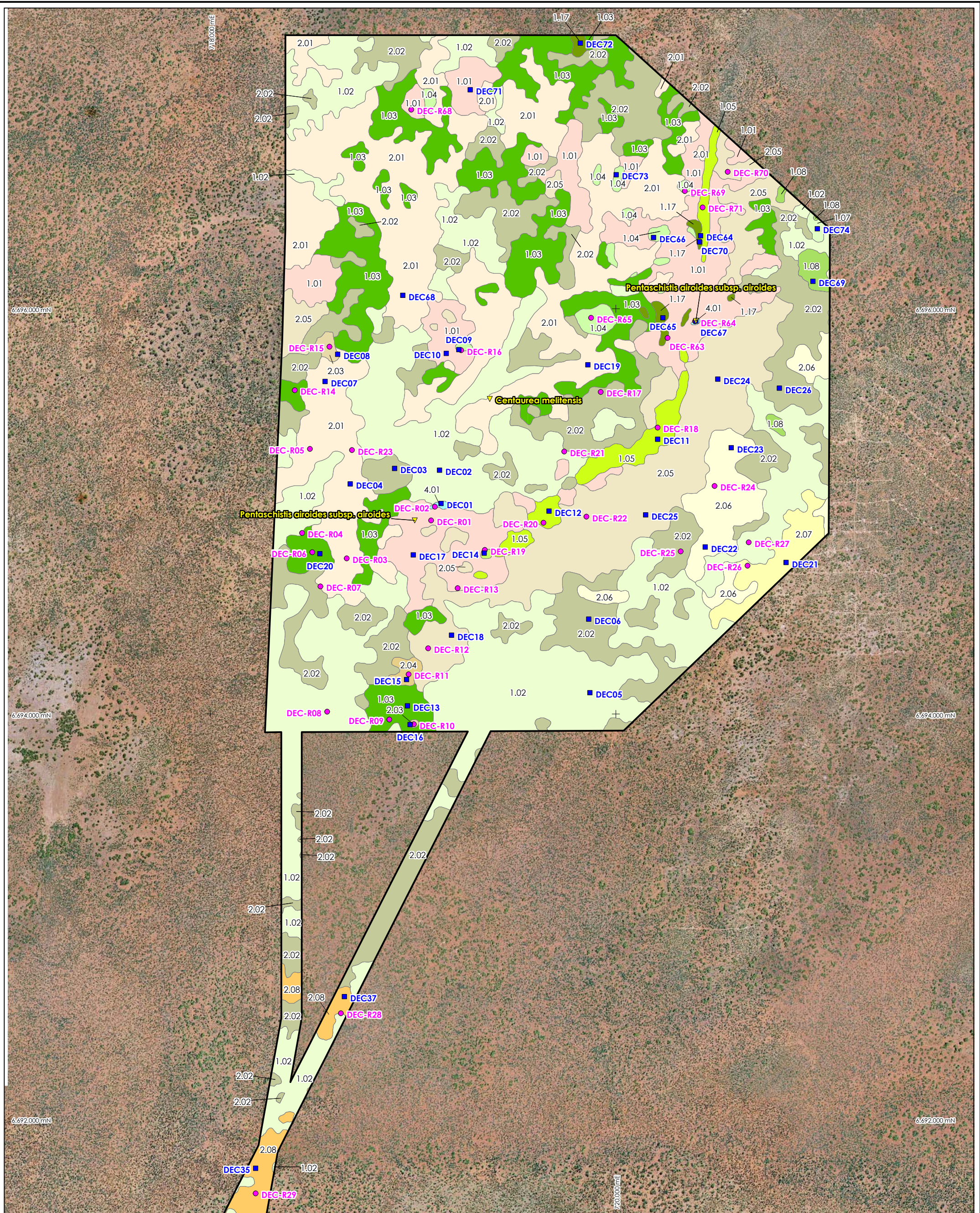
SPECIES LIST:

<i>Acacia cockertoniana</i>	<i>Eremophila latrobei</i> subsp. <i>latrobei</i>
<i>Acacia incurvaneura</i> x ?	<i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207)
<i>Acacia mulganeura</i>	<i>Olearia humilis</i>
<i>Acacia ramulosa</i> var. <i>ramulosa</i>	<i>Philotheca brucei</i> subsp. <i>brucei</i>
<i>Austrostipa scabra</i>	<i>Prostanthera althoferi</i> subsp. <i>althoferi</i>
<i>Brachychiton gregorii</i>	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
<i>Calycopeplus paucifolius</i>	<i>Scaevola spinescens</i> (spiny, fine leaf)
<i>Dodonaea rigida</i>	<i>Sida</i> sp. dark green fruit (S. van Leeuwen 2260)
<i>Eremophila clarkei</i>	

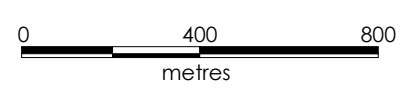
Appendix 5

Vegetation Maps for the Deception Deposit Study Area, Including Weed Locations



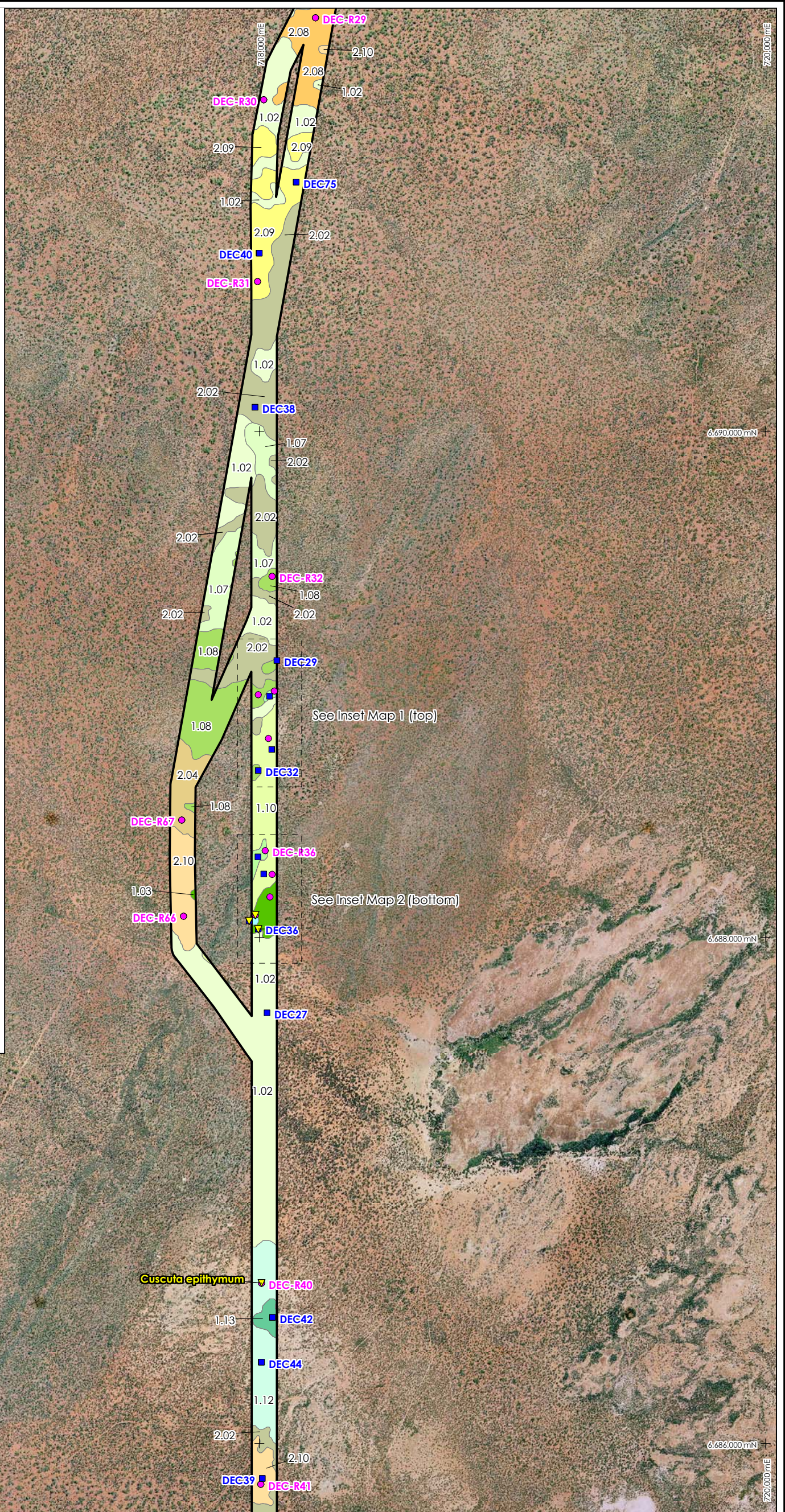
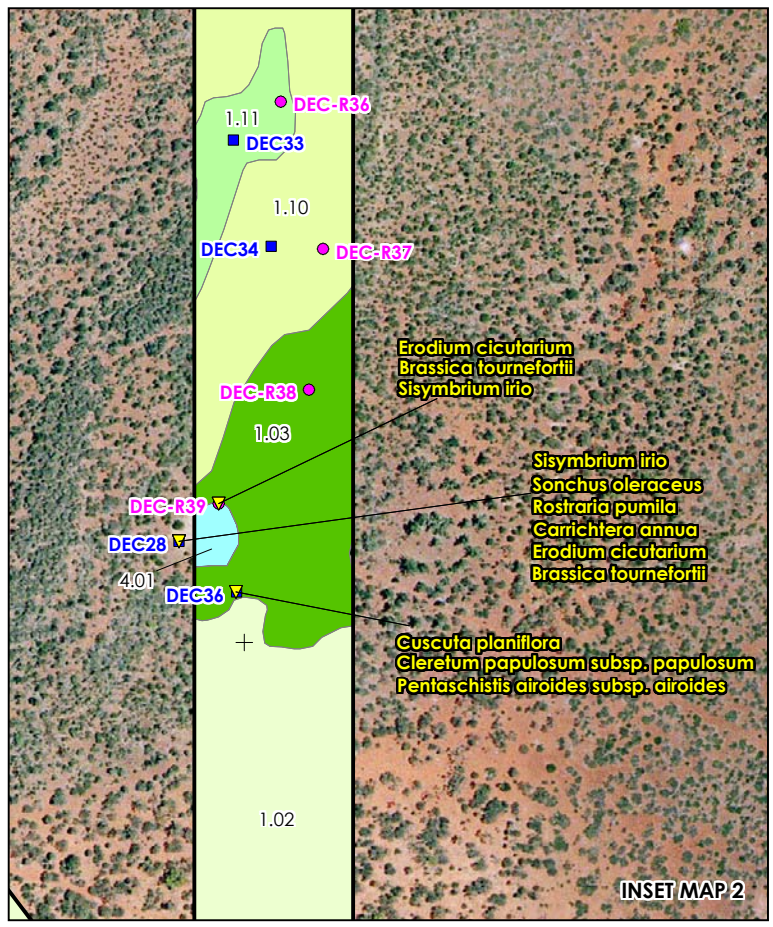
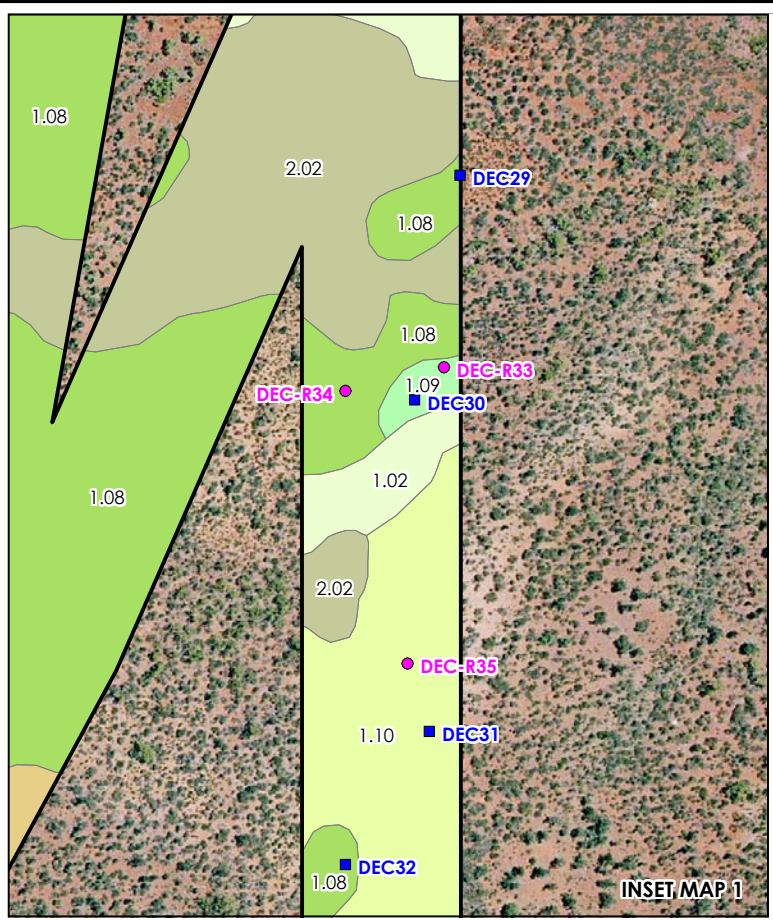


- Study area boundary
- Quadrat
- Relevé
- ▼ Weed

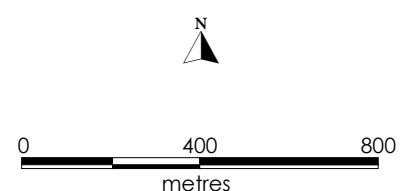


Deception Deposit Vegetation and Weeds Map 1



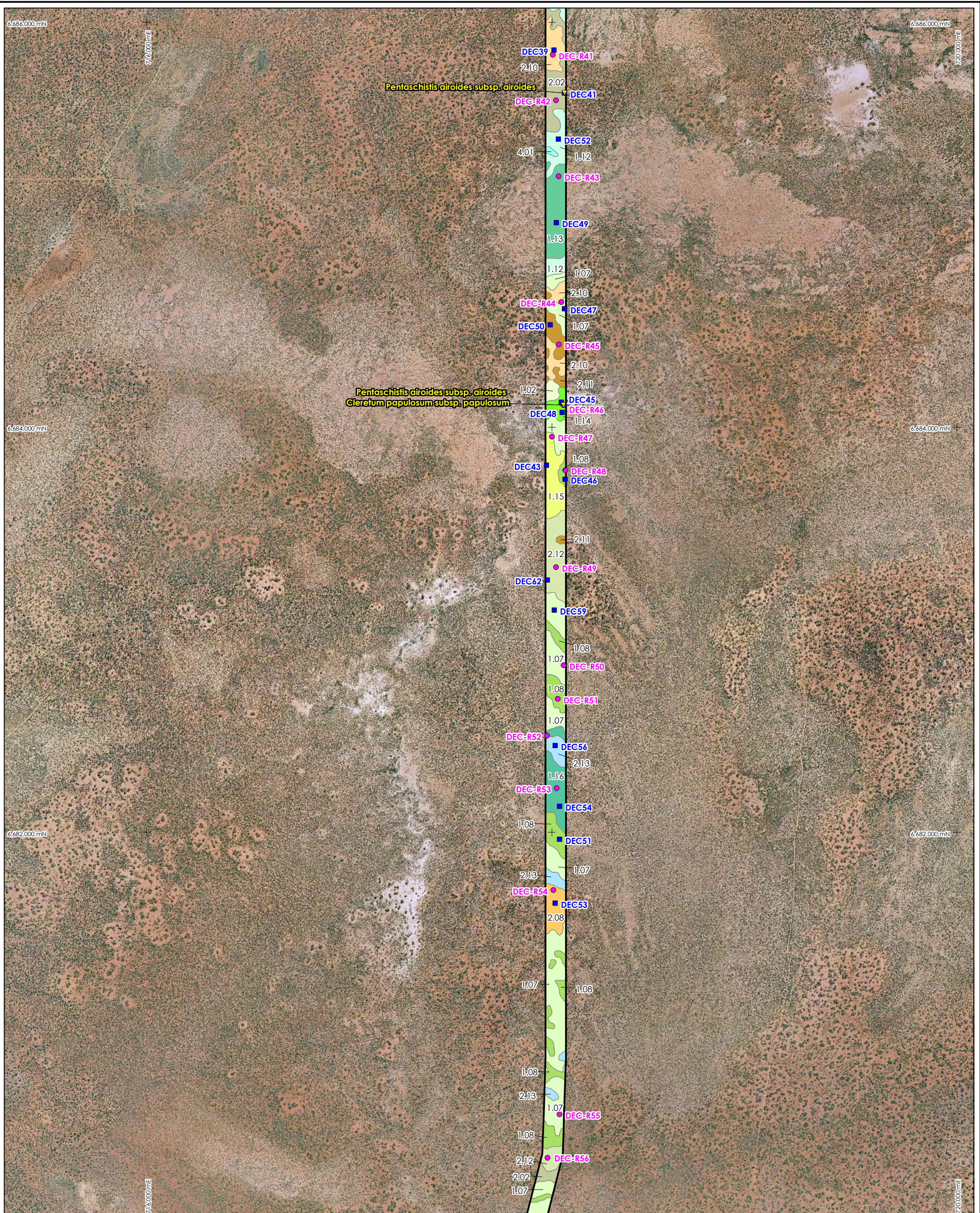


- Study area boundary
- Quadrat
- Relevé
- Weed

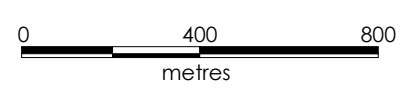


Deception Deposit Vegetation and Weed Map 2





- Study area boundary
- Quadrat
- Relevé
- ▼ Weed



Deception Deposit Vegetation and Weeds Map 3

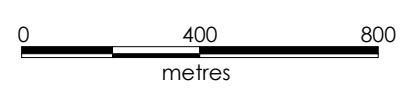




716,000 mE 718,000 mE 720,000 mE
6,680,000 mN 6,678,000 mN 6,676,000 mN



- Study area boundary
- Quadrat
- Relevé
- ▼ Weed



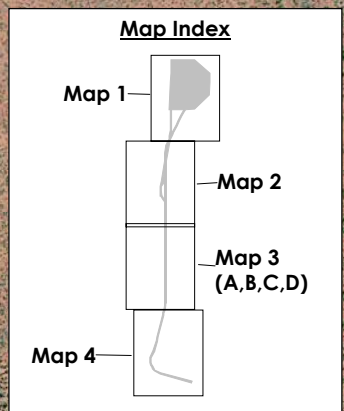
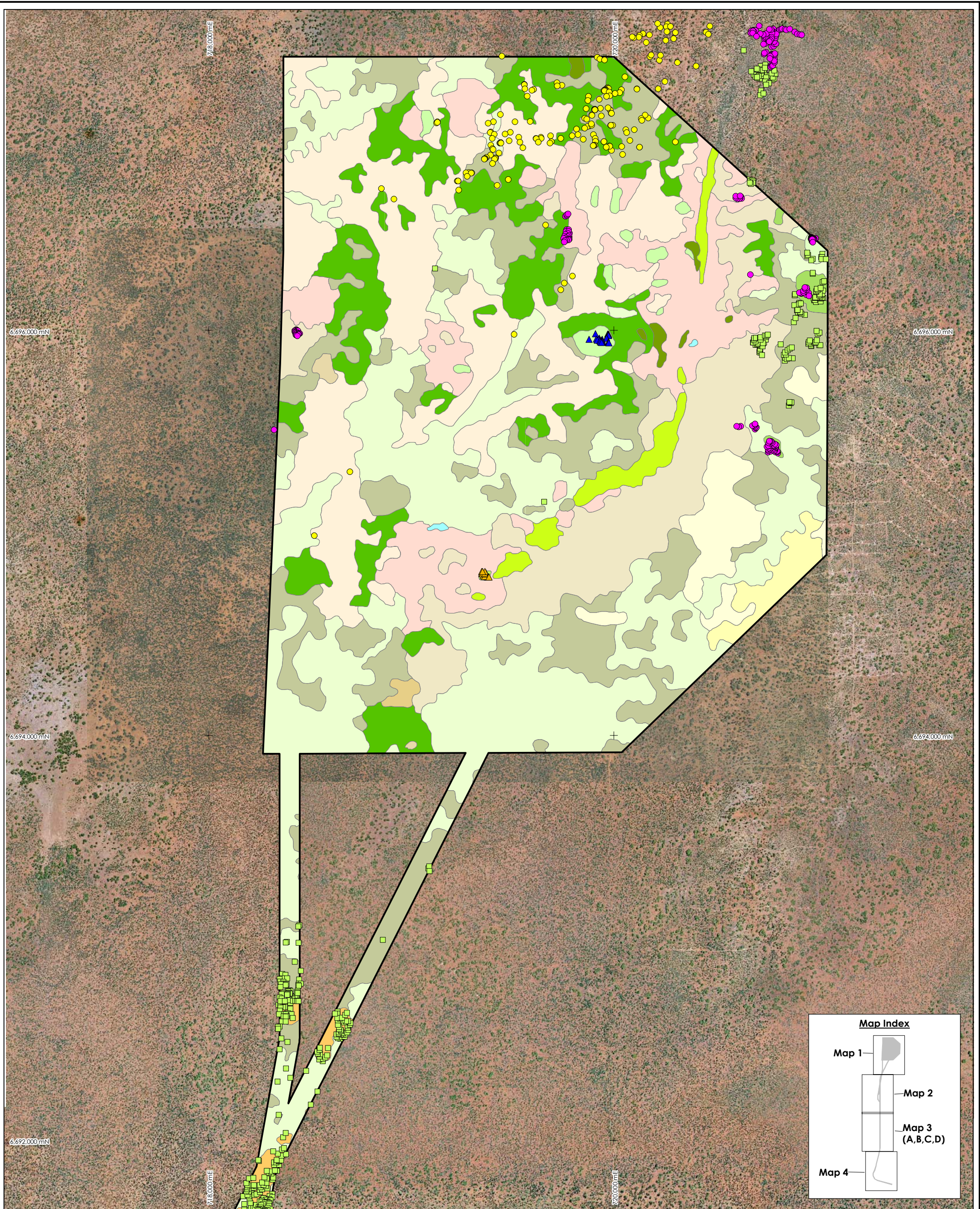
Deception Deposit Vegetation Map 4



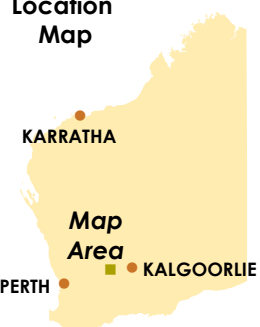
Appendix 6

Locations of Flora of Conservation Significance





Location Map



Study area boundary

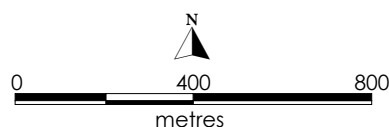
DEC-classified Priority Flora

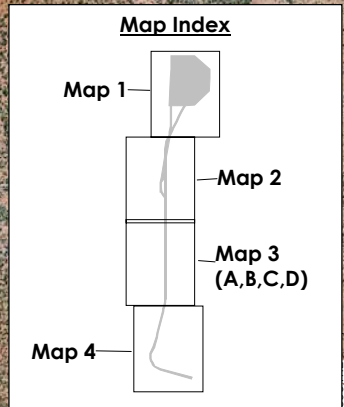
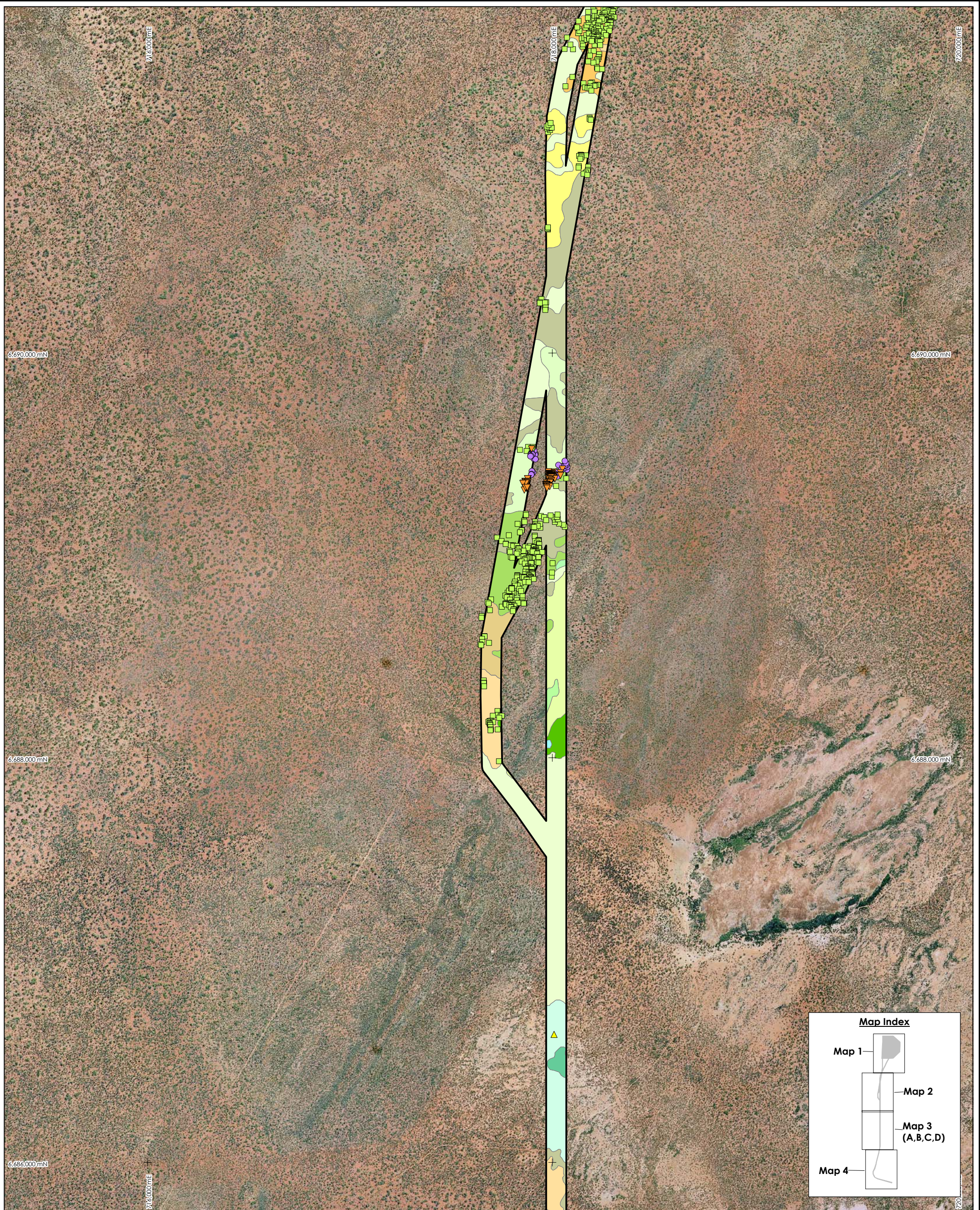
- Baeckea* sp. Parker Range (M. Hislop & F. Hort MH 2968) - P3
- Dryandra arborea* - P4
- Spartothamnella* sp. Helena & Aurora Range (P.G. Armstrong 155-109) - P3
- Eucalyptus formanii* - P4

Flora of Interest - possible new species

- Calytrix* sp. nov.

Deception Deposit - Flora of Conservation Significance Map 1





Study area boundary

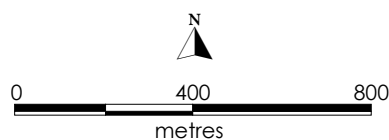
DEC-classified Priority Flora

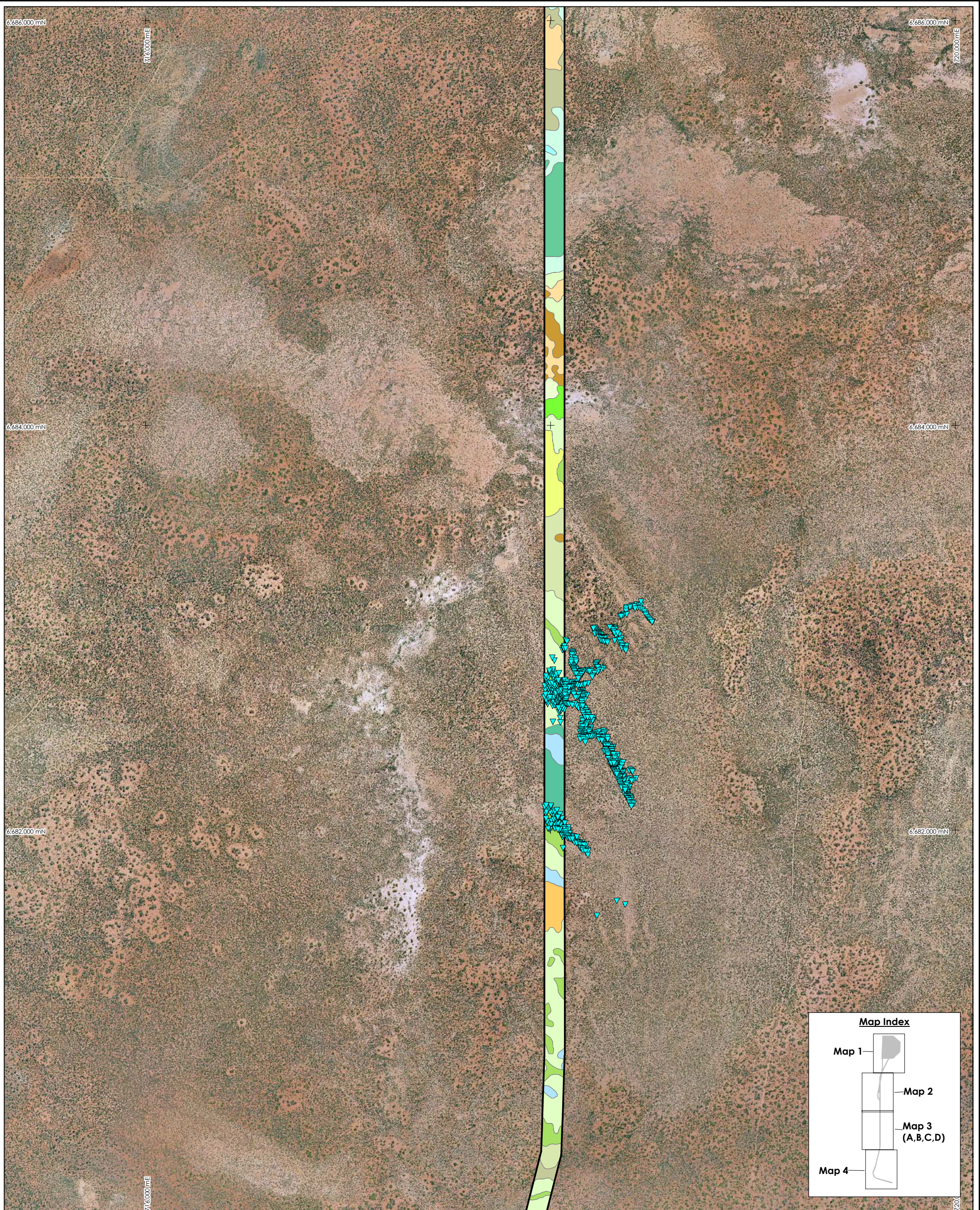
- ▼ *Philotheca coateana* - P3
- *Eucalyptus formanii* - P4
- *Grevillea erectiloba* - P4

Range extension

- ▲ *Glycine peratosa*

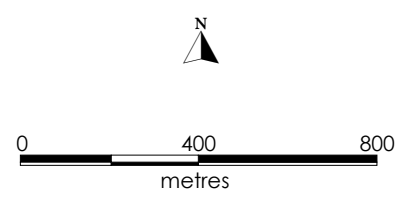
Deception Deposit - Flora of Conservation Significance Map 2





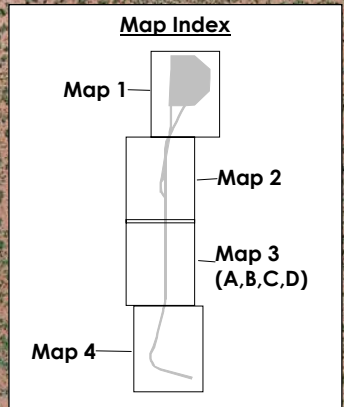
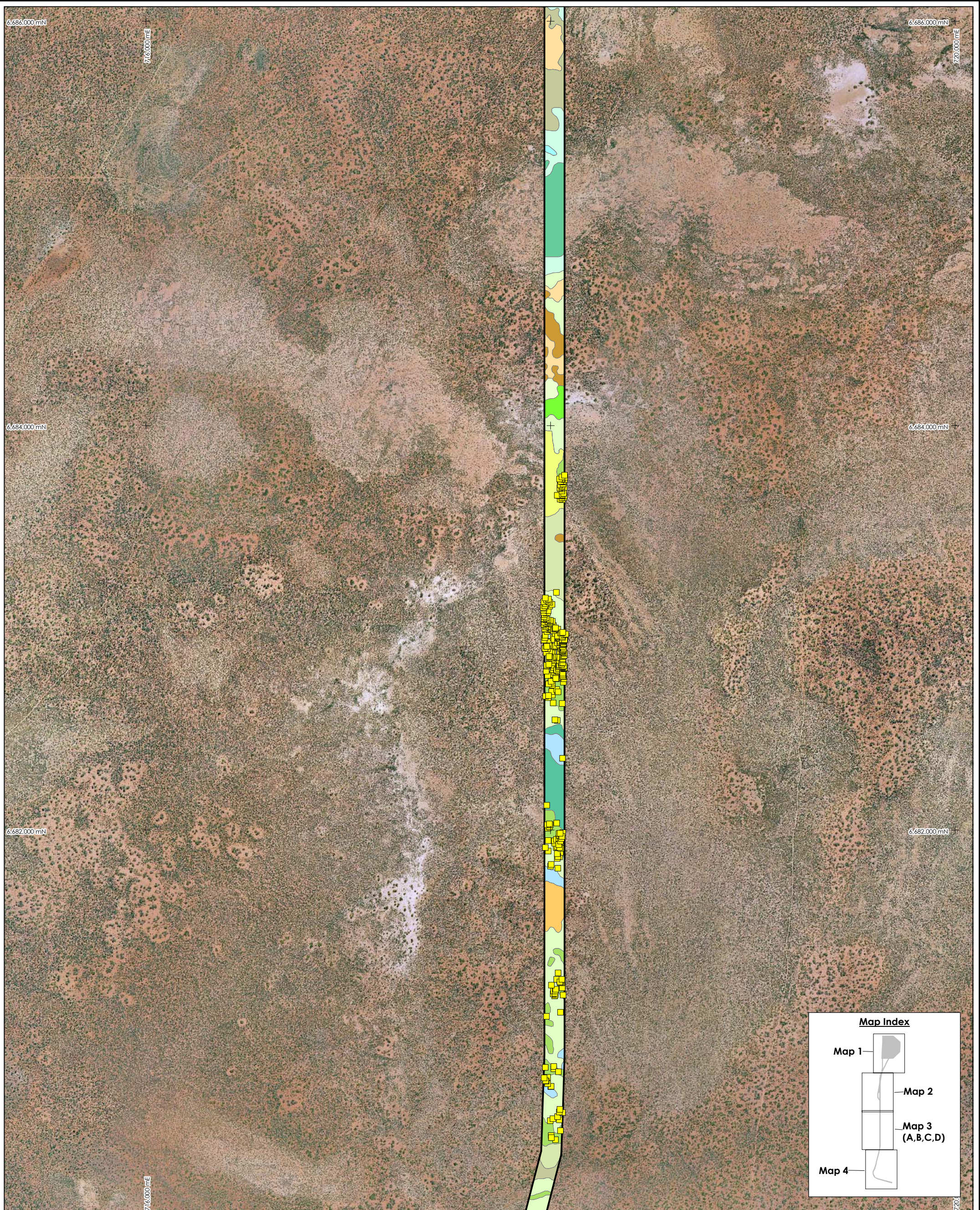
Study area boundary


DEC-classified Priority Flora
 ▼ *Baeckea ochropetala* - P1



Deception Deposit - Flora of Conservation Significance Map 3A

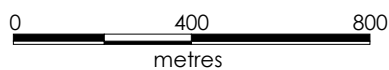




 Study area boundary

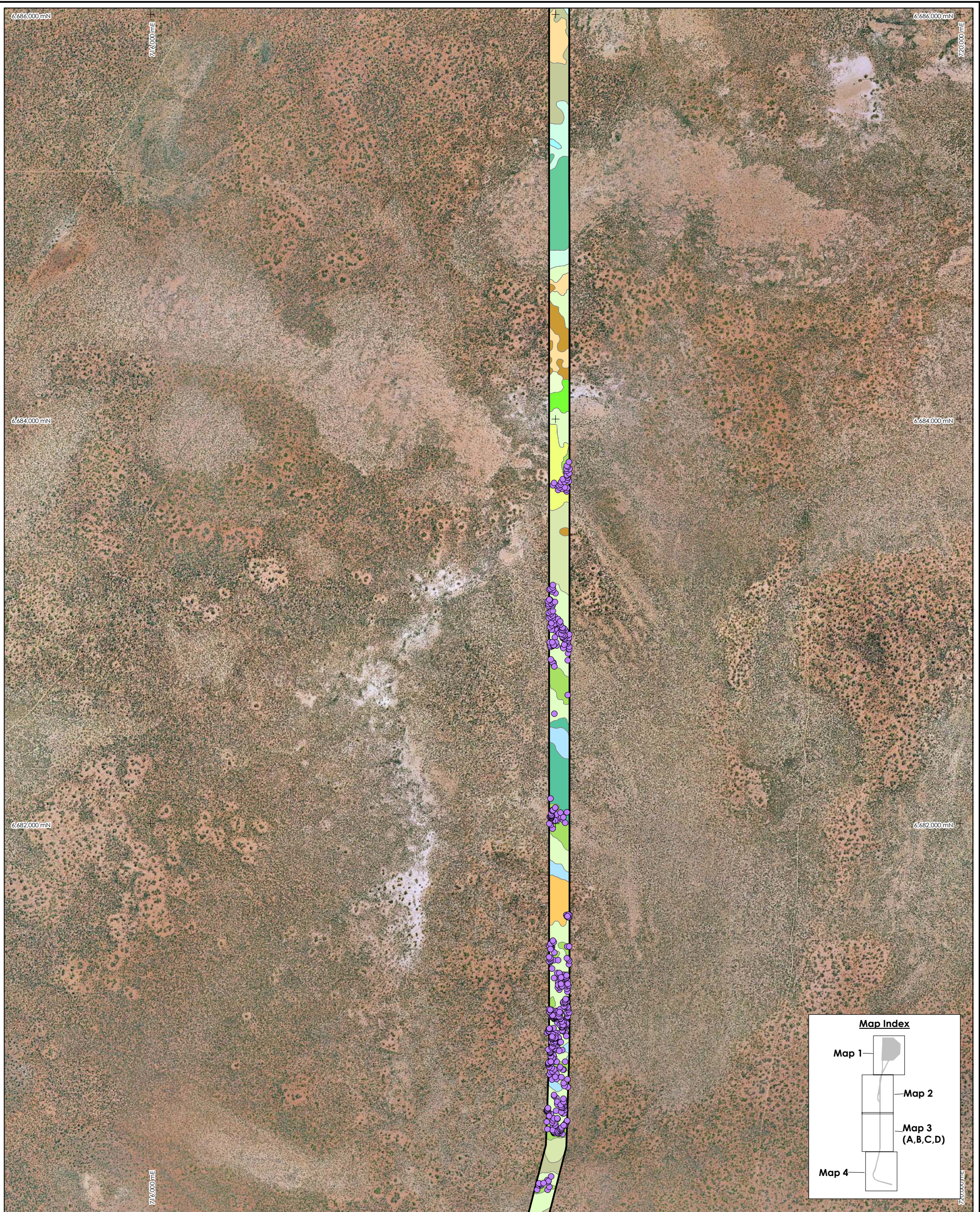
Flora of interest - possible new sub-species


 *Philotheca deserti* subsp. ?nov




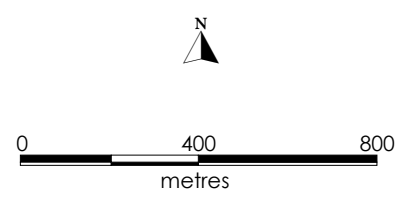
Deception Deposit - Flora of Conservation Significance Map 3B





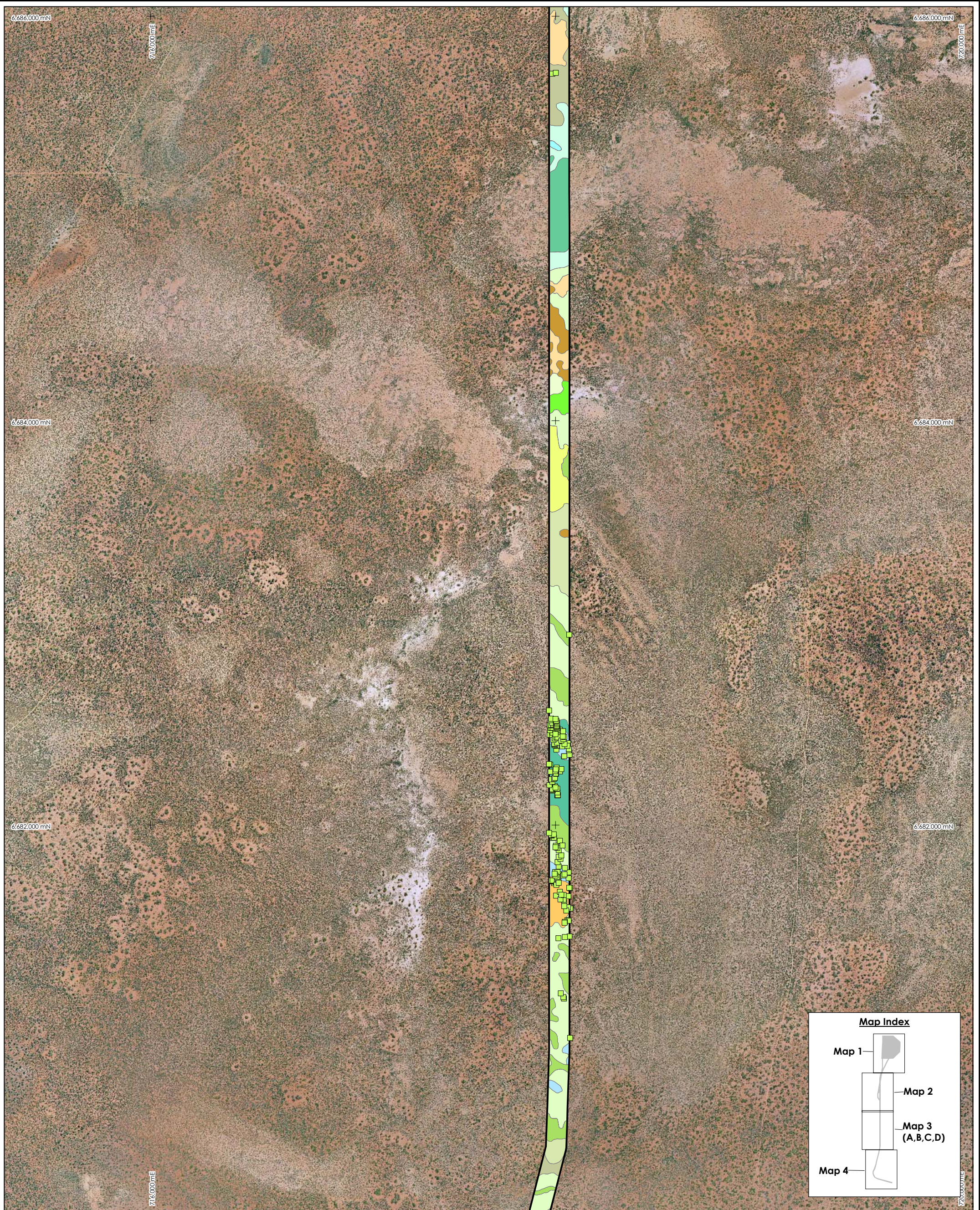
 Study area boundary


DEC-classified Priority Flora
 *Grevillea erectiloba* - P4




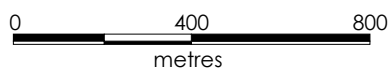
Deception Deposit - Flora of Conservation Significance Map 3C





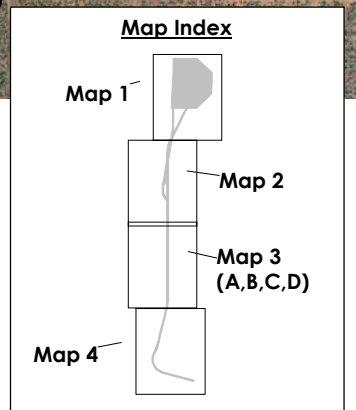
 Study area boundary


DEC-classified Priority Flora
 *Eucalyptus formanii* - P4




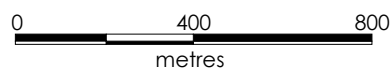
Deception Deposit - Flora of Conservation Significance Map 3D





 Study area boundary

DEC-classified Priority Flora
 *Spartothamnella* sp. Helena & Aurora Range (P.G. Armstrong 155-109) - P3



Deception Deposit - Flora of Conservation Significance Map 4



Locations of *Baeckea ochropetala* (Priority 1) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	718066	6682902	1
20101117	718063	6682900	3
20101117	718064	6682900	3
20101117	718069	6682896	6
20101117	718071	6682896	1
20101117	718066	6682894	1
20101117	718069	6682894	3
20101117	718059	6682889	1
20101117	718066	6682889	1
20101117	718008	6682852	1
20101117	718018	6682838	1
20101117	718011	6682792	1
20101117	717995	6682787	1
20101117	718011	6682782	6
20101117	717995	6682781	8
20101117	718042	6682776	1
20101117	717998	6682774	7
20101117	717996	6682772	6
20101117	718029	6682771	2
20101117	718009	6682769	28
20101117	718019	6682766	28
20101117	717979	6682762	15
20101117	718015	6682756	8
20101117	717987	6682753	5
20101117	718026	6682750	4
20101117	718028	6682749	1
20101117	717977	6682746	25
20101117	718015	6682745	3
20101117	718070	6682741	1
20101117	718038	6682740	3
20101117	718070	6682739	1
20101117	718030	6682739	4
20101117	718031	6682738	15
20101117	717980	6682737	30
20101117	718041	6682736	6
20101117	718068	6682736	3
20101117	718066	6682734	1
20101117	718068	6682733	3
20101117	718053	6682733	18
20101117	718063	6682731	5
20101117	718058	6682730	32
20101117	718033	6682728	13
20101117	717997	6682727	24
20101117	718008	6682727	22
20101117	717996	6682726	50
20101117	718050	6682725	10
20101117	717983	6682724	30
20101117	718061	6682723	13
20101117	718063	6682719	18
20101117	718053	6682718	9
20101117	718018	6682718	11
20101117	718000	6682717	16
20101117	718069	6682717	6
20101117	718030	6682716	3
20101117	718009	6682716	11
20101117	718061	6682715	9
20101117	718063	6682715	5
20101117	718065	6682715	13
20101117	717971	6682714	10
20101117	718056	6682714	13

Locations of *Baeckea ochropetala* (Priority 1) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	718069	6682714	9
20101117	718067	6682711	12
20101117	717984	6682709	15
20101117	718053	6682708	13
20101117	718064	6682708	12
20101117	717997	6682706	8
20101117	718059	6682706	11
20101117	718060	6682706	14
20101117	718065	6682706	7
20101117	718064	6682703	13
20101117	718018	6682702	20
20101117	718056	6682700	11
20101117	717999	6682699	42
20101117	717989	6682698	15
20101117	718057	6682698	8
20101117	718062	6682698	10
20101117	718055	6682697	5
20101117	718008	6682696	40
20101117	718029	6682695	18
20101117	717974	6682692	20
20101117	718052	6682692	13
20101117	717993	6682690	39
20101117	718059	6682689	20
20101117	718040	6682686	50
20101117	718049	6682686	22
20101117	718030	6682685	40
20101117	718006	6682685	69
20101117	718037	6682683	27
20101117	718064	6682681	6
20101117	718052	6682681	12
20101117	718040	6682680	10
20101117	718049	6682678	8
20101117	717995	6682678	70
20101117	718057	6682678	20
20101117	718019	6682677	51
20101117	718026	6682676	52
20101117	717987	6682675	50
20101117	718037	6682674	25
20101117	718049	6682673	5
20101117	718069	6682672	26
20101117	717975	6682671	50
20101117	718052	6682671	12
20101117	718062	6682669	45
20101117	718024	6682668	40
20101117	718009	6682667	19
20101117	718036	6682665	62
20101117	718055	6682665	15
20101117	718050	6682664	21
20101117	718069	6682661	18
20101117	718063	6682659	20
20101117	718057	6682658	24
20101117	718017	6682658	101
20101117	717969	6682658	5
20101117	718006	6682657	37
20101117	718049	6682656	28
20101117	717997	6682656	26
20101117	718036	6682655	49
20101117	718046	6682653	22
20101117	718047	6682653	14
20101117	717991	6682653	5
20101117	718069	6682653	25

Locations of *Baeckea ochropetala* (Priority 1) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	718061	6682650	14
20101117	718041	6682650	33
20101117	717988	6682650	10
20101117	718056	6682647	9
20101117	718023	6682647	57
20101117	718045	6682646	39
20101117	718050	6682645	19
20101117	718046	6682644	49
20101117	718064	6682643	35
20101117	717978	6682642	10
20101117	718042	6682640	26
20101117	718013	6682639	18
20101117	718035	6682639	65
20101117	718051	6682636	20
20101117	718061	6682636	40
20101117	717981	6682633	20
20101117	718035	6682632	55
20101117	718045	6682632	49
20101117	718023	6682629	45
20101117	718013	6682628	15
20101117	718034	6682627	24
20101117	718066	6682626	21
20101117	718038	6682625	45
20101117	718058	6682625	37
20101117	717985	6682623	2
20101117	718046	6682623	30
20101117	718046	6682623	25
20101117	718063	6682617	25
20101117	718020	6682617	7
20101117	718022	6682616	1
20101117	718043	6682615	24
20101117	718056	6682615	18
20101117	718010	6682614	3
20101117	718053	6682608	25
20101117	718038	6682604	5
20101117	718060	6682601	4
20101117	718049	6682599	15
20101117	718068	6682598	10
20101117	718067	6682595	4
20101117	718043	6682592	2
20101117	718052	6682592	10
20101117	718048	6682586	4
20101117	718041	6682583	4
20101117	718048	6682554	1
20101117	718011	6682535	1
20101117	718048	6682532	1
20101117	717979	6682123	1
20101117	718002	6682120	1
20101117	718001	6682115	2
20101117	717971	6682114	3
20101117	717997	6682109	1
20101117	717991	6682107	3
20101117	717983	6682106	10
20101117	717978	6682102	30
20101117	718031	6682099	3
20101117	718010	6682094	11
20101117	717999	6682092	8
20101117	717980	6682090	30
20101117	718021	6682089	20
20101117	717998	6682088	32
20101117	718005	6682080	22

Locations of *Baekkea ochropetala* (Priority 1) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	718045	6682079	1
20101117	717978	6682078	28
20101117	718009	6682069	29
20101117	718021	6682067	13
20101117	718035	6682064	3
20101117	718037	6682061	1
20101117	718056	6682057	1
20101117	717978	6682057	6
20101117	718037	6682057	3
20101117	718024	6682056	6
20101117	718034	6682054	8
20101117	718015	6682051	13
20101117	718004	6682045	26
20101117	718037	6682044	12
20101117	717983	6682041	10
20101117	718051	6682039	1
20101117	717983	6682038	6
20101117	718047	6682037	2
20101117	718064	6682037	1
20101117	718037	6682035	12
20101117	718059	6682035	1
20101117	718030	6682034	26
20101117	718008	6682034	18
20101117	718019	6682032	14
20101117	718039	6682032	13
20101117	718052	6682032	2
20101117	717987	6682031	10
20101117	718066	6682029	4
20101117	718001	6682026	20
20101117	718048	6682025	13
20101117	718059	6682024	3
20101117	718033	6682022	25
20101117	718048	6682021	4
20101117	718011	6682019	23
20101117	718051	6682019	15
20101117	718061	6682018	1
20101117	718023	6682017	19
20101117	718052	6682014	20
20101117	718065	6682013	1
20101117	718065	6682009	8
20101117	718022	6682008	9
20101117	718033	6682008	5
20101117	717988	6682007	3
20101117	718048	6682005	4
20101117	717997	6682003	3
20101117	718036	6682002	6
20101117	718060	6682002	19
20101117	718045	6682001	5
20101117	718055	6681999	10
20101117	718045	6681997	11
20101117	718065	6681996	5
20101117	718061	6681987	13
20101117	718069	6681987	16
20101117	718056	6681976	4
20101117	718065	6681974	14
20101117	718059	6681965	3
20101117	718061	6681911	3

Additional locations of *Baekea ochropetala* (Priority 1) recorded during the current survey work from outside the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110414	718447	6683129	5
20110414	718431	6683115	7
20110414	718424	6683114	8
20110414	718439	6683111	5
20110414	718447	6683111	7
20110414	718401	6683109	7
20110414	718411	6683105	6
20110414	718380	6683102	5
20110414	718375	6683101	4
20110414	718392	6683101	1
20110414	718429	6683099	20
20110414	718442	6683096	40
20110414	718373	6683094	5
20110414	718417	6683094	20
20110414	718454	6683089	15
20110414	718373	6683082	10
20110414	718463	6683079	20
20110414	718470	6683068	20
20110414	718363	6683067	7
20110414	718376	6683065	20
20110414	718471	6683063	20
20110414	718357	6683061	8
20110414	718342	6683058	5
20110414	718348	6683056	20
20110414	718475	6683056	20
20110414	718480	6683050	20
20110414	718487	6683042	40
20110414	718492	6683036	20
20110414	718501	6683028	20
20110414	718301	6683004	3
20110414	718292	6683002	10
20110414	718218	6683001	6
20110414	718316	6683000	4
20110414	718298	6682998	15
20110414	718212	6682996	5
20110414	718315	6682996	8
20110414	718301	6682995	15
20110414	718214	6682991	7
20110414	718319	6682991	6
20110414	718225	6682990	35
20110414	718307	6682990	10
20110414	718220	6682986	9
20110414	718224	6682981	8
20110414	718231	6682981	14
20110414	718312	6682981	20
20110414	718235	6682978	15
20110414	718226	6682977	7
20110414	718315	6682975	5
20110414	718237	6682974	5
20110414	718331	6682974	8
20110414	718233	6682971	6
20110414	718219	6682970	1
20110414	718240	6682970	20
20110414	718318	6682968	10
20110414	718248	6682967	25
20110414	718337	6682967	7
20110414	718339	6682964	7
20110414	718235	6682963	8
20110414	718251	6682963	25
20110414	718322	6682962	20

Additional locations of *Baekkea ochropetala* (Priority 1) recorded during the current survey work from outside the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110414	718323	6682960	5
20110414	718238	6682957	7
20110414	718245	6682954	6
20110414	718257	6682954	15
20110414	718239	6682953	12
20110414	718274	6682953	15
20110414	718250	6682951	7
20110414	718262	6682951	10
20110414	718266	6682948	10
20110414	718350	6682947	10
20110414	718252	6682945	6
20110414	718333	6682940	10
20110414	718340	6682940	10
20110414	718075	6682939	3
20110414	718347	6682939	10
20110414	718248	6682938	3
20110414	718258	6682936	5
20110414	718316	6682935	5
20110414	718272	6682934	8
20110414	718266	6682933	2
20110414	718281	6682932	3
20110414	718080	6682931	3
20110414	718340	6682927	7
20110414	718280	6682926	1
20110414	718349	6682922	1
20110414	718356	6682914	3
20110414	718374	6682910	7
20110414	718069	6682909	1
20110414	718354	6682908	2
20110414	718352	6682900	3
20110414	718066	6682897	10
20110414	718075	6682897	20
20110414	718366	6682896	3
20110414	718371	6682896	6
20110414	718371	6682892	7
20110414	718372	6682886	6
20110414	718104	6682883	3
20110414	718110	6682878	10
20110414	718104	6682872	15
20110414	718112	6682872	15
20110414	718115	6682868	10
20110414	718106	6682867	15
20110414	718104	6682860	5
20110414	718107	6682853	3
20110414	718120	6682849	7
20110414	718105	6682840	5
20110414	718123	6682839	3
20110414	718126	6682832	10
20110414	718102	6682831	15
20110414	718233	6682829	7
20110414	718227	6682825	10
20110414	718125	6682823	30
20110414	718108	6682821	10
20110414	718224	6682818	10
20110414	718109	6682815	20
20110414	718101	6682814	10
20110414	718222	6682814	4
20110414	718113	6682810	20
20110414	718227	6682807	6
20110414	718244	6682806	5
20110414	718106	6682804	5

Additional locations of *Baeckea ochropetala* (Priority 1) recorded during the current survey work from outside the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110414	718116	6682804	20
20110414	718233	6682804	4
20110414	718122	6682800	30
20110414	718110	6682799	30
20110414	718260	6682798	7
20110414	718127	6682795	40
20110414	718113	6682794	25
20110414	718178	6682791	6
20110414	718202	6682791	10
20110414	718250	6682791	5
20110414	718239	6682790	6
20110414	718115	6682789	20
20110414	718131	6682789	30
20110414	718160	6682789	10
20110414	718136	6682788	20
20110414	718186	6682787	3
20110414	718118	6682784	20
20110414	718143	6682784	20
20110414	718192	6682784	10
20110414	718200	6682784	10
20110414	718153	6682783	10
20110414	718162	6682782	20
20110414	718232	6682782	6
20110414	718148	6682781	15
20110414	718119	6682776	25
20110414	718158	6682775	20
20110414	718217	6682774	4
20110414	718142	6682773	20
20110414	718128	6682772	20
20110414	718154	6682769	20
20110414	718209	6682763	5
20110414	718147	6682760	20
20110414	718205	6682757	6
20110414	718142	6682753	5
20110414	718136	6682748	15
20110414	718110	6682733	15
20110414	718084	6682732	5
20110414	718131	6682732	20
20110414	718103	6682728	10
20110414	718176	6682725	1
20110414	718185	6682725	1
20110414	718082	6682723	15
20110414	718116	6682723	20
20110414	718118	6682721	12
20110414	718126	6682720	5
20110414	718156	6682719	15
20110414	718170	6682719	5
20110414	718074	6682718	15
20110414	718115	6682717	20
20110414	718141	6682716	7
20110414	718148	6682716	20
20110414	718135	6682713	4
20110414	718110	6682712	15
20110414	718078	6682709	20
20110414	718105	6682709	20
20110414	718099	6682706	15
20110414	718090	6682705	10
20110414	718069	6682704	20
20110414	718084	6682698	5
20110414	718073	6682697	20
20110414	718108	6682691	10

Additional locations of *Baekkea ochropetala* (Priority 1) recorded during the current survey work from outside the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110414	718087	6682689	5
20110414	718100	6682686	15
20110414	718148	6682686	15
20110414	718159	6682686	8
20110414	718069	6682685	20
20110414	718107	6682684	10
20110414	718093	6682683	15
20110414	718089	6682681	10
20110414	718073	6682680	20
20110414	718152	6682680	10
20110414	718146	6682678	10
20110414	718112	6682676	7
20110414	718161	6682675	4
20110414	718155	6682674	5
20110414	718069	6682673	40
20110414	718168	6682672	5
20110414	718115	6682670	10
20110414	718139	6682669	4
20110414	718070	6682668	20
20110414	718180	6682666	5
20110414	718075	6682665	30
20110414	718168	6682665	6
20110414	718158	6682660	8
20110414	718079	6682658	10
20110414	718134	6682658	5
20110414	718124	6682655	5
20110414	718160	6682655	5
20110414	718081	6682652	25
20110414	718159	6682648	4
20110414	718078	6682646	20
20110414	718154	6682643	10
20110414	718168	6682643	3
20110414	718150	6682639	10
20110414	718154	6682637	9
20110414	718073	6682636	40
20110414	718072	6682628	30
20110414	718077	6682626	30
20110414	718155	6682626	1
20110414	718084	6682624	20
20110414	718119	6682624	20
20110414	718092	6682622	20
20110414	718106	6682617	20
20110414	718149	6682617	5
20110414	718128	6682614	5
20110414	718158	6682613	3
20110414	718161	6682609	4
20110414	718133	6682607	10
20110414	718165	6682604	5
20110414	718138	6682603	10
20110414	718171	6682603	10
20110414	718155	6682596	10
20110414	718158	6682592	10
20110414	718175	6682590	3
20110414	718177	6682583	5
20110414	718184	6682579	8
20110414	718159	6682578	20
20110414	718181	6682570	5
20110414	718166	6682567	5
20110414	718187	6682566	12
20110414	718171	6682559	10
20110414	718192	6682558	10

Additional locations of *Baeckea ochropetala* (Priority 1) recorded during the current survey work from outside the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110414	718182	6682556	8
20110414	718203	6682556	10
20110414	718198	6682554	10
20110414	718212	6682554	2
20110414	718157	6682551	10
20110414	718212	6682544	3
20110414	718167	6682543	15
20110414	718196	6682543	5
20110414	718207	6682541	1
20110414	718158	6682540	7
20110414	718191	6682537	5
20110414	718182	6682531	5
20110414	718161	6682526	10
20110414	718178	6682524	10
20110414	718151	6682521	3
20110414	718174	6682516	8
20110414	718151	6682513	5
20110414	718160	6682511	3
20110414	718200	6682508	4
20110414	718197	6682501	7
20110414	718149	6682498	10
20110414	718186	6682496	4
20110414	718184	6682495	7
20110414	718175	6682494	4
20110414	718153	6682493	10
20110414	718261	6682492	3
20110414	718195	6682491	1
20110414	718157	6682488	4
20110414	718237	6682486	1
20110414	718168	6682485	6
20110414	718145	6682484	15
20110414	718190	6682484	6
20110414	718270	6682484	5
20110414	718220	6682480	4
20110414	718157	6682479	8
20110414	718263	6682479	4
20110414	718194	6682478	4
20110414	718167	6682477	10
20110414	718151	6682475	15
20110414	718210	6682474	4
20110414	718203	6682472	3
20110414	718227	6682472	10
20110414	718254	6682472	7
20110414	718159	6682470	5
20110414	718165	6682467	10
20110414	718213	6682467	5
20110414	718205	6682465	2
20110414	718229	6682465	13
20110414	718191	6682464	5
20110414	718198	6682464	7
20110414	718242	6682464	6
20110414	718156	6682463	4
20110414	718144	6682461	7
20110414	718152	6682461	1
20110414	718185	6682461	10
20110414	718269	6682461	6
20110414	718237	6682460	5
20110414	718163	6682459	20
20110414	718246	6682459	10
20110414	718175	6682458	20
20110414	718239	6682458	5

Additional locations of *Baeckea ochropetala* (Priority 1) recorded during the current survey work from outside the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110414	718280	6682458	3
20110414	718160	6682456	15
20110414	718258	6682456	4
20110414	718147	6682449	1
20110414	718162	6682448	5
20110414	718248	6682448	1
20110414	718282	6682448	7
20110414	718240	6682446	10
20110414	718253	6682443	5
20110414	718174	6682440	10
20110414	718262	6682440	15
20110414	718276	6682439	8
20110414	718271	6682435	10
20110414	718260	6682434	10
20110414	718171	6682432	10
20110414	718262	6682427	5
20110414	718274	6682427	10
20110414	718266	6682423	5
20110414	718286	6682422	2
20110414	718276	6682421	8
20110414	718272	6682416	10
20110414	718284	6682416	8
20110414	718292	6682415	4
20110414	718309	6682409	10
20110414	718300	6682407	15
20110414	718274	6682402	30
20110414	718274	6682400	15
20110414	718307	6682399	20
20110414	718271	6682397	7
20110414	718301	6682397	12
20110414	718264	6682390	10
20110414	718269	6682390	15
20110414	718278	6682390	20
20110414	718297	6682390	15
20110414	718303	6682388	20
20110414	718280	6682383	20
20110414	718302	6682379	15
20110414	718305	6682377	10
20110414	718284	6682376	30
20110414	718311	6682374	10
20110414	718320	6682372	10
20110414	718328	6682372	1
20110414	718284	6682371	40
20110414	718329	6682364	8
20110414	718316	6682361	10
20110414	718284	6682357	25
20110414	718317	6682354	15
20110414	718285	6682353	20
20110414	718322	6682347	20
20110414	718295	6682342	30
20110414	718318	6682340	10
20110414	718339	6682340	7
20110414	718297	6682336	20
20110414	718308	6682336	10
20110414	718335	6682335	10
20110414	718350	6682335	1
20110414	718358	6682335	3
20110414	718304	6682331	15
20110414	718300	6682330	30
20110414	718313	6682330	10
20110414	718328	6682329	20

Additional locations of *Baeckea ochropetala* (Priority 1) recorded during the current survey work from outside the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110414	718345	6682328	4
20110414	718325	6682327	20
20110414	718296	6682324	15
20110414	718296	6682323	10
20110414	718316	6682323	15
20110414	718321	6682321	15
20110414	718352	6682321	5
20110414	718304	6682315	20
20110414	718303	6682313	30
20110414	718309	6682308	32
20110414	718345	6682308	10
20110414	718312	6682303	28
20110414	718329	6682301	10
20110414	718336	6682301	10
20110414	718308	6682300	13
20110414	718395	6682299	1
20110414	718311	6682298	5
20110414	718325	6682298	15
20110414	718311	6682296	18
20110414	718329	6682293	15
20110414	718349	6682293	20
20110414	718389	6682293	1
20110414	718399	6682293	7
20110414	718313	6682292	33
20110414	718356	6682292	10
20110414	718338	6682288	20
20110414	718357	6682288	15
20110414	718404	6682288	8
20110414	718316	6682287	24
20110414	718328	6682287	20
20110414	718345	6682286	20
20110414	718333	6682285	20
20110414	718359	6682283	10
20110414	718319	6682281	34
20110414	718327	6682276	16
20110414	718356	6682274	20
20110414	718353	6682273	8
20110414	718335	6682270	11
20110414	718329	6682269	14
20110414	718364	6682267	6
20110414	718347	6682265	20
20110414	718358	6682263	6
20110414	718346	6682262	23
20110414	718342	6682261	22
20110414	718329	6682256	30
20110414	718422	6682256	5
20110414	718390	6682255	12
20110414	718341	6682251	2
20110414	718379	6682249	1
20110414	718366	6682248	20
20110414	718409	6682247	4
20110414	718340	6682245	5
20110414	718351	6682244	10
20110414	718400	6682243	10
20110414	718361	6682242	10
20110414	718346	6682240	15
20110414	718341	6682234	20
20110414	718379	6682230	9
20110414	718352	6682228	10
20110414	718357	6682227	15
20110414	718344	6682226	10

Additional locations of *Baekkea ochropetala* (Priority 1) recorded during the current survey work from outside the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110414	718374	6682222	7
20110414	718348	6682219	3
20110414	718378	6682217	10
20110414	718353	6682215	5
20110414	718390	6682213	12
20110414	718358	6682211	16
20110414	718351	6682210	7
20110414	718366	6682210	1
20110414	718371	6682202	10
20110414	718387	6682201	5
20110414	718368	6682196	10
20110414	718380	6682195	6
20110414	718375	6682191	8
20110414	718370	6682189	1
20110414	718378	6682184	10
20110414	718365	6682182	2
20110414	718382	6682176	10
20110414	718367	6682175	9
20110414	718378	6682174	19
20110414	718383	6682171	20
20110414	718376	6682167	43
20110414	718386	6682166	30
20110414	718391	6682166	10
20110414	718395	6682161	15
20110414	718379	6682158	28
20110414	718396	6682156	20
20110414	718383	6682154	20
20110414	718398	6682149	15
20110414	718388	6682146	20
20110414	718389	6682137	20
20110414	718403	6682136	2
20110414	718391	6682130	5
20110414	718410	6682130	1
20110414	718400	6682122	3
20110414	718399	6682117	12
20110414	718070	6682035	6
20110414	718088	6682014	5
20110414	718067	6682010	5
20110414	718072	6682003	4
20110414	718087	6682000	5
20110414	718073	6681993	10
20110414	718086	6681993	15
20110414	718093	6681985	20
20110414	718075	6681984	20
20110414	718073	6681978	15
20110414	718079	6681975	15
20110414	718104	6681972	100
20110414	718086	6681969	20
20110414	718114	6681969	40
20110414	718130	6681966	2
20110414	718083	6681961	15
20110414	718103	6681961	20
20110414	718090	6681960	20
20110414	718096	6681956	20
20110414	718108	6681956	20
20110414	718133	6681952	14
20110414	718106	6681950	10
20110414	718116	6681947	15
20110414	718127	6681944	15
20110414	718118	6681940	15
20110414	718136	6681939	8

Additional locations of *Baeckea ochropetala* (Priority 1) recorded during the current survey work from outside the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110414	718156	6681938	5
20110414	718129	6681936	10
20110414	718143	6681936	10
20110414	718156	6681931	12
20110414	718152	6681930	20
20110414	718174	6681928	2
20110414	718146	6681927	20
20110414	718164	6681926	2
20110414	718145	6681913	6
20110414	718151	6681909	10
20110414	718176	6681907	10
20110414	718161	6681906	15
20110414	718182	6681901	8
20110414	718160	6681899	3
20110414	718185	6681896	13
20110414	718173	6681894	11
20110414	718184	6681876	1
20110414	718327	6681650	1
20110414	718368	6681632	4
20110414	718229	6681577	1

Locations of *Baeckea* sp. Parker Range (M. Hislop & F. Hort MH 2968) (Priority 3) in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110407	719775	6696574	18
20110407	719769	6696572	15
20110407	719769	6696566	11
20110407	719762	6696563	15
20110407	719768	6696497	15
20110407	719777	6696497	15
20110407	719764	6696488	30
20110407	719778	6696488	5
20110407	719782	6696480	18
20110407	719774	6696478	15
20110407	719762	6696474	25
20110407	719779	6696468	20
20110407	719757	6696464	15
20110407	719775	6696462	20
20110407	719781	6696461	5
20110407	720976	6696459	1
20110407	720976	6696459	1
20110407	720977	6696458	1
20110407	720977	6696458	1
20110407	720977	6696457	1
20110407	720977	6696457	1
20110407	719762	6696456	32
20110407	720977	6696456	1
20110407	720977	6696455	1
20110407	719753	6696454	20
20110407	720976	6696454	1
20110407	720983	6696454	1
20110407	720984	6696454	1
20110407	720975	6696453	1
20110407	720976	6696453	1
20110407	720985	6696453	1
20110407	720997	6696453	1
20110407	719777	6696452	30
20110407	720975	6696452	1
20110407	720978	6696452	1
20110407	720980	6696452	1

Locations of *Baeckea* sp. Parker Range (M. Hislop & F. Hort MH 2968) (Priority 3) in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110407	720983	6696452	1
20110407	720985	6696452	1
20110407	720988	6696452	1
20110407	720974	6696451	1
20110407	720976	6696451	1
20110407	720987	6696451	1
20110407	720988	6696451	1
20110407	719780	6696450	15
20110407	720981	6696450	1
20110407	720984	6696450	1
20110407	720990	6696450	1
20110407	720976	6696449	1
20110407	720977	6696449	1
20110407	720980	6696449	1
20110407	720981	6696449	1
20110407	720982	6696449	1
20110407	720982	6696449	1
20110407	720983	6696449	1
20110407	720984	6696449	1
20110407	720986	6696449	1
20110407	720980	6696448	1
20110407	720984	6696448	1
20110407	720984	6696448	1
20110407	720984	6696448	1
20110407	719777	6696446	10
20110407	719767	6696445	8
20110407	720982	6696445	7
20110407	720982	6696444	3
20110407	719759	6696443	8
20110407	720980	6696443	3
20110407	720981	6696443	4
20110407	720984	6696442	1
20110407	720982	6696441	1
20110407	720978	6696439	1
20110407	719756	6696437	1
20110407	720983	6696435	1
20101117	720675	6696275	1
20101117	720943	6696211	1
20101117	720953	6696210	1
20101117	720945	6696205	3
20101117	720955	6696201	1
20101117	720937	6696196	3
20101117	720937	6696187	4
20101117	720917	6696186	1
20101117	720962	6696184	1
20101117	720923	6696183	5
20101117	720926	6696182	5
20101117	720963	6696179	3
20101117	720951	6696176	13
20101117	720964	6696170	1
20101201	718433	6696003	2
20101201	718432	6696003	2
20101201	718435	6696001	4
20101201	718425	6695999	1
20101201	718437	6695999	2
20101201	718435	6695998	4
20101201	718435	6695997	2
20101201	718441	6695997	1
20101201	718425	6695995	1
20101201	718429	6695992	5
20101201	718438	6695989	5
20101201	718437	6695988	4

Locations of *Baeckea* sp. Parker Range (M. Hislop & F. Hort MH 2968) (Priority 3) in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101201	718429	6695988	3
20101201	718432	6695985	6
20101201	718450	6695984	1
20101201	718431	6695983	3
20101201	718446	6695983	1
20101201	718431	6695983	5
20101201	718442	6695982	2
20101201	718442	6695980	2
20101201	718432	6695977	7
20101201	718434	6695976	2
20101201	718438	6695973	1
20100926	720698	6695538	3
20100927	720697	6695536	1 (coll #320)
20100926	720685	6695529	1
20100926	720694	6695529	11
20100927	720607	6695527	3
20100927	720627	6695526	1
20100926	720699	6695523	14
20100927	720617	6695523	2
20100926	720705	6695521	7
20100926	720702	6695517	9
20100926	720697	6695512	1
20100801	718323	6695509	1
20100926	720769	6695453	7
20100926	720772	6695453	9
20100927	720778	6695451	2
20100927	720783	6695445	1
20100926	720765	6695444	3
20100926	720775	6695442	1
20100927	720796	6695438	3
20100927	720802	6695434	4
20100927	720791	6695431	2
20100927	720794	6695431	2
20100926	720763	6695429	15
20100926	720773	6695429	8
20100926	720757	6695426	5
20100927	720794	6695425	1
20100927	720799	6695423	3
20100927	720802	6695421	3
20100926	720765	6695418	37
20100926	720774	6695418	15
20100927	720797	6695414	3
20100926	720773	6695412	22
20100926	720763	6695411	38
20100927	720784	6695410	18
20100927	720796	6695407	7
20100926	720764	6695405	9
20100927	720806	6695404	1
20100926	720774	6695403	25
20100927	720806	6695401	1
20100927	720808	6695401	1
20100927	720797	6695399	10
20100926	720763	6695398	12
20100927	720809	6695393	1

Locations of *Philothea coateana* (Priority 3) in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20100801	718050	6689427	scattered
20110405	717897	6689527	1
20110405	717980	6689414	2
20110405	718005	6689413	1
20110405	717998	6689409	1
20110405	718040	6689409	1
20110405	717996	6689408	1
20110405	717987	6689406	3
20110405	717991	6689406	1
20110405	717985	6689404	1
20110405	717981	6689403	1
20110405	717982	6689403	1
20110405	717981	6689402	1
20110405	717985	6689402	1
20110405	717980	6689401	1
20110405	717995	6689401	1
20110405	717996	6689401	1
20110405	718004	6689400	1
20110405	718004	6689400	1
20110405	717981	6689399	1
20110405	717995	6689399	1
20110405	718003	6689399	1
20110405	717985	6689398	1
20110405	718039	6689398	1
20110405	717995	6689397	1
20110405	718039	6689397	1
20110405	717989	6689396	3
20110405	717994	6689396	1
20110405	718000	6689396	1
20110405	718039	6689396	1
20110405	717986	6689395	2
20110405	717991	6689395	1
20110405	718001	6689395	1
20110405	718008	6689395	1
20110405	717988	6689394	1
20110405	717992	6689394	1
20110405	717992	6689394	1
20110405	717993	6689394	1
20110405	717995	6689394	1
20110405	718000	6689394	1
20110405	718000	6689394	1
20110405	717991	6689393	5
20110405	717991	6689393	1
20110405	717993	6689392	1
20110405	718004	6689392	1
20110405	717993	6689391	1
20110405	718002	6689391	1
20110405	717994	6689390	1
20110405	717993	6689388	1
20110405	717996	6689388	1
20110405	717999	6689388	1
20110405	717994	6689387	1
20110405	718000	6689387	1
20110405	718003	6689387	1
20110405	718004	6689383	1
20110405	718010	6689383	1
20110405	717979	6689381	1
20110405	717879	6689380	1
20110405	717880	6689380	1
20110405	717877	6689379	1

Locations of *Philothea coateana* (Priority 3) in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110405	717989	6689379	2
20110405	718012	6689379	1
20110405	717985	6689376	1
20110405	717994	6689373	1
20110405	717995	6689370	11
20110405	717864	6689366	1
20110405	717866	6689366	3
20110405	717867	6689363	2
20110405	717878	6689363	1
20110405	717982	6689363	1
20110405	717986	6689363	2
20110405	717990	6689362	1
20110405	717989	6689361	1
20110405	717972	6689360	1
20110405	717873	6689359	2
20110405	717858	6689358	1
20110405	717870	6689358	3
20110405	717854	6689357	1
20110405	717968	6689352	1
20110405	717974	6689352	1
20110405	717972	6689351	1
20110405	717966	6689350	1
20110405	717967	6689349	1
20110405	717969	6689349	1
20110405	717973	6689349	1
20110405	717969	6689348	1
20110405	717975	6689346	1
20110405	717978	6689346	1
20110405	717980	6689346	1
20110405	717979	6689345	1
20110405	717982	6689345	1
20110405	717968	6689344	1
20110405	717970	6689344	1
20110405	717967	6689343	1
20110405	717984	6689343	1
20110405	717967	6689342	1
20110405	717970	6689341	1
20110405	717974	6689341	1
20110405	717986	6689340	1
20110405	717867	6689337	1
20110405	717971	6689337	1
20110405	717875	6689336	1
20110405	717876	6689336	1
20110405	717869	6689335	1
20110405	717872	6689335	1
20110405	717880	6689334	1
20110405	717871	6689332	1
20110405	717875	6689332	2
20110405	717974	6689332	1
20110405	717861	6689323	1

Locations of *Spartothamnella* sp. Helena & Aurora Range (P.G. Armstrong 155-109) (Priority 3) in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110406	719447	6697353	1
20110412	719919	6697348	1
20110412	719931	6697339	1
20110412	719955	6697335	2
20110412	720055	6697251	1
20110407	719720	6697223	2
20110407	719558	6697214	1
20110407	719559	6697214	1
20110407	719559	6697213	1
20110407	719745	6697209	1
20110407	719721	6697206	1
20110412	719969	6697198	1
20110412	719968	6697194	1
20110412	719975	6697194	1
20110407	719562	6697192	1
20110412	720114	6697192	1
20110412	720114	6697191	1
20110407	719605	6697190	2
20110412	719960	6697188	1
20110412	720038	6697188	1
20110412	719954	6697186	2
20110412	719956	6697186	1
20110412	719957	6697186	2
20110407	719596	6697185	1
20110412	719953	6697184	1
20110412	719959	6697184	1
20110412	719951	6697183	1
20110412	719954	6697182	1
20110412	719978	6697177	1
20110412	720029	6697174	1
20110412	720006	6697169	1
20110412	719980	6697158	1
20110407	719573	6697157	1
20110407	719875	6697155	1
20110412	719964	6697155	1
20110412	719929	6697140	2
20110407	719873	6697135	1
20110412	719972	6697099	1
20110412	719934	6697096	1
20110407	719864	6697094	1
20110412	719906	6697091	1
20110412	719907	6697091	1
20110412	719908	6697090	1
20110412	719906	6697089	1
20110412	719909	6697089	1
20110412	719907	6697088	1
20110412	719982	6697088	1
20110412	719983	6697087	1
20110412	719987	6697072	1
20110412	719989	6697072	1
20110406	719440	6697066	1
20110412	719891	6697064	1
20110412	720155	6697063	1
20110412	719892	6697061	1
20110412	719939	6697058	2
20110407	719857	6697047	1
20110412	720136	6697045	1
20110407	719866	6697042	1
20110412	720139	6697037	1

Locations of *Spartothamnella* sp. Helena & Aurora Range (P.G. Armstrong 155-109) (Priority 3) in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110407	719587	6697031	4
20110406	719406	6697030	1
20110406	719512	6697030	1
20110406	719129	6697029	1
20110406	719130	6697027	1
20110406	719125	6697024	1
20110406	719380	6697022	2
20110412	719890	6697019	1
20110412	719995	6697013	1
20110407	719891	6697012	3
20110412	719985	6697012	1
20110412	719986	6697012	1
20110407	719881	6697009	1
20110407	719871	6697007	1
20110407	719856	6696998	1
20110407	719817	6696993	1
20110412	720059	6696991	1
20110412	720102	6696990	1
20110406	719393	6696979	2
20110406	719489	6696978	2
20110406	719390	6696977	2
20110412	720064	6696977	2
20110406	719463	6696969	1
20110406	719410	6696968	1
20110407	719823	6696966	4
20110412	719900	6696966	1
20110407	719688	6696960	1
20110407	719794	6696960	1
20110407	719531	6696954	1
20110407	719641	6696953	1
20110406	719400	6696948	1
20110407	719616	6696948	1
20110407	719642	6696948	1
20110407	719739	6696947	2
20110412	719909	6696947	1
20110407	719618	6696946	1
20110407	719849	6696943	1
20110412	720080	6696938	1
20110406	719483	6696936	2
20110412	719910	6696933	1
20110412	719951	6696932	1
20110412	719952	6696932	1
20110407	719693	6696931	1
20110407	719537	6696929	1
20110407	719627	6696929	1
20110406	719442	6696927	1
20110407	719685	6696925	1
20110406	719437	6696924	2
20110406	719440	6696924	1
20110406	719444	6696924	1
20110406	719393	6696915	1
20110412	719907	6696915	1
20110412	719901	6696913	1
20110412	719901	6696913	1
20110412	719899	6696911	1
20110412	719979	6696910	1
20110412	719980	6696909	1
20110412	720039	6696907	2
20110412	719963	6696904	1
20110412	720128	6696904	1
20110412	720128	6696904	1

Locations of *Spartothamnella* sp. Helena & Aurora Range (P.G. Armstrong 155-109) (Priority 3) in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110407	719551	6696901	1
20110406	719401	6696897	4
20110406	719404	6696893	1
20110412	719989	6696888	1
20110406	719434	6696876	1
20110412	720044	6696868	1
20110406	719391	6696866	2
20110406	719372	6696854	1
20110406	719417	6696851	1
20110406	719416	6696850	1
20110406	719365	6696848	4
20110406	719361	6696847	1
20110406	719364	6696847	1
20110406	719412	6696846	2
20110406	719361	6696845	1
20110406	719401	6696824	1
20110406	719285	6696779	1
20110406	719270	6696778	3
20110406	719299	6696777	1
20110406	719297	6696776	1
20110406	719276	6696761	1
20110406	719480	6696744	1
20110406	719228	6696738	1
20110406	719231	6696738	1
20110406	719232	6696738	1
20110406	719425	6696716	1
20110405	718853	6696700	1
20110406	719234	6696693	1
20110405	718915	6696648	4
20110407	719664	6696520	1
20101201	719797	6696267	1
20101201	719756	6696234	2
20101201	719738	6696201	1
20101201	719508	6695980	2
20100801	718698	6695302	1
20100927	718522	6694986	1
20100929	717794	6679718	1
20101025	717271	6675998	1

Locations of *Dryandra arborea* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20100801	719353	6694809	1
20100801	719364	6694809	1
20100801	719363	6694799	1
20100801	719353	6694798	2
20100801	719363	6694784	1
20100801	719373	6694783	1
20100801	719384	6694782	1

Locations of *Eucalyptus formanii* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110407	720956	6696383	1
20110407	721030	6696377	2
20110407	720959	6696372	1
20110407	720955	6696366	4
20110407	721024	6696362	1
20110407	721029	6696362	2
20110407	720982	6696353	1
20110407	721026	6696351	2
20110407	721048	6696351	1
20110407	720976	6696346	1
20101201	719118	6696305	1
20101117	720982	6696284	1
20101117	720983	6696279	1
20101117	721039	6696243	1
20101117	721032	6696238	1
20101117	721021	6696209	1
20101117	721003	6696204	1
20101117	721007	6696199	1
20101117	721033	6696196	2
20101117	721000	6696192	1
20101117	721000	6696190	1
20101117	721031	6696181	1
20101117	721021	6696180	1
20101117	720894	6696179	1
20101117	721018	6696179	1
20101117	721026	6696175	1
20101117	720894	6696173	1
20101117	721015	6696173	1
20101117	721020	6696166	1
20101117	720995	6696162	1
20101117	721026	6696162	1
20101117	721027	6696162	2
20101117	721028	6696162	1
20101117	720993	6696161	1
20101117	721002	6696161	1
20101117	720996	6696160	1
20101117	721029	6696160	1
20101117	721035	6696159	1
20101117	720987	6696158	1
20101117	721022	6696158	1
20101117	720996	6696156	1
20101117	720992	6696150	1
20101117	720989	6696148	1
20101117	721021	6696143	1
20101117	720999	6696139	1
20101117	720917	6696135	1
20101117	720924	6696133	1
20101117	720914	6696130	1
20101117	720915	6696130	1
20101117	720914	6696129	2
20101117	720892	6696124	1
20101117	720907	6696101	1
20101117	720905	6696100	1
20101117	720921	6696091	1
20101117	720910	6696089	1
20101117	720921	6696089	1
20101117	720927	6696082	1
20101117	720943	6696076	1
20101117	720898	6696060	1
20101117	720890	6696040	1

Locations of *Eucalyptus formanii* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	721002	6695997	1
20101117	721016	6695989	1
20101117	721007	6695983	1
20101117	720762	6695979	1
20101117	720746	6695974	1
20101117	720756	6695974	1
20101117	720753	6695968	1
20101117	720725	6695966	2
20101117	720701	6695963	1
20101117	720722	6695963	1
20101117	720693	6695961	1
20101117	720722	6695961	1
20101117	720693	6695954	1
20101117	720724	6695954	1
20101117	720750	6695953	1
20101117	721003	6695951	1
20101117	720968	6695950	1
20101117	720700	6695945	1
20101117	720963	6695941	1
20101117	720996	6695941	1
20101117	720998	6695941	1
20101117	720687	6695940	1
20101117	720689	6695940	1
20101117	720742	6695940	1
20101117	720992	6695939	1
20101117	720737	6695937	1
20101117	720711	6695935	1
20101117	720738	6695935	1
20101117	720961	6695934	1
20101117	720974	6695934	1
20101117	720708	6695931	1
20101117	720824	6695931	1
20101117	720701	6695928	1
20101117	721014	6695927	1
20101117	721020	6695927	1
20101117	720720	6695926	1
20101117	720721	6695924	1
20101117	720974	6695924	1
20101117	720975	6695922	1
20101117	720735	6695920	1
20101117	720879	6695915	1
20101117	720723	6695910	1
20101117	720869	6695909	2
20101117	720722	6695905	1
20101117	720859	6695902	1
20101117	720720	6695901	1
20101117	720722	6695900	1
20101117	720719	6695892	1
20101117	720724	6695891	1
20101117	720846	6695890	1
20101117	720850	6695880	1
20101117	720840	6695879	1
20101117	720733	6695877	1
20101117	720845	6695865	1
20101117	720865	6695863	1
20101117	720884	6695862	1
20101117	720855	6695859	1
20101117	720845	6695851	1
20100927	720867	6695645	1
20100927	720877	6695644	1
20100927	720867	6695643	1

Locations of *Eucalyptus formanii* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20100927	720874	6695640	1
20100927	720864	6695629	1
20100801	719089	6693354	1
20100801	719085	6693343	1
20110405	718448	6693063	1
20110405	718442	6693057	1
20100801	718860	6692991	1
20110405	718387	6692981	1
20110405	718380	6692977	1
20110405	718444	6692976	1
20110405	718425	6692883	1
20110405	718455	6692838	1
20110405	718364	6692822	2
20110405	718379	6692818	1
20110405	718364	6692801	5
20110405	718388	6692800	1
20110405	718350	6692797	1
20110405	718447	6692795	1
20110405	718353	6692785	1
20110405	718369	6692783	4
20110405	718368	6692774	1
20110405	718445	6692774	1
20110405	718455	6692774	1
20110405	718358	6692772	1
20110405	718385	6692772	1
20110405	718380	6692767	1
20110405	718443	6692767	1
20110405	718446	6692765	1
20110405	718355	6692757	2
20110405	718399	6692741	1
20110405	718404	6692739	1
20110405	718440	6692739	1
20110405	718389	6692738	1
20110405	718394	6692735	1
20110405	718435	6692732	1
20110405	718371	6692729	1
20110405	718398	6692729	4
20110405	718440	6692729	1
20110405	718401	6692725	1
20110405	718390	6692724	1
20110405	718391	6692724	1
20110405	718360	6692722	3
20110405	718388	6692720	3
20110405	718433	6692713	1
20110405	718435	6692713	1
20110405	718428	6692709	1
20110405	718350	6692707	2
20110405	718428	6692704	1
20110405	718360	6692701	1
20110405	718414	6692700	1
20110405	718399	6692697	1
20110405	718398	6692693	1
20110405	718443	6692690	1
20110405	718416	6692689	1
20110405	718428	6692689	1
20110405	718355	6692688	3
20110405	718377	6692688	5
20110405	718437	6692688	1
20110405	718444	6692688	1
20110405	718404	6692680	1
20110405	718344	6692670	2

Locations of *Eucalyptus formanii* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110405	718353	6692669	3
20110405	718376	6692660	4
20110405	718367	6692658	2
20110405	718355	6692657	5
20110405	718403	6692651	1
20110405	718352	6692641	4
20100801	718636	6692636	2
20100801	718683	6692631	1
20110405	718385	6692628	1
20110405	718392	6692628	1
20100801	718624	6692626	1
20100801	718636	6692626	1
20110405	718347	6692624	1
20110405	718372	6692623	1
20110405	718380	6692623	1
20110405	718410	6692623	1
20100801	718674	6692620	1
20110405	718370	6692613	1
20110405	718387	6692613	1
20110405	718380	6692612	1
20100801	718658	6692606	1
20110405	718415	6692605	1
20100801	718636	6692604	1
20100801	718648	6692602	1
20100801	718638	6692593	1
20100801	718658	6692593	2
20100801	718679	6692589	2
20100801	718689	6692589	3
20110405	718362	6692588	1
20110405	718381	6692588	1
20100801	718669	6692583	2
20100801	718700	6692581	2
20100801	718638	6692572	2
20100801	718697	6692572	3
20100801	718685	6692568	3
20110405	718351	6692563	1
20110405	718342	6692561	1
20100801	718644	6692561	1
20100801	718687	6692556	2
20110405	718343	6692551	1
20100801	718644	6692550	3
20100801	718653	6692545	2
20100801	718691	6692545	2
20100801	718654	6692540	2
20100801	718685	6692535	2
20100801	718643	6692534	1
20100801	718665	6692531	1
20100801	718642	6692527	2
20100801	718653	6692524	1
20100801	718631	6692523	1
20100801	718664	6692523	3
20100801	718675	6692523	1
20100801	718671	6692513	2
20100801	718631	6692512	1
20100801	718659	6692510	2
20100801	718639	6692505	1
20110405	718359	6692504	1
20100801	718649	6692503	1
20110405	718389	6692487	1
20100801	718549	6692457	2
20100801	718589	6692456	3

Locations of *Eucalyptus formanii* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110405	718351	6692451	1
20100801	718548	6692447	4
20100801	718537	6692440	2
20100801	718539	6692429	1
20100801	718551	6692426	1
20100801	718586	6692420	1
20100801	718547	6692415	1
20100801	718576	6692410	2
20100801	718557	6692403	1
20100801	718565	6692402	1
20100801	718547	6692401	1
20100801	718563	6692392	1
20110405	718382	6692355	1
20100801	718481	6692343	2
20110405	718403	6692309	1
20110405	718340	6692290	1
20100801	718538	6692241	1
20100801	718505	6692178	1
20110405	718346	6692127	1
20100801	718381	6692037	1
20100801	718368	6692016	1
20100801	718372	6691962	1
20100801	718361	6691955	1
20100801	718318	6691946	1
20100801	718342	6691936	1
20100801	718382	6691931	2
20100801	718360	6691924	1
20110405	718246	6691904	1
20100801	718336	6691904	3
20100801	718358	6691902	1
20100801	718348	6691901	1
20100801	718248	6691899	1
20100801	718345	6691898	1
20100801	718323	6691892	1
20100801	718335	6691892	2
20100801	718323	6691881	1
20100801	718348	6691880	1
20100801	718328	6691852	1
20100801	718288	6691850	2
20100801	718338	6691850	2
20100801	718309	6691848	1
20100801	718298	6691841	2
20100801	718310	6691838	1
20100801	718275	6691818	1
20100801	718319	6691817	2
20100801	718221	6691815	1
20100801	718287	6691813	2
20100801	718199	6691812	1
20100801	718316	6691807	1
20100801	718264	6691792	1
20100801	718286	6691791	2
20100801	718186	6691790	1
20100801	718272	6691781	1
20100801	718253	6691780	1
20100801	718193	6691779	1
20100801	718224	6691779	2
20100801	718203	6691778	1
20100801	718214	6691777	3
20100801	718234	6691775	3
20100801	718283	6691775	1
20100801	718190	6691770	3

Locations of *Eucalyptus formanii* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20100801	718257	6691769	1
20100801	718224	6691766	2
20100801	718290	6691764	2
20100801	718212	6691763	1
20100801	718190	6691759	2
20100801	718265	6691759	1
20100801	718253	6691757	2
20100801	718187	6691749	2
20100801	718198	6691748	1
20100801	718254	6691746	1
20100801	718215	6691738	1
20110405	718315	6691737	1
20100801	718236	6691735	2
20100801	718192	6691731	1
20100801	718226	6691731	1
20110405	718302	6691726	1
20100801	718170	6691725	3
20100801	718199	6691724	1
20110405	718315	6691720	1
20100801	718270	6691716	1
20100801	718202	6691714	1
20110405	718271	6691714	1
20110405	718298	6691711	1
20110405	718284	6691708	1
20100801	718263	6691706	2
20110405	718304	6691705	1
20110405	718306	6691705	1
20110405	718263	6691703	1
20100801	718253	6691699	1
20110405	718287	6691698	1
20110405	718261	6691697	1
20110405	718292	6691696	1
20110405	718278	6691693	1
20100801	718206	6691692	1
20110405	718300	6691691	1
20110405	718300	6691688	1
20100801	718176	6691686	1
20110405	718268	6691686	1
20100801	718235	6691682	2
20100801	718214	6691681	2
20100801	718253	6691680	2
20110405	718259	6691680	1
20110405	718298	6691677	1
20100801	718228	6691671	2
20100801	718219	6691670	1
20100801	718247	6691670	1
20100801	718209	6691668	1
20110405	718257	6691668	1
20110405	718291	6691667	1
20110405	718249	6691662	1
20100801	718219	6691661	1
20110405	718299	6691660	1
20110405	718299	6691660	1
20110405	718306	6691660	1
20100801	718176	6691659	1
20110405	718241	6691659	2
20110405	718267	6691659	1
20100801	718204	6691658	2
20100801	718231	6691658	1
20100801	718244	6691658	3
20110405	718246	6691654	1

Locations of *Eucalyptus formanii* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110405	718277	6691654	1
20110405	718292	6691654	1
20100801	718191	6691652	2
20110405	718268	6691652	1
20110405	718279	6691652	1
20110405	718263	6691648	1
20100801	718180	6691647	1
20100801	718224	6691647	2
20110405	718266	6691646	1
20110405	718253	6691644	1
20100801	718129	6691643	1
20110405	718254	6691643	1
20110405	718288	6691643	1
20110405	718287	6691641	1
20110405	718231	6691639	1
20110405	718285	6691637	1
20100801	718178	6691636	1
20100801	718210	6691636	1
20110405	718281	6691636	1
20110405	718283	6691634	1
20110405	718287	6691633	1
20100801	718200	6691629	3
20100801	718221	6691625	1
20100801	718209	6691624	1
20110405	718275	6691623	1
20110405	718288	6691622	1
20100801	718169	6691620	4
20110405	718225	6691620	1
20110405	718271	6691620	1
20100801	718190	6691619	3
20100801	718206	6691618	1
20110405	718226	6691615	1
20100801	718215	6691614	2
20110405	718239	6691612	1
20100801	718195	6691611	2
20100801	718122	6691610	1
20100801	718164	6691609	2
20100801	718193	6691609	4
20100801	718206	6691608	2
20110405	718217	6691608	1
20110405	718283	6691608	1
20100801	718131	6691604	1
20100801	718183	6691604	2
20110405	718225	6691603	1
20110405	718266	6691601	1
20100801	718212	6691598	5
20100801	718202	6691597	1
20110405	718205	6691595	2
20100801	718134	6691593	1
20110405	718282	6691593	1
20110405	718230	6691592	1
20110405	718215	6691588	2
20110405	718245	6691588	1
20110405	718208	6691585	1
20110405	718253	6691583	1
20100801	718127	6691582	1
20100801	718180	6691582	1
20110405	718216	6691582	1
20110405	718208	6691575	1
20110405	718225	6691574	1
20100801	718168	6691572	1

Locations of *Eucalyptus formanii* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110405	718264	6691571	1
20110405	718223	6691570	1
20100801	718179	6691568	2
20110405	718204	6691568	2
20110405	718195	6691566	1
20110405	718225	6691565	1
20110405	718218	6691563	1
20110405	718204	6691560	1
20110405	718239	6691560	1
20100801	718071	6691559	1
20100801	718158	6691557	2
20100801	718180	6691557	1
20100801	718146	6691556	1
20110405	718183	6691554	3
20110405	718242	6691553	1
20110405	718200	6691552	1
20110405	718207	6691551	1
20100801	718170	6691550	1
20110405	718222	6691550	1
20100801	718180	6691548	1
20100801	718149	6691546	4
20110405	718224	6691546	1
20110405	718194	6691542	1
20110405	718229	6691542	1
20110405	718235	6691540	1
20100801	718151	6691527	1
20100801	718089	6691526	1
20110405	718208	6691524	3
20110405	718236	6691522	1
20100801	718150	6691516	1
20100801	718060	6691504	1
20100801	718101	6691502	1
20110405	718190	6691493	1
20110405	718204	6691493	2
20110405	718232	6691477	1
20110405	718185	6691471	1
20110405	718228	6691463	1
20110405	718225	6691453	1
20110405	718220	6691450	1
20110405	718218	6691442	1
20110405	718176	6691441	1
20110405	718203	6691436	1
20110405	718220	6691411	1
20110405	718222	6691405	1
20110405	718245	6691404	1
20100801	718098	6691366	1
20110405	718195	6691338	1
20110405	718188	6691335	1
20110405	718154	6691334	2
20110405	718221	6691326	1
20110405	718223	6691326	1
20110405	718212	6691324	1
20110405	718207	6691321	1
20100801	718063	6691319	1
20110405	718186	6691318	4
20110405	718161	6691313	1
20110405	718174	6691311	1
20110405	718184	6691309	1
20110405	718192	6691298	1
20110405	718184	6691164	1
20110405	718184	6691158	1

Locations of *Eucalyptus formanii* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110405	718190	6691154	1
20100801	717991	6691138	1
20100801	717981	6691129	3
20100801	717973	6691120	2
20100801	717997	6691114	3
20100801	717985	6691113	2
20100801	717975	6691110	2
20100801	717988	6691103	3
20100801	717977	6691093	2
20110405	718139	6690981	3
20110405	718144	6690979	2
20110405	718142	6690978	1
20110405	718165	6690977	1
20110405	718132	6690975	1
20110405	718144	6690975	3
20110405	718143	6690968	3
20110405	718138	6690960	2
20110405	718130	6690924	1
20110405	718177	6690922	1
20110405	718129	6690917	1
20110405	718176	6690905	1
20110405	718173	6690900	1
20110405	718165	6690893	1
20110405	718153	6690887	1
20110405	718172	6690881	1
20100801	717978	6690622	1
20100801	717975	6690617	1
20100801	717977	6690612	4
20110405	717942	6690267	1
20110405	717946	6690267	1
20110405	717938	6690252	1
20100801	717970	6690251	1
20110405	717963	6690250	1
20110405	717937	6690247	1
20100801	717964	6690230	4
20110405	717966	6690226	2
20110405	717964	6690214	4
20110405	717879	6689536	1
20110405	717903	6689536	1
20110405	717899	6689531	1
20110405	717840	6689522	1
20110405	717872	6689517	1
20100801	718069	6689380	1
20100801	718017	6689344	1
20110405	717868	6689206	1
20100801	718025	6689202	1
20110405	717869	6689201	1
20100801	717990	6689198	1
20101201	717943	6689195	1
20100801	718022	6689191	1
20101201	717959	6689190	1
20100801	718006	6689189	1
20100801	718027	6689180	3
20100801	718012	6689178	1
20101201	717969	6689176	1
20110405	717860	6689172	1
20101201	717914	6689168	1
20100801	718012	6689167	1
20110405	717862	6689166	1
20101201	717916	6689157	1
20100801	718033	6689157	1

Locations of *Eucalyptus formanii* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110405	717828	6689156	1
20101201	717922	6689156	1
20101201	717939	6689156	1
20100801	718054	6689152	1
20101201	717926	6689147	1
20101201	717927	6689146	1
20101201	717901	6689143	1
20101201	717906	6689141	1
20100801	718061	6689141	1
20101201	717911	6689140	1
20101201	717913	6689140	1
20101201	717918	6689137	1
20101201	717940	6689137	1
20110405	717850	6689126	1
20110405	717848	6689124	1
20110405	717839	6689114	1
20110405	717784	6689100	1
20101201	717913	6689098	1
20101201	717913	6689093	1
20110405	717725	6689088	1
20101201	717934	6689077	1
20101201	717930	6689075	1
20110405	717749	6689071	2
20101201	717914	6689071	1
20101201	717932	6689071	1
20101201	717923	6689062	1
20110405	717770	6689058	1
20110405	717769	6689057	1
20101201	717931	6689057	1
20101201	717935	6689055	1
20110405	717805	6689051	1
20110405	717794	6689050	1
20101201	717889	6689047	1
20110405	717806	6689046	1
20110405	717825	6689046	1
20101201	717866	6689043	1
20101201	717908	6689042	1
20101201	717910	6689041	1
20101201	717928	6689038	1
20101201	717880	6689037	1
20110405	717830	6689036	1
20101201	717933	6689036	1
20110405	717833	6689033	1
20101201	717918	6689033	1
20101201	717936	6689029	1
20101201	717912	6689028	1
20101201	717911	6689026	1
20101201	717905	6689025	1
20101201	717907	6689025	1
20101201	717920	6689025	1
20110405	717788	6689024	1
20101201	717857	6689024	1
20101201	717915	6689024	1
20110405	717828	6689023	1
20101201	717908	6689021	1
20101201	717912	6689021	1
20101201	717903	6689020	1
20101201	717906	6689020	1
20101201	717850	6689018	1
20101201	717893	6689018	1
20101201	717902	6689017	1

Locations of *Eucalyptus formanii* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110405	717791	6689016	1
20110405	717830	6689016	1
20101201	717949	6689016	1
20101201	717892	6689015	1
20101201	717854	6689011	1
20101201	717924	6689010	1
20110405	717824	6689009	1
20101201	717862	6689008	1
20101201	717895	6689005	1
20101201	717860	6688998	1
20101201	717838	6688996	1
20101201	717898	6688996	1
20101201	717901	6688995	1
20101201	717857	6688994	1
20101201	717864	6688994	1
20110405	717794	6688993	1
20101201	717890	6688993	1
20101201	717931	6688993	1
20101201	717931	6688993	1
20101201	717887	6688990	1
20110405	717802	6688989	1
20101201	717903	6688989	1
20101201	717910	6688987	1
20101201	717871	6688986	1
20101201	717915	6688986	1
20101201	717862	6688981	1
20101201	717862	6688978	1
20101201	717848	6688971	1
20101201	717924	6688967	1
20101201	717932	6688965	1
20101201	717896	6688964	1
20100801	718000	6688962	1
20101201	717895	6688961	1
20101201	717864	6688960	1
20101201	717880	6688946	1
20101201	717892	6688941	1
20101201	717881	6688939	1
20101201	717875	6688936	1
20101201	717893	6688935	1
20101201	717870	6688933	1
20101201	717899	6688932	1
20101201	717867	6688920	1
20101201	717883	6688919	1
20101201	717893	6688918	2
20101201	717898	6688916	1
20100801	717998	6688916	1
20101201	717900	6688915	1
20101201	717899	6688913	1
20101201	717866	6688907	1
20101201	717877	6688907	1
20101201	717901	6688907	1
20101201	717904	6688907	1
20101201	717882	6688903	1
20101201	717827	6688902	1
20101201	717826	6688901	1
20101201	717886	6688898	1
20101201	717827	6688896	1
20101201	717851	6688895	1
20100801	717997	6688895	1
20101201	717828	6688894	1
20101201	717860	6688894	1

Locations of *Eucalyptus formanii* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101201	717852	6688893	1
20101201	717861	6688893	1
20101201	717894	6688893	1
20101201	717860	6688891	3
20101201	717892	6688891	1
20101201	717825	6688890	1
20101201	717890	6688889	1
20101201	717893	6688886	1
20101201	717908	6688884	1
20101201	717872	6688883	1
20101201	717882	6688880	1
20101201	717841	6688879	1
20101201	717873	6688879	1
20101201	717815	6688871	1
20101201	717863	6688870	1
20101201	717883	6688868	1
20101201	717843	6688864	1
20101201	717812	6688860	1
20101201	717828	6688851	1
20101201	717816	6688850	1
20101201	717801	6688841	1
20101201	717797	6688838	1
20101201	717799	6688836	1
20101201	717837	6688835	1
20101201	717785	6688826	1
20101201	717845	6688825	1
20101201	717800	6688822	1
20101201	717778	6688816	1
20101201	717809	6688816	1
20101201	717843	6688816	1
20101201	717802	6688813	1
20101201	717789	6688802	1
20101201	717768	6688801	1
20101201	717798	6688798	1
20101201	717852	6688798	1
20101201	717781	6688797	1
20101201	717789	6688794	1
20101201	717792	6688794	1
20101201	717774	6688793	1
20110405	717696	6688783	1
20101201	717790	6688782	1
20101201	717824	6688778	1
20101201	717853	6688777	1
20110405	717680	6688768	3
20101201	717847	6688768	1
20101201	717798	6688767	1
20101201	717831	6688766	1
20101201	717792	6688765	1
20101201	717860	6688764	1
20110405	717685	6688763	1
20101201	717769	6688763	1
20101201	717859	6688763	1
20101201	717859	6688763	1
20101201	717859	6688763	1
20101201	717768	6688762	1
20101201	717783	6688761	1
20101201	717771	6688759	1
20101201	717795	6688755	1
20101201	717787	6688754	1
20101201	717798	6688753	1
20101201	717811	6688751	1

Locations of *Eucalyptus formanii* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101201	717749	6688747	1
20101201	717798	6688746	1
20101201	717794	6688744	1
20101201	717809	6688734	1
20101201	717807	6688733	1
20110405	717691	6688730	1
20101201	717804	6688725	1
20110405	717650	6688701	3
20110405	717649	6688692	1
20101201	717663	6688601	1
20101201	717665	6688600	1
20101201	717651	6688589	1
20101201	717653	6688572	1
20101201	717687	6688569	1
20101201	717644	6688561	1
20101201	717647	6688556	1
20101201	717661	6688382	1
20101201	717662	6688370	1
20101201	717661	6688369	1
20101201	717661	6688354	1
20101201	717729	6688232	1
20101201	717730	6688212	1
20101201	717705	6688208	1
20101201	717745	6688208	1
20101201	717750	6688208	1
20101201	717737	6688198	1
20101201	717697	6688184	1
20101201	717689	6688182	1
20101201	717692	6688182	1
20101201	717684	6688178	1
20101201	717707	6688177	1
20101201	717690	6688172	1
20101201	717690	6688169	1
20101201	717692	6688163	1
20101201	717692	6688163	1
20101201	717693	6688162	1
20101201	717694	6688151	1
20101201	717696	6688141	1
20101201	717729	6688141	1
20101201	717693	6688136	1
20101201	717736	6687983	1
20100801	718003	6685721	2
20100801	717984	6685717	1
20101117	718069	6682942	1
20101117	717969	6682567	1
20101117	717979	6682527	1
20101117	718000	6682525	1
20101117	717976	6682519	1
20101117	718006	6682517	1
20101117	718003	6682514	1
20101117	718007	6682508	1
20101117	717985	6682507	2
20101117	718008	6682502	1
20101117	717990	6682498	1
20101117	717978	6682497	1
20101117	717972	6682494	1
20101117	717989	6682494	1
20101117	718006	6682494	1
20101117	718006	6682490	1
20101117	718005	6682489	1
20101117	718003	6682486	1

Locations of *Eucalyptus formanii* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	718010	6682483	2
20101117	717977	6682482	1
20101117	717987	6682482	1
20101117	717979	6682481	1
20101117	718011	6682477	2
20101117	718022	6682472	3
20101117	717974	6682470	1
20101117	718020	6682467	2
20101117	718038	6682465	4
20101117	717986	6682458	1
20101117	718023	6682457	1
20101117	718000	6682450	1
20101117	717971	6682447	1
20101117	717984	6682447	1
20101117	718020	6682446	3
20101117	718037	6682439	1
20101117	718044	6682437	1
20101117	718024	6682435	4
20101117	718005	6682434	1
20101117	718011	6682434	1
20101117	718013	6682430	2
20101117	717997	6682429	1
20101117	718040	6682426	1
20101117	717990	6682421	1
20101117	718013	6682419	2
20101117	718030	6682419	1
20101117	718007	6682409	1
20101117	718063	6682406	1
20101117	717996	6682402	1
20101117	718046	6682401	1
20101117	717996	6682400	1
20101117	717999	6682400	1
20101117	717996	6682396	1
20101117	718003	6682394	1
20101117	718007	6682394	1
20101117	718005	6682393	1
20101117	718059	6682392	1
20101117	718034	6682390	3
20101117	718068	6682376	1
20101117	718006	6682374	1
20101117	718067	6682371	1
20101117	718070	6682349	1
20101117	718043	6682341	1
20101117	718045	6682341	1
20101117	717969	6682302	1
20101117	717969	6682301	1
20101117	717974	6682300	1
20101117	718006	6682284	1
20101117	718029	6682277	1
20101117	718002	6682276	1
20101117	718000	6682267	1
20101117	718022	6682265	3
20101117	717976	6682264	1
20101117	718001	6682256	1
20101117	718003	6682255	1
20101117	717998	6682234	1
20101117	717994	6682230	1
20101117	717981	6682227	1
20101117	717984	6682215	1
20101117	717970	6682198	1
20101117	717998	6682193	1

Locations of *Eucalyptus formanii* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	718000	6682187	1
20101117	718009	6682181	1
20101117	718004	6682180	1
20101117	718006	6682179	1
20101117	717985	6682178	1
20101117	717988	6682175	1
20101117	717985	6682171	1
20101117	718011	6682162	1
20101117	718012	6682149	1
20101117	718009	6682148	1
20101117	718013	6682148	1
20101117	717970	6681961	1
20101117	717992	6681954	1
20101117	717980	6681951	1
20101117	717982	6681949	1
20101117	717993	6681939	1
20101117	717988	6681937	1
20101117	718022	6681923	1
20101117	718016	6681921	1
20101117	718002	6681899	1
20101117	718036	6681899	1
20101117	718001	6681891	1
20101117	718009	6681887	1
20101117	718016	6681877	1
20101117	718029	6681850	1
20101117	718016	6681844	1
20101117	718025	6681834	1
20101117	718010	6681818	1
20101117	718016	6681795	1
20101117	718047	6681788	1
20101117	718011	6681769	4
20101117	718000	6681768	2
20101117	718065	6681767	1
20101117	717996	6681760	1
20101117	718019	6681759	2
20101117	718046	6681757	1
20101117	718040	6681752	2
20101117	718000	6681751	1
20101117	718008	6681744	1
20101117	718011	6681739	1
20101117	718066	6681738	1
20101117	718015	6681736	2
20101117	718009	6681734	1
20101117	717986	6681727	1
20101117	717980	6681726	1
20101117	717991	6681724	1
20101117	717987	6681723	1
20101117	717994	6681722	1
20101117	718000	6681719	1
20101117	718017	6681715	2
20101117	717994	6681714	1
20101117	718005	6681706	1
20101117	718068	6681691	1
20101117	718073	6681689	1
20101117	718022	6681670	2
20101117	718029	6681656	2
20101117	718041	6681655	1
20101117	718004	6681651	1
20101117	718064	6681649	1
20101117	718025	6681633	1
20101117	718041	6681632	1

Locations of *Eucalyptus formanii* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	718044	6681617	1
20101117	718043	6681600	2
20101117	718063	6681595	1
20101117	718074	6681588	1
20101117	718054	6681578	1
20101117	718060	6681530	1
20101117	718066	6681528	1
20101117	718047	6681522	1
20101117	718045	6681517	1
20101117	718070	6681450	1
20101117	718046	6681448	1
20101117	718015	6681442	1
20101117	718027	6681168	1
20101117	718039	6681149	1
20101117	718042	6681143	1
20101117	718073	6680948	1

Locations of *Eucalyptus formanii* (Priority 4) recorded during previous survey work by Western Botanical in the Deception Deposit study area (Western Botanical 2009).

Easting (mE)	Northing (mN)	Number of Individuals
719656	6695154	1
719090	6693330	2

NB. Locations from Western Botanical (2010) within the mine area were re-recorded during the current survey work and have not been presented herein.

Locations of *Grevillea erectiloba* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20110405	717910	6689518	1
20110405	717894	6689505	1
20110405	717904	6689505	1
20110405	717896	6689503	1
20110405	717902	6689503	1
20110405	717916	6689502	1
20110405	717892	6689499	1
20110405	717901	6689499	3
20110405	717914	6689497	1
20110405	717892	6689494	1
20110405	717896	6689492	1
20110405	717891	6689491	1
20110405	717908	6689479	1
20110405	717909	6689477	1
20110405	717915	6689476	1
20110405	717898	6689417	1
20110405	717904	6689410	1
20110405	717897	6689403	1
20110405	717895	6689399	2
20100801	718061	6689467	1
20100801	718067	6689456	1
20100801	718030	6689447	1
20100801	718063	6689446	3
20100801	718069	6689446	2
20100801	718051	6689441	1
20100801	718072	6689439	3
20100801	718041	6689438	1
20100801	718063	6689435	1
20100801	718051	6689426	2
20100801	718072	6689424	1
20100801	718019	6689414	1

Locations of *Grevillea erectiloba* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20100801	718025	6689391	1
20100801	717997	6689380	1
20100801	718067	6683788	2
20100801	718056	6683771	2
20100801	718061	6683765	2
20100801	718054	6683756	3
20100801	718069	6683754	3
20100801	718057	6683745	4
20100801	718054	6683735	6
20100801	718069	6683733	1
20100801	718057	6683724	1
20100801	718062	6683724	1
20100801	718056	6683723	1
20100801	718062	6683713	1
20100801	718062	6683712	1
20100801	718037	6683704	1
20100801	718057	6683701	1
20100801	718067	6683694	1
20100801	718046	6683691	1
20100801	718028	6683689	1
20100801	717994	6683684	1
20100801	718027	6683678	2
20100801	718018	6683674	2
20100801	717987	6683673	1
20100801	718000	6683673	1
20100801	718046	6683663	5
20100801	718021	6683663	1
20100801	718058	6683661	1
20100801	718034	6683656	1
20100801	718055	6683652	1
20100801	718014	6683650	1
20100801	718055	6683643	1
20100801	717987	6683180	1
20100801	717986	6683169	1
20100801	717977	6683161	1
20100801	717971	6683159	2
20100801	717990	6683158	2
20100801	717984	6683148	1
20100801	718001	6683140	2
20100801	717970	6683108	1
20100801	717973	6683108	2
20100801	717964	6683100	1
20100801	717998	6683097	1
20100801	717989	6683094	1
20100801	717979	6683089	1
20100801	717966	6683087	1
20100801	717969	6683087	1
20100801	717988	6683086	5
20100801	717966	6683076	1
20100801	717985	6683076	1
20100801	717988	6683052	1
20100801	717978	6683049	2
20100801	717968	6683043	3
20100801	717978	6683039	2
20101117	717968	6683035	1
20100801	717987	6683030	3
20100801	717997	6683024	1
20100801	717978	6683022	1
20100801	717986	6683019	1
20100801	717967	6683017	1
20100801	718013	6683011	1

Locations of *Grevillea erectiloba* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20100801	718002	6683007	1
20100801	718024	6682999	1
20100801	718020	6682993	1
20100801	717981	6682993	1
20100801	717998	6682990	1
20100801	718008	6682990	1
20100801	718014	6682986	1
20100801	718025	6682985	2
20100801	717983	6682981	2
20101117	718008	6682978	2
20101117	718024	6682977	3
20101117	718002	6682977	1
20101117	718012	6682973	3
20100801	717974	6682973	1
20101117	718035	6682970	1
20101117	718033	6682968	1
20101117	717985	6682965	1
20101117	718043	6682964	1
20101117	718017	6682961	1
20101117	718010	6682960	1
20101117	718032	6682959	1
20100801	717981	6682959	1
20101117	717996	6682957	1
20101117	718037	6682956	1
20101117	718050	6682956	1
20101117	718011	6682950	1
20101117	718024	6682948	1
20101117	718035	6682947	3
20101117	718015	6682946	1
20101117	718018	6682941	1
20101117	718029	6682939	1
20101117	718069	6682936	1
20101117	718026	6682936	2
20101117	718038	6682935	1
20101117	718045	6682932	1
20101117	718060	6682931	1
20101117	718050	6682928	1
20101117	718035	6682925	1
20101117	717998	6682922	1
20101117	718039	6682921	1
20101117	718065	6682920	2
20101117	718067	6682920	1
20101117	718037	6682917	1
20101117	718043	6682917	1
20101117	718047	6682911	5
20101117	718057	6682908	2
20101117	718060	6682908	1
20101117	718052	6682903	1
20101117	718054	6682903	1
20101117	718063	6682900	1
20101117	717973	6682897	3
20101117	717985	6682897	1
20101117	718055	6682897	1
20101117	718003	6682897	1
20101117	718061	6682892	1
20101117	718044	6682886	1
20101117	717995	6682886	1
20101117	717992	6682882	1
20101117	718006	6682882	1
20101117	717976	6682882	1
20101117	717990	6682881	1

Locations of *Grevillea erectiloba* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	717986	6682878	1
20101117	718069	6682875	1
20101117	717976	6682874	1
20101117	718038	6682873	2
20101117	718040	6682868	2
20101117	718068	6682864	1
20101117	718067	6682863	2
20101117	718062	6682842	1
20101117	717978	6682813	1
20101117	718062	6682808	2
20101117	717985	6682799	1
20101117	717990	6682797	1
20101117	717991	6682792	1
20101117	717994	6682778	1
20101117	718061	6682636	1
20101117	717996	6682544	1
20101117	717976	6682125	1
20101117	718000	6682079	1
20101117	718001	6682078	1
20101117	717984	6682068	1
20101117	717987	6682068	1
20101117	717985	6682063	1
20101117	718056	6682057	1
20101117	718024	6682056	1
20101117	717979	6682052	1
20101117	718004	6682045	2
20101117	717980	6682044	1
20101117	717982	6682041	1
20101117	717979	6682039	1
20101117	717984	6682039	1
20101117	718030	6682034	3
20101117	717974	6682034	1
20101117	717981	6682034	1
20101117	717972	6682033	1
20101117	717977	6682033	1
20101117	718019	6682032	1
20101117	718039	6682032	1
20101117	717979	6682029	1
20101117	717979	6682027	1
20101117	718033	6682022	1
20101117	718011	6682019	1
20101117	717999	6682016	1
20101117	718048	6682005	1
20101117	717970	6682001	1
20101117	717978	6681994	1
20101117	717986	6681977	1
20101117	718064	6681550	1
20101117	718054	6681549	1
20101117	718071	6681549	1
20101117	718064	6681547	1
20101117	718060	6681544	2
20101117	718057	6681543	1
20101117	718063	6681543	1
20101117	718068	6681541	1
20101117	718063	6681538	1
20101117	717988	6681423	1
20101117	717992	6681415	1
20101117	717976	6681407	1
20101117	717977	6681406	1
20101117	717971	6681397	1
20101117	718059	6681394	2

Locations of *Grevillea erectiloba* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	718068	6681394	1
20101117	717983	6681393	5
20101117	717977	6681392	1
20101117	717980	6681390	1
20101117	717982	6681383	1
20101117	717976	6681380	1
20101117	717995	6681363	1
20101117	717969	6681342	1
20101117	717976	6681338	1
20101117	718057	6681336	1
20101117	717973	6681334	1
20101117	718062	6681331	1
20101117	717992	6681327	1
20101117	718013	6681326	2
20101117	717976	6681326	1
20101117	717981	6681325	1
20101117	718069	6681323	1
20101117	717969	6681320	1
20101117	717974	6681318	1
20101117	717973	6681316	1
20101117	718067	6681306	1
20101117	717983	6681285	1
20101117	718009	6681263	1
20101117	718019	6681263	1
20101117	718014	6681256	3
20101117	718042	6681252	2
20101117	718056	6681251	3
20101117	718024	6681251	1
20101117	718048	6681246	1
20101117	718029	6681241	1
20101117	718053	6681239	1
20101117	717993	6681238	1
20101117	718026	6681235	1
20101117	718051	6681235	1
20101117	718060	6681225	1
20101117	718057	6681220	2
20101117	718014	6681214	2
20101117	718025	6681213	6
20101117	718028	6681209	1
20101117	718062	6681209	2
20101117	718055	6681207	1
20101117	718013	6681203	3
20101117	718064	6681200	1
20101117	718029	6681198	1
20101117	718033	6681198	1
20101117	718055	6681198	1
20101117	718022	6681193	1
20101117	718012	6681190	2
20101117	718057	6681185	1
20101117	718061	6681183	1
20101117	718020	6681180	3
20101117	718059	6681170	1
20101117	718052	6681135	1
20101117	718054	6681135	1
20101117	718049	6681128	4
20101117	718057	6681122	1
20101117	718048	6681120	1
20101117	718040	6681119	4
20101117	718039	6681116	1
20101117	718045	6681113	1
20101117	718042	6681098	2

Locations of *Grevillea erectiloba* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	718048	6681098	1
20101117	718058	6681095	1
20101117	718060	6681095	1
20101117	718052	6681093	2
20101117	718062	6681090	2
20101117	717970	6681084	1
20101117	718024	6681083	1
20101117	718062	6681081	1
20101117	717974	6681081	1
20101117	717980	6681081	1
20101117	717974	6681079	1
20101117	718003	6681075	2
20101117	718014	6681074	1
20101117	717970	6681071	1
20101117	717988	6681069	2
20101117	718020	6681069	1
20101117	718057	6681068	1
20101117	718069	6681068	2
20101117	718025	6681068	1
20101117	717998	6681063	2
20101117	718017	6681062	4
20101117	718057	6681061	1
20101117	718010	6681061	4
20101117	717986	6681054	1
20101117	717999	6681053	1
20101117	717985	6681051	1
20101117	717998	6681050	1
20101117	717985	6681050	1
20101117	718017	6681049	1
20101117	717980	6681049	1
20101117	718061	6681048	1
20101117	718022	6681048	3
20101117	717999	6681047	1
20101117	718023	6681047	1
20101117	717999	6681046	1
20101117	718059	6681046	1
20101117	717984	6681045	1
20101117	717996	6681043	1
20101117	717999	6681043	1
20101117	718000	6681043	1
20101117	718057	6681043	1
20101117	717994	6681040	1
20101117	717992	6681038	1
20101117	718023	6681038	1
20101117	718026	6681038	2
20101117	718026	6681037	3
20101117	717994	6681036	1
20101117	718013	6681035	5
20101117	718032	6681023	1
20101117	718041	6681021	1
20101117	718010	6681017	1
20101117	718055	6681013	1
20101117	718050	6681006	1
20101117	718022	6681006	1
20101117	718032	6681005	1
20101117	718038	6681005	1
20101117	718042	6681004	1
20101117	718053	6681004	1
20101117	718056	6681004	1
20101117	718035	6680998	1
20101117	718045	6680996	1

Locations of *Grevillea erectiloba* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	718031	6680994	3
20101117	718034	6680994	1
20101117	718051	6680993	2
20101117	717990	6680990	1
20101117	717971	6680989	1
20101117	717973	6680988	1
20101117	717968	6680986	1
20101117	718033	6680979	1
20101117	717966	6680976	1
20101117	717969	6680976	1
20101117	718036	6680975	1
20101117	717971	6680971	1
20101117	717974	6680971	1
20101117	717975	6680970	3
20101117	717959	6680968	1
20101117	718050	6680967	1
20101117	717999	6680967	1
20101117	718009	6680966	1
20101117	717987	6680959	1
20101117	718000	6680954	4
20101117	718054	6680951	1
20101117	717983	6680948	1
20101117	717987	6680944	1
20101117	718005	6680943	4
20101117	718017	6680942	1
20101117	717999	6680942	1
20101117	717983	6680941	1
20101117	717999	6680941	1
20101117	717999	6680938	1
20101117	717984	6680936	1
20101117	717987	6680935	1
20101117	718018	6680931	3
20101117	718000	6680926	1
20101117	717990	6680923	1
20101117	717981	6680922	1
20101117	718023	6680921	1
20101117	718026	6680921	1
20101117	718010	6680920	1
20101117	718023	6680920	1
20101117	718019	6680919	4
20101117	717996	6680918	1
20101117	717988	6680915	1
20101117	718011	6680910	1
20101117	717988	6680906	1
20101117	718000	6680904	3
20101117	717984	6680899	1
20101117	717988	6680899	1
20101117	717981	6680893	1
20101117	717994	6680889	6
20101117	718014	6680886	2
20101117	717965	6680885	1
20101117	718004	6680883	3
20101117	718034	6680882	2
20101117	717970	6680880	1
20101117	718020	6680877	1
20101117	717973	6680873	1
20101117	717976	6680872	1
20101117	717974	6680870	1
20101117	717976	6680869	1
20101117	717973	6680866	1
20101117	717991	6680856	1

Locations of *Grevillea erectiloba* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	717978	6680850	1
20101117	717994	6680845	2
20101117	717986	6680841	1
20101117	717983	6680840	1
20101117	717981	6680836	1
20101117	717978	6680833	1
20101117	717977	6680830	1
20101117	717977	6680829	1
20101117	717977	6680828	1
20101117	717978	6680828	1
20101117	717980	6680828	1
20101117	717973	6680825	1
20101117	717977	6680825	1
20101117	718048	6680824	2
20101117	717993	6680824	2
20101117	718006	6680824	1
20101117	717978	6680822	1
20101117	717965	6680820	1
20101117	717964	6680817	1
20101117	717981	6680816	1
20101117	717965	6680814	1
20101117	717965	6680809	1
20101117	718024	6680798	1
20101117	717969	6680798	1
20101117	717982	6680795	1
20101117	718021	6680793	1
20101117	717996	6680787	1
20101117	718037	6680785	1
20101117	718041	6680785	1
20101117	717986	6680777	5
20101117	717976	6680774	1
20101117	718005	6680765	2
20101117	717970	6680763	1
20101117	717991	6680760	1
20101117	717981	6680759	6
20101117	718002	6680755	1
20101117	718008	6680754	2
20101117	718000	6680750	1
20101117	718030	6680748	1
20101117	718006	6680740	1
20101117	718060	6680738	1
20101117	717984	6680737	1
20101117	718041	6680719	1
20101117	718045	6680705	1
20101117	718061	6680699	1
20101117	717993	6680660	1
20101117	717994	6680656	1
20101117	718004	6680646	1
20101117	718040	6680640	1
20101117	718043	6680635	1
20101117	718042	6680627	1
20101117	718009	6680627	6
20101117	718039	6680618	1
20101117	718009	6680615	3
20101117	718027	6680611	4
20101117	718043	6680605	1
20101117	718029	6680602	1
20101117	718032	6680598	1
20101117	718034	6680596	1
20101117	718042	6680596	1
20101117	717964	6680594	1

Locations of *Grevillea erectiloba* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	717963	6680593	1
20101117	717960	6680590	10
20101117	718045	6680586	1
20101117	717961	6680585	1
20101117	717957	6680583	1
20101117	717959	6680583	1
20101117	718035	6680583	1
20101117	718003	6680582	2
20101117	717956	6680580	1
20101117	717963	6680578	1
20101117	717964	6680575	1
20101117	718029	6680574	1
20101117	718042	6680569	1
20101117	718037	6680568	1
20101117	717978	6680566	3
20101117	717968	6680565	1
20101117	717969	6680556	1
20101117	717992	6680545	5
20101117	718009	6680544	1
20101117	718010	6680541	1
20101117	717988	6680535	2
20101117	718058	6680532	1
20101117	718055	6680527	1
20101117	717958	6680527	1
20101117	717984	6680524	1
20101117	718056	6680524	1
20101117	717994	6680520	1
20101117	718050	6680518	3
20101117	718000	6680510	2
20101117	718040	6680509	1
20101117	718045	6680508	1
20101117	717989	6680504	4
20101117	718031	6680500	1
20101117	718031	6680494	1
20101117	718025	6680493	1
20101117	717961	6680491	1
20101117	717981	6680491	3
20101117	718002	6680489	1
20101117	718027	6680489	1
20101117	717986	6680486	1
20101117	717991	6680486	2
20101117	718030	6680485	3
20101117	718022	6680484	3
20101117	717989	6680482	1
20101117	718012	6680481	1
20101117	718018	6680479	1
20101117	718004	6680478	1
20101117	717992	6680477	1
20101117	717996	6680477	1
20101117	717990	6680475	1
20101117	718012	6680473	1
20101117	718016	6680472	1
20101117	718019	6680472	2
20101117	717996	6680472	1
20101117	717993	6680471	1
20101117	718014	6680468	3
20101117	718036	6680466	1
20101117	717979	6680258	2
20101117	717960	6680239	1
20101117	717965	6680234	1
20101117	717963	6680229	1

Locations of *Grevillea erectiloba* (Priority 4) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	717942	6680224	1
20101117	717918	6680222	1
20101117	717926	6680220	1
20101117	717926	6680219	1
20101117	717917	6680215	1
20101117	717928	6680213	1
20101117	717970	6680206	1
20101117	717910	6680192	1
20101117	717962	6680191	1

Other Species of Interest

Locations of *Philotheca deserti* subsp. ?nov. (Flora of Interest – Potential new subspecies) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20100801	718069	6683754	2
20100801	718057	6683745	4
20100801	718070	6683744	13
20100801	718045	6683735	1
20100801	718056	6683735	4
20100801	718057	6683735	1
20100801	718069	6683733	7
20100801	718050	6683724	6
20100801	718062	6683724	1
20100801	718056	6683723	10
20100801	718066	6683722	3
20100801	718067	6683722	7
20100801	718062	6683712	6
20100801	718047	6683706	2
20100801	718057	6683701	6
20100801	718056	6683695	3
20100801	718067	6683694	12
20100801	718046	6683691	12
20100801	718056	6683686	4
20100801	718056	6683676	19
20100801	718049	6683672	5
20100801	718064	6683665	8
20100801	718058	6683661	5
20100801	718034	6683656	1
20100801	718058	6683655	9
20100801	718043	6683653	3
20100801	718058	6683653	3
20100801	718055	6683652	6
20100801	718068	6683652	3
20100801	718055	6683643	7
20100801	718066	6683643	2
20100801	718048	6683636	2
20100801	718058	6683633	1
20100801	718029	6683175	1
20100801	717973	6683148	2
20100801	717990	6683142	1
20100801	717979	6683138	5
20100801	717989	6683132	1
20100801	717967	6683129	2
20100801	717983	6683128	1
20100801	717995	6683125	1
20100801	717976	6683119	6
20100801	718007	6683116	1
20100801	717970	6683108	6

Locations of *Philotheca deserti* subsp. ?nov. (Flora of Interest – Potential new subspecies) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20100801	717973	6683108	1
20100801	717995	6683108	1
20100801	717964	6683100	5
20100801	717969	6683097	1
20100801	717966	6683087	1
20100801	717988	6683086	1
20100801	717966	6683076	1
20100801	717985	6683076	1
20100801	717978	6683072	2
20100801	717970	6683066	2
20100801	717969	6683055	7
20100801	717978	6683049	3
20100801	717968	6683045	5
20100801	717968	6683043	2
20100801	717978	6683039	5
20100801	717987	6683039	3
20100801	717999	6683036	1
20100801	717998	6683032	3
20100801	718009	6683032	3
20100801	717987	6683030	3
20100801	717967	6683027	2
20100801	717997	6683024	6
20100801	717978	6683022	5
20100801	717986	6683019	21
20100801	717967	6683017	18
20100801	717977	6683012	11
20100801	718013	6683011	5
20100801	718002	6683007	10
20100801	717977	6683005	2
20100801	717992	6683002	6
20100801	718024	6682999	2
20100801	718024	6682996	1
20100801	717971	6682995	1
20100801	718002	6682994	2
20100801	718035	6682994	3
20100801	718020	6682993	1
20100801	717981	6682993	6
20100801	717992	6682991	1
20100801	717998	6682990	1
20100801	718008	6682990	3
20100801	718014	6682986	2
20100801	717983	6682981	3
20101117	718060	6682978	1
20101117	718048	6682975	1
20101117	718055	6682974	1
20101117	718074	6682968	1
20101117	718053	6682967	1
20101117	718066	6682966	1
20101117	718022	6682966	1
20101117	718051	6682963	1
20100801	717973	6682963	1
20101117	718045	6682961	7
20101117	718035	6682960	1
20101117	718058	6682959	1
20101117	718030	6682958	3
20101117	718036	6682958	1
20101117	718041	6682956	9
20101117	718043	6682956	1
20101117	718045	6682956	1
20101117	718027	6682955	1
20101117	718034	6682954	1

Locations of *Philotheca deserti* subsp. ?nov. (Flora of Interest – Potential new subspecies) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	718039	6682954	1
20101117	718041	6682954	2
20101117	718060	6682953	1
20101117	717973	6682952	1
20101117	718012	6682950	1
20101117	718042	6682948	1
20101117	718044	6682948	1
20101117	718037	6682947	2
20101117	718050	6682947	2
20101117	718053	6682944	2
20101117	718017	6682943	1
20101117	718055	6682942	1
20101117	718069	6682942	1
20101117	718055	6682941	2
20101117	718057	6682941	3
20101117	718062	6682941	3
20101117	718070	6682941	3
20101117	717969	6682939	1
20101117	718062	6682939	1
20101117	718064	6682939	1
20101117	718059	6682937	1
20101117	718052	6682936	1
20101117	718064	6682935	2
20101117	718047	6682935	1
20101117	717994	6682932	6
20101117	718059	6682931	1
20101117	718060	6682931	1
20101117	717993	6682930	1
20101117	717993	6682929	1
20101117	717978	6682928	1
20101117	718047	6682928	1
20101117	718047	6682926	1
20101117	718052	6682926	1
20101117	718054	6682926	1
20101117	718055	6682926	1
20101117	718035	6682925	1
20101117	718062	6682922	3
20101117	718064	6682922	1
20101117	718045	6682920	1
20101117	718054	6682920	2
20101117	718055	6682920	12
20101117	718067	6682920	1
20101117	718050	6682919	4
20101117	718059	6682919	5
20101117	718043	6682917	1
20101117	718062	6682917	3
20101117	717991	6682911	9
20101117	718047	6682911	1
20101117	718026	6682910	6
20101117	717980	6682908	1
20101117	717980	6682908	1
20101117	718060	6682908	4
20101117	718016	6682908	6
20101117	718026	6682904	2
20101117	717995	6682901	3
20101117	718063	6682900	1
20101117	718064	6682900	1
20101117	717973	6682898	2
20101117	718050	6682898	5
20101117	718051	6682898	12
20101117	718055	6682898	2

Locations of *Philothea deserti* subsp. ?nov. (Flora of Interest – Potential new subspecies) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	718055	6682897	1
20101117	717986	6682896	10
20101117	718061	6682892	3
20101117	718059	6682889	2
20101117	717995	6682886	6
20101117	718056	6682886	1
20101117	718058	6682883	2
20101117	718006	6682882	4
20101117	718064	6682880	1
20101117	718046	6682878	2
20101117	717978	6682876	1
20101117	718068	6682875	4
20101117	718069	6682875	1
20101117	718069	6682874	2
20101117	718013	6682874	1
20101117	718053	6682872	7
20101117	718002	6682872	11
20101117	718053	6682868	3
20101117	718048	6682866	2
20101117	718067	6682863	2
20101117	718064	6682859	2
20101117	717992	6682858	2
20101117	718059	6682858	2
20101117	717995	6682857	1
20101117	718015	6682855	1
20101117	718038	6682855	2
20101117	718046	6682854	4
20101117	718008	6682852	15
20101117	718028	6682852	3
20101117	717992	6682850	1
20101117	718001	6682850	6
20101117	718060	6682848	1
20101117	718009	6682843	10
20101117	718058	6682842	2
20101117	718045	6682838	6
20101117	718018	6682838	3
20101117	718052	6682828	3
20101117	718060	6682828	1
20101117	718018	6682828	3
20101117	718055	6682826	1
20101117	717991	6682819	5
20101117	718055	6682819	1
20101117	718033	6682818	3
20101117	718042	6682817	3
20101117	718014	6682814	5
20101117	717982	6682814	8
20101117	718042	6682812	2
20101117	718066	6682811	2
20101117	717980	6682811	8
20101117	718062	6682808	4
20101117	718032	6682807	3
20101117	718038	6682807	4
20101117	718058	6682806	1
20101117	718014	6682804	6
20101117	718069	6682803	1
20101117	718020	6682803	3
20101117	718062	6682802	3
20101117	718069	6682802	1
20101117	718067	6682800	3
20101117	718039	6682798	9
20101117	718059	6682798	1

Locations of *Philotheca deserti* subsp. ?nov. (Flora of Interest – Potential new subspecies) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	718052	6682797	1
20101117	718066	6682797	1
20101117	718011	6682792	3
20101117	718029	6682792	4
20101117	718029	6682792	2
20101117	718038	6682786	1
20101117	717978	6682785	15
20101117	718034	6682784	10
20101117	718035	6682782	1
20101117	718042	6682781	1
20101117	718043	6682781	3
20101117	718019	6682780	3
20101117	718029	6682779	3
20101117	718042	6682778	2
20101117	718061	6682776	1
20101117	718046	6682773	2
20101117	718035	6682772	5
20101117	718009	6682769	2
20101117	718061	6682767	2
20101117	718019	6682766	1
20101117	717985	6682764	1
20101117	718036	6682762	2
20101117	718021	6682761	2
20101117	718031	6682760	2
20101117	718062	6682759	1
20101117	718063	6682758	2
20101117	718015	6682756	7
20101117	718057	6682753	1
20101117	718026	6682750	1
20101117	718028	6682749	3
20101117	718066	6682748	2
20101117	718002	6682735	3
20101117	718063	6682731	1
20101117	717997	6682727	1
20101117	718008	6682727	1
20101117	717990	6682722	1
20101117	718009	6682716	1
20101117	718029	6682695	1
20101117	718006	6682685	2
20101117	718037	6682683	1
20101117	718009	6682667	3
20101117	717989	6682664	3
20101117	717975	6682662	1
20101117	717988	6682654	1
20101117	718013	6682628	1
20101117	718058	6682625	1
20101117	718022	6682545	1
20101117	718033	6682541	1
20101117	718058	6682354	1
20101117	717981	6682122	1
20101117	718030	6682034	1
20101117	717994	6682030	1
20101117	717998	6682026	3
20101117	717983	6682025	1
20101117	717994	6682015	3
20101117	717987	6682009	1
20101117	718061	6681987	1
20101117	718047	6681984	3
20101117	718041	6681982	6
20101117	718044	6681971	2
20101117	718057	6681969	5

Locations of *Philothea deserti* subsp. ?nov. (Flora of Interest – Potential new subspecies) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	718059	6681965	3
20101117	718040	6681960	2
20101117	718053	6681958	3
20101117	718028	6681954	1
20101117	717989	6681948	1
20101117	718018	6681946	4
20101117	718048	6681945	1
20101117	718050	6681939	1
20101117	718020	6681935	2
20101117	718040	6681928	1
20101117	718033	6681917	1
20101117	718027	6681914	1
20101117	717973	6681914	1
20101117	718045	6681913	1
20101117	718045	6681909	3
20101117	718050	6681909	1
20101117	717988	6681896	1
20101117	718049	6681889	1
20101117	718034	6681884	1
20101117	718035	6681868	1
20101117	718044	6681867	1
20101117	718033	6681859	1
20101117	718003	6681830	1
20101117	718000	6681821	3
20101117	718035	6681812	1
20101117	718037	6681294	1
20101117	718056	6681262	1
20101117	718030	6681262	4
20101117	718045	6681248	1
20101117	718048	6681246	1
20101117	718055	6681244	1
20101117	718003	6681232	1
20101117	718057	6681220	1
20101117	718025	6681213	2
20101117	718022	6681204	3
20101117	718013	6681203	3
20101117	718022	6681193	6
20101117	718012	6681190	1
20101117	718023	6681185	1
20101117	718061	6681183	1
20101117	718020	6681180	2
20101117	718048	6681098	3
20101117	717979	6681078	1
20101117	718016	6680830	1
20101117	717973	6680826	1
20101117	718016	6680819	2
20101117	718039	6680804	2
20101117	717986	6680777	1
20101117	717967	6680774	1
20101117	717976	6680774	1
20101117	717975	6680759	1
20101117	717978	6680758	1
20101117	717985	6680746	1
20101117	718002	6680732	1
20101117	718001	6680731	5
20101117	718045	6680618	1
20101117	718043	6680605	1
20101117	718060	6680602	1
20101117	718035	6680583	1
20101117	718011	6680572	1
20101117	718042	6680566	2

Locations of *Philotheca deserti* subsp. ?nov. (Flora of Interest – Potential new subspecies) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101117	717998	6680562	1
20101117	718048	6680513	1
20101117	718002	6680489	1
20101117	718004	6680478	6
20101117	718024	6680469	1

Locations of *Calytrix* sp. nov. (Flora of Interest – Potential new species) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20101201	719910	6695983	5
20101201	719970	6695982	4
20101201	719972	6695981	1
20101201	719975	6695980	4
20101201	719974	6695977	8
20101201	719971	6695976	8
20101201	719974	6695973	5
20101201	719965	6695963	3
20101201	719965	6695963	13
20101201	719964	6695962	6
20101201	719929	6695961	10
20101201	719914	6695957	2
20101201	719942	6695956	15
20101130	719878	6695955	scattered
20101201	719929	6695954	12
20101201	719924	6695954	17
20101201	719919	6695951	10
20101118	719939	6695950	scattered
20101201	719941	6695949	9
20101201	719931	6695949	22
20101201	719945	6695946	6
20101201	719942	6695944	12
20101201	719937	6695943	7
20101201	719973	6695942	10
20101201	719934	6695942	3
20101201	719940	6695940	1
20101201	719974	6695939	16
20101201	719976	6695938	8

Location of *Glycine peratosa* (Flora of Interest – Substantial range extension) recorded during the current survey work in the Deception Deposit study area.

Date (yyyy/mm/dd)	Easting (mE)	Northing (mN)	Number of Individuals
20100801	718008	6686633	1

Appendix 7

Vascular Flora Species List



NB: * denotes introduced species

Aizoaceae

**Cleretum papulosum* subsp. *papulosum*
Gunnopsis sp. (insufficient material for further determination)

Amaranthaceae

Ptilotus drummondii
Ptilotus exaltatus var. *villosus*
Ptilotus gaudichaudii var. *gaudichaudii*
Ptilotus humilis subsp. *parviflorus*
Ptilotus obovatus var. *obovatus*
Ptilotus spathulatus forma *spathulatus*

Apiaceae

Daucus glochidiatus

Apocynaceae

Alyxia buxifolia
Marsdenia australis
Rhyncharrhena linearis

Araliaceae

Trachymene ceratocarpa
Trachymene ornata
Trachymene pilosa

Asparagaceae

Chamaexeros fimbriata
Chamaexeros macranthera
Lomandra effusa
Thysanotus manglesianus
Thysanotus patersonii
Thysanotus speckii

Asteraceae

Actinobole uliginosum
Bellida graminea
Brachyscome ciliaris var. *ciliaris*
Brachyscome ciliocarpa
Brachyscome iberidifolia
Brachyscome perpusilla var. *tenella*
Brachyscome pusilla
Calocephalus multiflorus
Calotis hispidula
**Centaurea melitensis*
Cephalipterum drummondii
Ceratogyne obionoides
Chthonocephalus pseudevax
Erymophyllum ramosum subsp. *ramosum*
Gilberta tenuifolia
Gilruthia osbornei
Gnephosis tenuissima
Hyalosperma demissum
Isoetopsis graminifolia
Lawrencella davenportii
Lawrencella rosea
Lemooria burkittii
Millotia myosotidifolia
Millotia perpusilla
Olearia exiguifolia
Olearia humilis
Olearia muelleri

Olearia pimeleoides
Olearia ? *pimeleoides* (fine leaves)
Olearia stuartii
Podolepis canescens
Podolepis capillaris
Podolepis lessonii
Podotheca sp.
Rhodanthe battii
Rhodanthe laevis
Rhodanthe manglesii
Rhodanthe oppositifolia
Schoenia cassiniana
Senecio glossanthus
 **Sonchus oleraceus*
Vittadinia humerata
Waitzia acuminata var. *acuminata*

Boraginaceae

Omphalolappula concava
Plagiobothrys plurisepalus

Boryaceae

Borya constricta

Brassicaceae

**Brassica tournefortii* (outside current haul road corridor)
 **Carrichtera annua* (outside current haul road corridor)
Lepidium oxytrichum
Lepidium phlebopetalum
Menkea australis
 **Sisymbrium irio* (outside current haul road corridor)
Stenopetalum filifolium
Stenopetalum lineare

Campanulaceae

Isotoma petraea
Lobelia sp. (insufficient material for further determination)
Wahlenbergia gracilentia

Casuarinaceae

Allocasuarina acutivalvis subsp. *acutivalvis*
Allocasuarina acutivalvis subsp. *prinsepiana*
Allocasuarina acutivalvis (sterile; subsp. not determined)
Allocasuarina dielsiana
Allocasuarina eriochlamys subsp. *eriochlamys*
Casuarina pauper

Chenopodiaceae

Atriplex nummularia subsp. *spathulata*
Atriplex quadrivalvata var. *quadrivalvata*
Atriplex stipitata
Atriplex vesicaria
 ? *Chenopodium* sp.
Einadia nutans subsp. *eremaea*
Enchylaena lanata
Enchylaena tomentosa var. *tomentosa*
Eriochiton sclerolaenoides
Maireana carnosia
Maireana georgei
Maireana tomentosa
Maireana trichoptera
Maireana triptera
Maireana villosa

Maireana ? *villosa* x *planifolia*
Maireana sp. (insufficient material for further determination)
Rhagodia ? *drummondii* (may include two taxa)
Rhagodia preissii subsp. *obovata*
Salsola tragus
Sclerolaena diacantha
Sclerolaena drummondii
Sclerolaena fusiformis
Sclerolaena parviflora

Colchicaceae

Wurmbea ? *graniticola*

Convolvulaceae

**Cuscuta epithymum*
**Cuscuta planiflora* (outside current haul road corridor)

Crassulaceae

Crassula colorata var. *acuminata*
Crassula colorata var. *colorata*
Crassula ? *extrorsa*

Cupressaceae

Callitris columellaris

Dilleniaceae

Hibbertia eatoniae
Hibbertia exasperata

Droseraceae

Drosera macrantha subsp. *macrantha*

Ericaceae

Leucopogon sp. Clyde Hill (M.A. Burgman 1207)

Euphorbiaceae

Calycopeplus paucifolius
Euphorbia drummondii subsp. *drummondii*
Euphorbia tannensis subsp. *eremophila*

Fabaceae

Acacia acanthoclada subsp. *glaucescens*
Acacia andrewsii
Acacia "aneura" var. ? (insufficient material from juvenile plant)
Acacia aptaneura
Acacia caesaneura
Acacia caesaneura (narrow phyllode variant)
Acacia ? *caesaneura* (narrow phyllode variant)
Acacia caesaneura x *mulganeura*
Acacia ? *caesaneura* x *mulganeura*
Acacia cockertoniana
Acacia colletioides
Acacia effusifolia
Acacia erinacea
Acacia incurvaneura
Acacia incurvaneura x ?
Acacia ? *incurvaneura*
Acacia ? *incurvaneura* x *mulganeura*
Acacia jennerae
Acacia lasiocalyx
Acacia longispinea
Acacia mulganeura
Acacia murrayana
Acacia obtecta
Acacia prainii
Acacia quadrimarginea

Acacia ramulosa var. *ramulosa*
Acacia resinosa
Acacia sibina
Acacia sibirica
Acacia tetragonophylla
Acacia sp. narrow phyllode (B.R. Maslin 7831)
Acacia ? sp. Mt Jackson (B. Ryan 176) (sterile)
Acacia sp. (insufficient material)
Bossiaea walkeri
Daviesia purpurascens
Glycine peratosa
Mirbelia microphylla
Senna artemisioides subsp. *filifolia*
Senna artemisioides subsp. x *artemisioides*
Senna cardiosperma
Senna pleurocarpa var. *pleurocarpa*
Swainsona oliveri

Frankeniaceae

Frankenia sp. 1 (pending further determination)
Frankenia sp. 2 (pending further determination)

Geraniaceae

**Erodium cicutarium* (outside current haul road corridor)
Erodium cygnorum

Goodeniaceae

Brunonia australis
Goodenia berardiana
Goodenia havilandii
Goodenia occidentalis
Goodenia pinnatifida
Scaevola spinescens (broad leaf, non-spiny form)
Scaevola spinescens (spiny, fine leaf)
Scaevola ? *spinescens*
Velleia ? *hispida*
Velleia rosea

Haloragaceae

Haloragis trigonocarpa

Hemerocallidaceae

? *Caesia* sp. (sterile material)
Dianella revoluta var. *divaricata*

Juncaginaceae

Triglochin sp. A Flora of Australia (G.J. Keighery 2477)

Lamiaceae

Hemigenia ? *buccinata*
Hemigenia pedunculata
Prostanthera althoferi subsp. *althoferi*
Prostanthera campbellii
Prostanthera campbellii x *althoferi*
Prostanthera grylloana
Prostanthera magnifica
Spartothamnella teucriflora
Spartothamnella sp. Helena & Aurora Range (P.G. Armstrong 155-109)
Westringia cephalantha var. *cephalantha*
Wrixonia prostantheroides

Lauraceae

Cassytha melantha

Loranthaceae

Amyema benthamii

Amyema gibberula var. *gibberula*
Amyema miquelii
Amyema nestor
Amyema preissii
Lysiana casuarinae

Malvaceae

Abutilon cryptopetalum
Brachychiton gregorii
Keraudrenia velutina subsp. *velutina*
Rulingia luteiflora
Sida calyxhymenia
Sida sp. dark green fruits (S. van Leeuwen 2260)
Sida sp. Golden calyces glabrous (H.N. Foote 32)
Sida sp. (insufficient material)

Myrtaceae

Aluta aspera subsp. *aspera*
Baeckea elderiana
Baeckea ochropetala
Baeckea sp. Parker Range (M. Hislop & F. Hort MH2968) PN
Calytrix sp. Paynes Find (F. & J. Hort 1188)
Calytrix sp. (probable new species)
Eucalyptus celastroides subsp. *celastroides*
Eucalyptus concinna
Eucalyptus corrugata
Eucalyptus ewartiana
Eucalyptus formanii
Eucalyptus leptopoda subsp. *subluta*
Eucalyptus longissima
Eucalyptus loxophleba subsp. *lissophloia*
Eucalyptus salmonophloia
Eucalyptus salubris
Eucalyptus transcontinentalis
Eucalyptus yilgarnensis
Euryomyrtus patrickiae
Homalocalyx thryptomenoides
Leptospermum fastigiatum
Malleostemon tuberculatus
Melaleuca acuminata subsp. *acuminata*
Melaleuca hamata
Melaleuca leiocarpa
Melaleuca radula
Thryptomene kochii
Verticordia helmsii

Ophioglossaceae

Ophioglossum lusitanicum

Orchidaceae

Cyanicula amplexans
Pterostylis sp. inland (A.C. Beauglehole 11880)
Thelymitra petrophila

Pittosporaceae

Bursaria occidentalis
Pittosporum angustifolium

Plantaginaceae

Plantago debilis

Poaceae

Amphipogon caricinus var. *caricinus*
Anthosachne scaber

Aristida contorta
Austrodanthonia caespitosa
Austrodanthonia ? setacea
Austrostipa elegantissima
Austrostipa eremophila
Austrostipa nitida
Austrostipa nodosa
Austrostipa platychaeta
Austrostipa scabra
Austrostipa ? scabra
Austrostipa tenuifolia
Austrostipa trichophylla
Enneapogon caerulescens
Eragrostis eriopoda
Eriachne pulchella subsp. *pulchella*
Monachather paradoxus
**Pentaschistis airoides* subsp. *airoides*
**Rostraria pumila*
Thyridolepis mitchelliana
Triodia rigidissima
Triodia tomentosa
Tripogon loliformis

Polygalaceae

Comesperma integerrimum

Portulacaceae

Calandrinia eremaea
Calandrinia granulifera
Calandrinia sp. Blackberry (D.M. Porter 171)
Calandrinia sp. (insufficient material for further determination; could be *C. eremaea* or *Calandrinia* sp. Blackberry)

Proteaceae

Dryandra arborea (= *Banksia arborea*)
Grevillea acacioides
Grevillea acuaria
Grevillea erectiloba
Grevillea extorris
Grevillea nematophylla subsp. *nematophylla*
Grevillea obliquistigma subsp. *obliquistigma*
Grevillea sarissa
Hakea minyma
Hakea recurva subsp. *recurva*

Pteridaceae

Cheilanthes adiantoides
Cheilanthes brownii
Cheilanthes sieberi subsp. *sieberi*

Rhamnaceae

Cryptandra connata
Stenanthemum stipulosum

Rubiaceae

Psyrax suaveolens

Rutaceae

Phebalium canaliculatum
Phebalium tuberculosum
Philotheca brucei subsp. *brucei*
Philotheca coateana
Philotheca deserti subsp. ? nov.
Philotheca tomentella

Santalaceae

Exocarpos aphyllus
Santalum acuminatum
Santalum spicatum

Sapindaceae

Dodonaea inaequifolia
Dodonaea lobulata
Dodonaea rigida
Dodonaea viscosa subsp. *angustissima*

Scrophulariaceae

Eremophila alternifolia
Eremophila caperata
Eremophila clarkei
Eremophila decipiens subsp. *decipiens*
Eremophila eriocalyx
Eremophila forrestii subsp. *forrestii*
Eremophila aff. *forrestii* (? hybrid)
Eremophila glabra subsp. *glabra*
Eremophila granitica
Eremophila ionantha
Eremophila latrobei subsp. *latrobei*
Eremophila longifolia
Eremophila metallicorum
Eremophila oldfieldii subsp. *angustifolia*
Eremophila oppositifolia subsp. *angustifolia*
Eremophila pantonii
Eremophila scoparia
Eremophila serrulata
Phyllangium sulcatum

Solanaceae

Nicotiana occidentalis
Nicotiana rotundifolia
Nicotiana sp. (insufficient material for further determination)
Solanum ellipticum
Solanum hoplopetalum
Solanum lasiophyllum
Solanum nummularium

Stylidiaceae

Stylidium dielsianum

Thymelaeaceae

Pimelea spiculigera var. *thesioides*

Urticaceae

Parietaria cardiostegia

Violaceae

Hybanthus floribundus subsp. *curvifolius*

Zygophyllaceae

Zygophyllum apiculatum
Zygophyllum aurantiacum
Zygophyllum eremaeum

Fungi

Coriolaceae

Pycnoporus coccineus

Geastraceae

Geastrum sp.

Podaxaceae

Podaxis pistillaris

Stereaceae

Battarea sp.

Tulostoma sp.

Appendix 8

Outputs of the PRIMER Floristic Analysis



