Emu Swamp Dam

TERRESTRIAL ECOLOGY - FIELD SURVEY RESULTS

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Emu Swamp Dam

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Terrestrial Ecology - Field Survey Results



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1. Introduction

This report describes the terrestrial surveys undertaken in July and October 2013 and January 2014 by SKM to provide additional information for preparation of the Emu Swamp Dam Supplementary report. The need for additional information was identified after review of the public and government agency submissions received for the Emu Swamp Dam Environmental Impact Statement (EIS).

This report is structured as follows:

- Introduction, describing the study area and objectives
- Methodology, describing desktop assessment and field survey methods
- Results, summarising the desktop and field survey results and including mapping display of results
- Discussion of results

1.1 Study Area

The Project is located approximately 15 km south west of Stanthorpe within the Stanthorpe Plateau subbioregion of the New England Tableland bioregion at the upper part of the Severn River catchment.

Geology of the study area consists of an extensive granite complex, the New England Batholith. Landform elements within the study area include loamy granite plains, alluvial drainage lines, and granite slopes and knolls.

Vegetation in the area includes remnant and regrowth native woodlands and shrublands as well as pasture areas dominated by exotic grasses. Native vegetation has been previously impacted by clearing for agriculture and rural-residential land use as well as by fire and flood events.

1.2 Study Objectives

Objectives of the terrestrial flora study are to:

- Identify the extent of the White Box Yellow Box Blakely's Red Gum Grassy Woodlands and Derived Native Grasslands Critically Endangered Threatened Ecological Community (Box-Gum Grassy Woodland TEC) in the study area and downstream of the proposed dam to put into context the impact on this community that would result from the Emu Swamp Dam Project
- Determine the population size and locations of *Melaleuca williamsii* (syn. *Callistemon pungens*) in the study area to enable quantification of the Project's impact on the local population of this species
- Collect BioCondition data to determine the condition of the vegetation/habitat to be impacted and to provide input data to establish condition values for Commonwealth and State offsets.



2. Methodology

2.1 Desktop assessment

2.1.1 Critically Endangered Threatened Ecological Community (TEC)

The Box-Gum Grassy Woodland is listed as a critically endangered TEC under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The listing advice for this community provides a list of Regional Ecosystems (REs) that may contain Box-Gum Grassy Woodland (TSSC, 2006). REs that were investigated from the study area that may contain the Box-Gum Grassy Woodland are listed below:

- RE 13.3.1 Eucalyptus blakelyi woodland on alluvial plains
- RE 13.3.4 Eucalyptus conica, E. microcarpa, E. melliodora woodland on alluvial plains
- RE 13.11.8 Eucalyptus melliodora and/or Eucalyptus microcarpa/ E. moluccana woodland on metamorphics
- RE 13.12.8 Eucalyptus melliodora and/or E. moluccana/ E. microcarpa and/or E. conica woodland on igneous rocks
- RE 13.12.9 Eucalyptus blakelyi and/or E. caliginosa woodland to open forest on igneous rocks

Spatial analysis was used to identify vegetation in the study area, including along the Severn River downstream to Accommodation Creek, mapped by DNRM (2011) as containing the REs listed above.

Vegetation mapping undertaken by 3D Environmental (2007) in the Project impact areas was also reviewed to determine the location and extent of these REs in the FSL and pipeline alignments.

2.1.2 Threatened Flora – Melaleuca williamsii

The following information sources were reviewed to determine where suitable habitat exists for *M. williamsii* in the study area:

- Terrestrial Flora Baseline Study, Emu Swamp Dam Project (3D Environmental, 2007)
- Australia's Virtual Herbarium (CHAH, 2013)
- DNRM vegetation mapping (Version 6.1) (regional ecosystems, high value regrowth, essential habitat and pre-clearing)
- The regional ecosystem description database (REDD) (DNRM, 2011)

In addition to review of the above data sources, specimens of *M. williamsii* held at the Queensland Herbarium were examined by SKM ecologists to develop familiarity with the species' characteristics and to note habitat information recorded on the specimen labels.

2.1.3 Endangered and Of Concern Vegetation

RE and high value regrowth (HVR) vegetation mapping were reviewed to determine the extent and location of endangered and of concern vegetation that would be impacted by the Project. This mapping was reviewed to assist planning survey sites and to quantify downstream impacts.

2.1.4 Site Selection

Survey sites were selected based on meeting the three major objectives of the survey. Survey sites included:



- 100 sites in remnant and HVR vegetation that contain regional ecosystems that are listed as potentially containing Box-Gum Grassy Woodland (98 sites within the Stanthorpe Plateau sub-bioregion and two sites within the adjacent Nandewar Northern sub-bioregion).
- 30 sites within habitat suitable for *M. williamsii*, based on vegetation mapping and known habitat characteristics.
- 28 BioCondition sites covering each endangered or of concern RE impacted by the Project as well as REs that provide habitat for threatened species.

A total of 123 sites were selected at which different combinations of the above objectives were completed. Methods are described in **Section 2.2.2** below.

2.2 Field Surveys

2.2.1 Scientific License

The field survey was undertaken in accordance with SKM's Scientific Purposes Permit number WISP10848512 issued by the Department of Environment and Heritage Protection (DEHP) under *S12(E)* Nature Conservation (Administration) Regulation 2006, valid from 1 March 2012 to 28 February 2017.

2.2.2 Methodology

Field methods are described briefly below.

Box-Gum Grassy Woodland Assessment

The listing advice for this community (TSSC, 2006) provides condition criteria to assess Box-Gum Grassy Woodland vegetation. A flowchart (DEH, 2006) based on these criteria was used to assess patches of remnant and regrowth vegetation in the field. The flowchart uses characteristics such as overstorey species, proportion of native understorey, patch size and evidence of recruitment to determine if the vegetation is the listed ecological community. **Figure 2-1** below shows the flowchart used in the field.



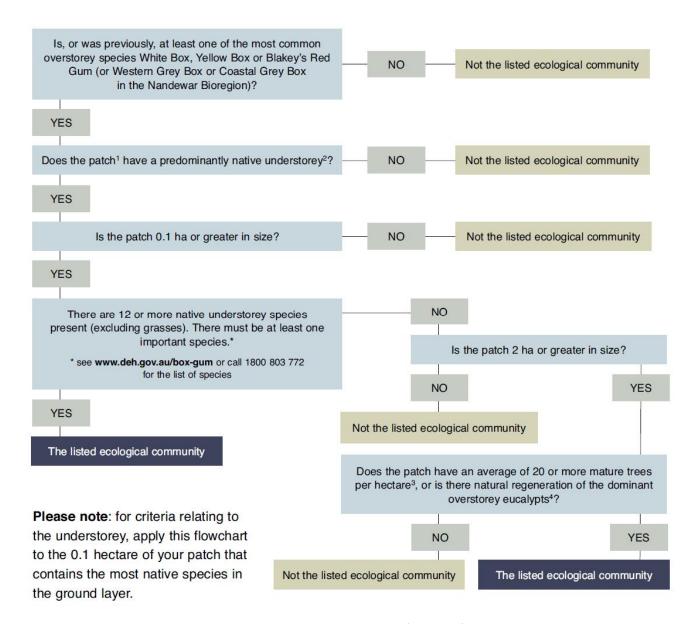


Figure 2-1: Box-Gum Grassy Woodland and Derived Grassland flow chart (DEH, 2006)

Melaleuca williamsii

Random meanders were undertaken at each survey site. This involved searching suitable habitat for a minimum of 30 minutes on foot by two ecologists.

BioCondition

BioCondition sites were surveyed in accordance with the BioCondition assessment manual Version 2.1 (Eyre et al., 2011a).

Field surveys were undertaken during winter over a three week period from 1 to 19 July 2013.



2.2.3 Field survey 1 (July 2013)

Field surveys were undertaken during winter over a three week period from 1 to 19 July 2013. This survey was undertaken between 1-5, 8-12 and 15-19 July 2013.

Access to survey sites was not possible in some instances where land holders did not give permission to enter properties. Where land access was not provided effort was made to find alternative sites. A total of 81 Box-Gum Grassy Woodland sites, 25 *M. williamsii* random meanders and 26 BioCondition sites were completed.

2.2.4 Field survey 2 (November 2013)

An additional survey for *M. williamsii* was undertaken between 28-30 October 2013 during the flowering period to confirm the identification of *M. williamsii* at existing sites, and to identify additional sites that provide suitable habitat for *M. williamsii* as potential translocation sites. Random meander searches were undertaken at five survey sites, involving searching suitable habitat for a minimum of 30 minutes on foot by two ecologists. Flowering samples of *M. williamsii* from the survey sites were sent to the Queensland Herbarium to confirm identification. Two BioCondition sites were also completed.

2.2.5 Field Survey 3 (January 2014)

An additional survey for potential Box-Gum Grassy Woodland offset sites was undertaken from 29-31 January 2013. The purpose of this survey was to investigate additional sites that could be used as offsets for Box-Gum Woodlands disturbed by the Project. During field survey 3, 19 sites were visited (13 in the Stanthorpe Plateau sub-bioregion and six in the Nandewar Northern sub-bioregion) and surveyed against the Box-Gum Grassy Woodland condition criteria, as described in **Section 2.2.2**.



3. Desktop Results

3.1 Box-Gum Grassy Woodland

The terrestrial flora mapping prepared for the Project EIS (3D Environmental, 2007) shows 71.55 ha of Box-Gum Grassy Woodland would be directly inundated in the water storage area with an additional impact of 11.47 ha along the urban and irrigation pipelines and 0.74 ha along the Stalling Lane realignment.

Spatial analysis using DNRM remnant vegetation mapping indicated that there is 8,286 ha of vegetation in the Stanthorpe Plateau sub-bioregion that could potentially contain the Box-Gum Grassy Woodland community. This is the total area of mapped remnant vegetation containing:

- RE 13.3.1 Eucalyptus blakelyi woodland on alluvial plains
- RE 13.3.4 Eucalyptus conica, E. microcarpa, E. melliodora woodland on alluvial plains
- RE 13.11.8 Eucalyptus melliodora and/or Eucalyptus microcarpa/ E. moluccana woodland on metamorphics
- RE 13.12.8 Eucalyptus melliodora and/or E. moluccana/ E. microcarpa and/or E. conica woodland on igneous rocks
- RE 13.12.9 Eucalyptus blakelyi and/or E. caliginosa woodland to open forest on igneous rocks

The same analysis was used to calculate that within 5 km of the FSL there are 1,853 ha of remnant vegetation that could potentially contain Box-Gum Grassy Woodland.

Downstream of the proposed dam to Accommodation Creek, the Department of Natural Resources and Mines (DNRM) RE mapping shows the Severn River is fringed by Endangered REs 13.3.1, 13.3.1x1, 13.12.8 and 13.12.9. Of these, REs 13.3.1, 13.12.8 and 13.12.9 may contain Box-Gum Grassy Woodland.



3.2 Melaleuca williamsii

The Emu Swamp EIS terrestrial flora surveys (3D Environmental, 2007) found seven *M. williamsii* in the FSL, four (4) in the Stalling Lane realignment, four (4) in the urban pipeline corridor and three (3) in the irrigation pipeline corridor. Other individuals were found outside the Project impact areas, including one next to Teale Road (10 km north of Stanthorpe), one (1) 80 m to the west off the New England Highway south of Booth Lane and two (2) approximately 100 m upstream of the FSL. Plants were found in remnant and non-remnant vegetation, including REs 13.3.1, 13.3.1x1, 13.12.8, 13.12.2 and 13.12.6.

Australia's Virtual Herbarium (AVH) lists 131 records for *M. williamsii* in the New England bioregion with a cluster of these records occurring in the Stanthorpe Plateau sub-bioregion. The AVH incorporates specimen records from Australia's major herbaria.

The REDD lists RE 13.3.1 as suitable habitat for *M. williamsii*. This RE is described as '*Eucalyptus blakelyi* grassy woodland or open-forest +/- *E. conica* +/- *E. bridgesiana* +/- *E. melliodora* on Cainozoic alluvial plains'.

The description of habitat of *M. williamsii* on specimens held by the Queensland Herbarium recorded the species growing in habitat characterised by rocky granite slabs and proximity to waterways. Soils included sandy and gravelly alluvium. Vegetation associated with *M. williamsii* was recorded as riparian woodlands and shrublands with *Leptospermum* and *Acacia* species.

Essential habitat factors for M. williamsii are described in the essential habitat database (DNRM, 2013) as:

- RE 12.12.14 or 13.3.1 (RE's are a mandatory essential habitat factor)
- Open forest of Corymbia gummifera and Eucalyptus umbra; riparian woodland/shrubland
- 300 to 800 m altitude
- Gravelly alluvium soils
- Rocky watercourse or river bank



4. Field Survey Results

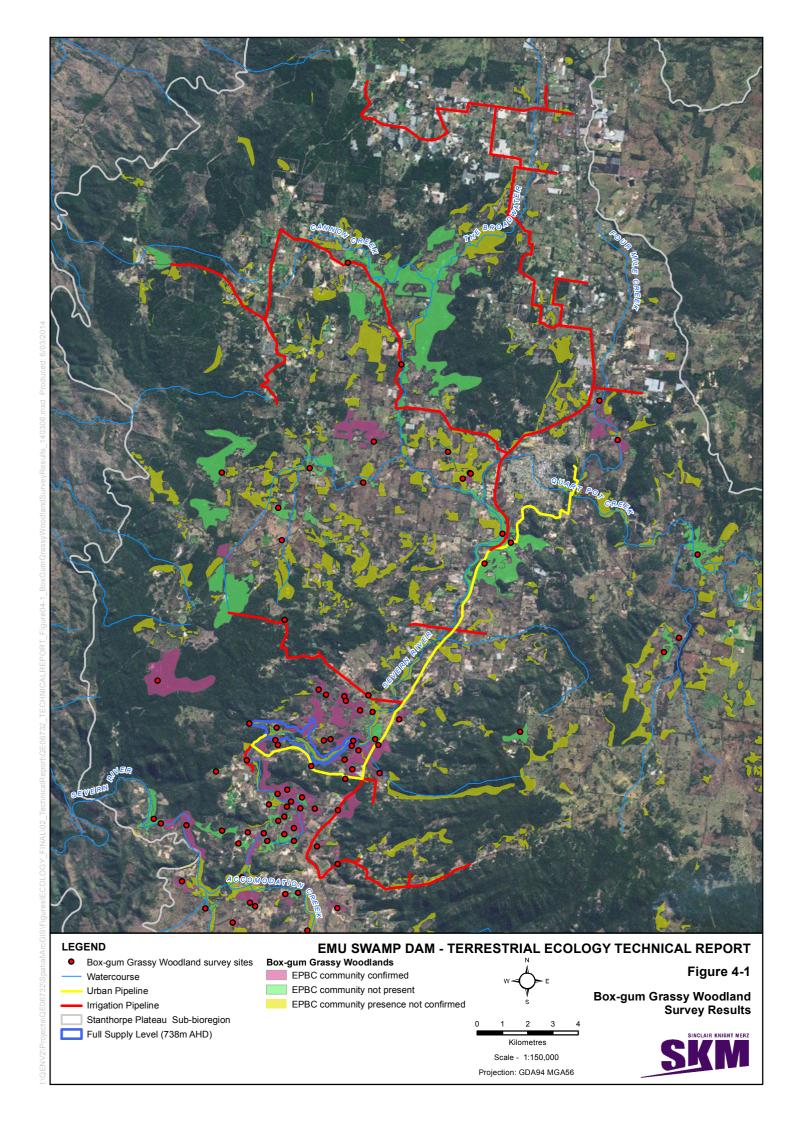
4.1 Box-Gum Grassy Woodland Critically Endangered Ecological Community

The Box-Gum Grassy Woodland community flow chart was used to identify if vegetation met the EPBC listing criteria at 100 individual sites (81 during field survey 1 and 19 during field survey 3) in the study area in both remnant and regrowth vegetation. Out of the 100 survey sites, 50 were found to contain vegetation that met the criteria for the EPBC listed community. **Appendix A** shows the results for each of the survey points. Much of the vegetation along the Severn River between the FSL and Accommodation Creek was found to contain the Box-Gum Grassy Woodland community. Some patches of vegetation were excluded from the community due to weed dominance in the ground cover, or due to absence of characteristic canopy species. Dominant canopy species in these instances included Rough Barked Apple (*Angophora floribunda*) and/or Apple Box (*E. bridgesiana*).

Patches identified as containing vegetation that fit the EPBC criteria are shown on **Figure 4-1**. The total area of vegetation ground-truthed was 5,100 ha. Approximately 2,225 ha of this vegetation contained the listed Box-Gum Grassy Woodland (44% of the vegetation surveyed). The area of ground-truthed vegetation occurs in both the Stanthorpe Plateau sub-bioregion (1,611 ha) and the Nandewar Northern Complex sub-bioregion (614 ha). Area calculations were based on the assumption that where field survey results indicated the listed community was present, the entire patch in which the survey point was located met the criteria. In instances where the field survey indicated different results in the same patch, the patch was split at an equal distance between the survey points. 3D Environmental vegetation mapping (3D Environmental, 2007) was used as a base map for areas within the FSL and pipelines. RE and HVR (DNRM, 2011) mapping were used as a base map for the areas outside the FSL and pipelines (**Figure 4-1**).

An additional 5,073 ha of remnant vegetation that could potentially contain the EPBC listed community within the Stanthorpe Plateau sub-bioregion is shown on **Figure 4-1**. This is remnant vegetation containing REs 13.3.1, 13.11.8, 13.12.8 and 13.12.9 that was not able to be ground truthed due to time constraints. Less than half (44%) of the vegetation surveyed contained the listed community. Conservatively assuming 40% of the potential Box-gum Grassy Woodland (2,672 ha) meets the EPBC criteria there is a further 2,029 ha of this community. It is estimated that approximately 3,640 ha of Box-gum Grassy Woodland is present [1,611 ha (confirmed) + 2,029 ha (potential)] in the in the Stanthorpe Plateau sub-bioregion.

Plate 4-1 shows vegetation identified during field surveys as containing the Box-Gum Grassy Woodland.





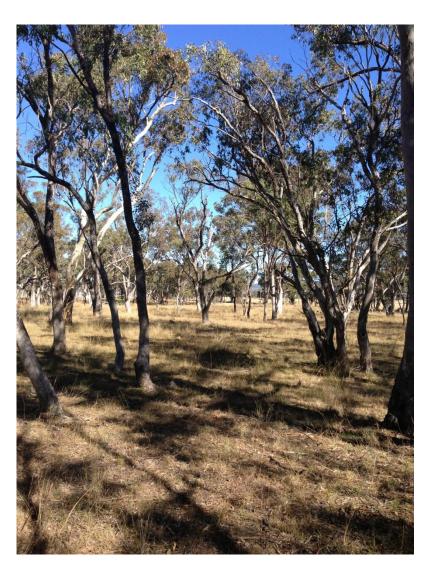


Plate 4-1: Box-Gum Grassy Woodland, dominated by Blakely's Red Gum (meets EPBC criteria)



4.2 Targeted Melaleuca williamsii surveys

Targeted searches for *M. williamsii* were undertaken along waterways and a collection of samples made within each patch of *M. williamsii*.

Melaleuca williamsii was identified in the field by SKM ecologists and samples taken in accordance with SKM's Scientific Purposes Permit. Plant samples collected in July were sent to a senior botanist in NSW (Tony Rodd) who identified the species as *M. williamsii* subsp. *fletcheri*. Flowering samples collected in October 2013 were sent to the Queensland Herbarium who also identified the species as *M. williamsii* subsp. *fletcheri*. The coordinates of *M. williamsii* records from these surveys are listed in **Appendix B**. A flowering specimen of *M. williamsii* found outside the Project impact area is shown in **Plate 4-2**.

SKM field survey 1 located a total of 287 *M. williamsii*, with multiple plants at each of the locations shown on **Figure 4-2**. 38 plants were recorded in the FSL, and 249 plants were found outside Project impact areas.

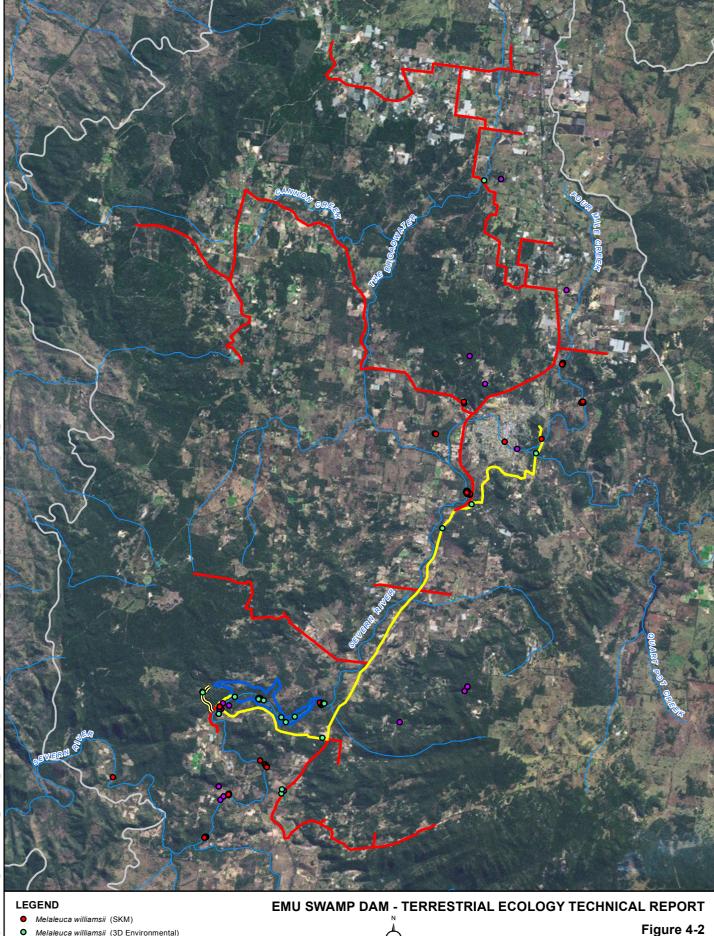
SKM field survey 2 recorded an additional 110 plants outside the Project impact areas. Five new locations were identified. Additional *M. williamsii* locations are shown on **Figure 4-2**.

Based on SKM and 3D Environmental survey data, a total of 56 *M. williamsii* are known to be located within Project impact areas (**Table 4-1**).

Table 4-1 Melaleuca williamsii locations

Location	Source	Number of <i>M. williamsii</i> plants
FSL	SKM	38
FSL	3D Environmental	7
Stalling Lane	3D Environmental	4
Urban pipeline	3D Environmental	4
Irrigation pipeline	3D Environmental	3
Total		56

Melaleuca williamsii was consistently found in association with granite slabs and boulders near water in REs 13.3.1, 13.3.1x1 and occasionally in RE 13.12.6.



- Melaleuca williamsii (3D Environmental)
- Melaleuca williamsii (database) (Atlas of Living Australia 2014)
- Urban Pipeline Irrigation Pipeline
- Stalling Lane Access
- Stanthorpe Plateau Sub-Bioregion
- Full Supply Level (738m AHD)



Melaleuca williamsii Database Records and Field Survey Results





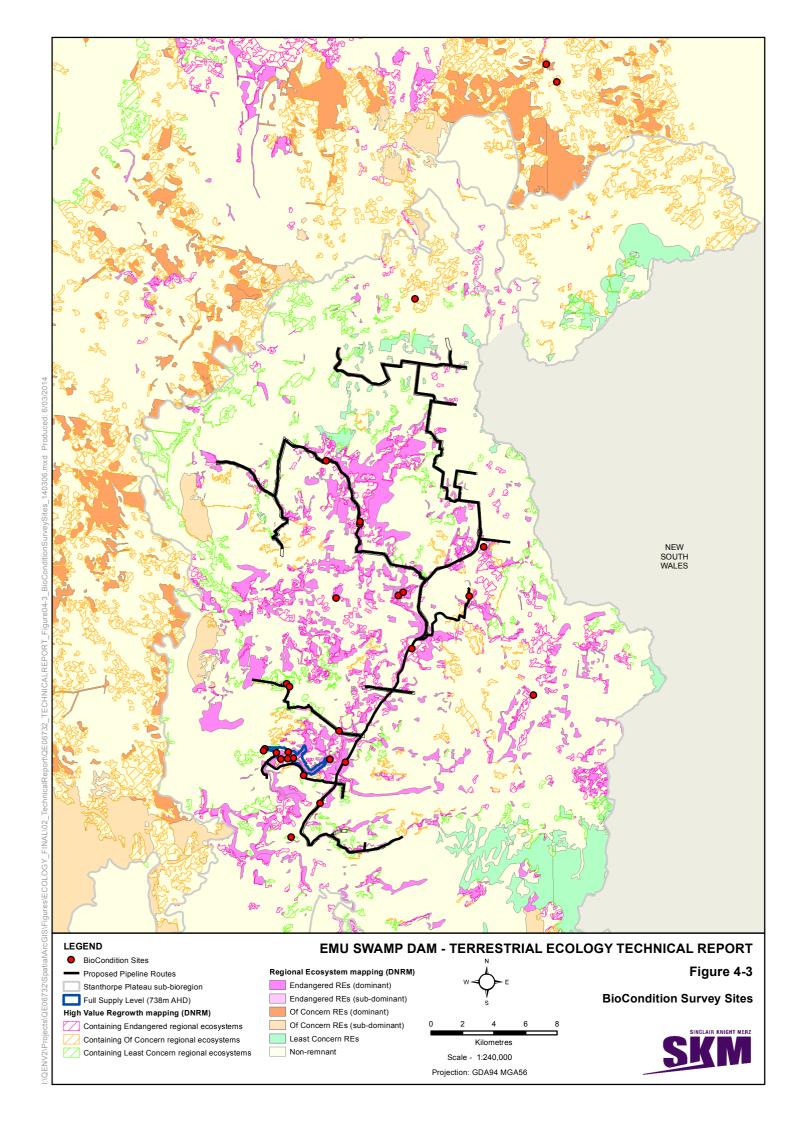




Plate 4-2 Melaleuca williamsii at Severn River off New England Highway, south of Stanthorpe

4.3 BioCondition survey

BioCondition surveys were undertaken at 28 sites, collecting condition data from the following impacted REs: 13.3.1, 13.11.8, 13.12.2, 13.12.5, 13.12.6, 13.12.8, and 13.12.9. **Figure 4-3** shows BioCondition survey locations. Site based BioCondition scores are summarised in **Appendix C**.





4.4 Weeds

Several invasive weeds species were recorded through the study area. The most extensive and widespread of these was African Lovegrass (*Eragrostis curvula*). The density of this species meant that several areas of vegetation that were predicted to contain Box-Gum Grassy Woodland community did not meet the listing criteria due to dominance of this weed in the ground cover.

Whisky Grass (*Andropogon virginicus*) was also extensive along roadsides and disturbed areas, although this species was less prolific in wooded areas.

Honeysuckle (*Lonicera japonica*) was observed along most waterways in varying density. This species occurred within the same habitat as *M. williamsii*.



5. Discussion

5.1 Box-Gum Grassy Woodland

Ground truthing of the Box-Gum Grassy Woodland community in the study area was completed over a period of three weeks of surveys in July 2013, three days in October 2013 and three days in January 2014.

Just under half (44%) of the vegetation that was surveyed contained the listed community. Conservatively, if it is assumed that 40% of the non-ground truthed vegetation in the study area (mapped as potentially containing the listed community) also supports vegetation that meets the EPBC criteria, then this means there is potentially 3,640 ha in the study area. Current estimates indicate that a total of 405,000 ha of the ecological community in various conditions remain (Australian Government, 2007). As such, the extent of the community within the Stanthorpe Plateau sub-bioregion represents less than 1% of the total remaining extent of Box-Gum Grassy Woodland and the impacted area of 83.76 ha is approximately 2.3% of the community within the sub-bioregion.

The stretch of the Severn River from the FSL downstream to Accommodation Creek runs through vegetation that was identified by the desktop mapping review as containing REs that form part of the Box-Gum Grassy Woodland community. Field surveys confirmed that approximately 6.6 km of the Severn River runs through the listed community.

Field observations indicated that much of the native vegetation in the study area had been impacted by fires and as a result was dominated in areas by shrubby regenerating *Callitris* and *Leptospermum* species. Vegetation communities with a continuous shrub layer of more than 30% cover are excluded from the listed ecological community, as they are considered to be shrubby woodland and do not constitute Box-Gum Grassy Woodland (DEH 2006).

5.2 Melaleuca williamsii

Targeted searches for *M. williamsii* were undertaken within a sample of the potential habitat identified by desktop assessment of mapping and previous records. Based on field results, approximately 10% of the known occurrences of *M. williamsii* in the region are located within the proposed dam FSL.

Where this species occurs along the pipelines or Stalling Lane access, direct impacts to individual plants may be avoided by altering the alignment of the construction corridor.

5.3 BioCondition survey

BioCondition data was collected for all REs occurring within the FSL and pipeline corridors. These scores have been used to establish condition values for the EPBC offsets calculator.



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Appendix A. Box-Gum Woodland survey results

			I	1		I		l .	Native	I		1		<u> </u>	
		Project						Overstorey		Understorey	Patch > 2	Density /			
Site		Location	Veg.	RE	Zone	Lat.	Long.	species	layer	species	ha	-	Community	Dominant canopy species	
010713 - 1		Non-impact	Rem.	13.12.8/13.12.9	56	-28.763	151.857	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
010713 - 2		Pipeline	Rem.	13.12.9	56	-28.757	151.960		YES	N/A	YES	YES	YES	Eucalyptus melliodora	
020713-2	90		HVR	13.3.1	56	-28.747	151.815	NO NO	ILJ	14774	ILJ	TES	TES	Lucaryptus memouora	
020713-2		Non-impact	HVR	13.12.8/13.12.9	56	-28.753	151.845	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
020713-3	33	Non-impact	TIVIX	13.12.0/13.12.7	30	-20.733	131.043	TES	ILJ	IV/A	ILJ	TES	TES	Eucalyptus blakelyi and Eucalyptus	
020713-4	21	Non-impact	Rem.	13.12.8/13.12.9	56	20 752	151.848	YES	YES	N/A	YES	YES	YES	melliodora	
020713-4		Non-impact	Rem.	13.3.1	56	-28.773	151.836	NO NO	ILJ	IN/ A	ILJ	TES	TES	Eucalyptus bridgesiana	
020713-5		Non-impact	Rem.	13.3.1	56	-28.777	151.836	YES	YES	N/A	YES	YES	YES	Eucalyptus bhakelyi	
020713-0		Non-impact	HVR	13.12.8/13.12.9	56	-28.777	151.841	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi Eucalyptus blakelyi	
020713-7		Non-impact	HVR	13.12.8/13.12.9	56	-28.791	151.842	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
020713-0	32	Non-impact	TIVK	13.12.0/13.12.9	30	-20.791	131.042	TES	ILS	IV/A	ILS	TES	TLS	Eucalyptus blakelyi and Eucalyptus	
030713-1	2	Non-impact	HVR	11.3.1	56	-28.784	151.833	YES	YES	N/A	YES	YES	YES	melliodora	
030713-1	3	Non-impact	пик	11.3.1	30	-20.704	101.000	TES	TES	IV/A	IES	TES	TES	Eucalyptus blakelyi and Eucalyptus	
030713-3	4	Non impost	Dom	13.12.8/13.12.9	56	20.704	151.829	YES	YES	N/A	YES	YES	YES	melliodora	
030713-3		Non-impact Non-impact	Rem. HVR	13.12.8/13.12.9	56	-28.786	151.829	YES	NO NO	IV/A	TES	TES	TES	Eucalyptus blakelyi	
030713-4		Non-impact		13.12.8/13.12.9	56	-28.790	151.810		NO					Callitris sp.	
030713-14	14	Non-impact	Rem.	13.12.8/13.12.9	36	-28.790	151.810	NO						· · · · · · · · · · · · · · · · · · ·	
			_											Angophora floribunda , Callitris sp. and	
030713-5		Non-impact	Rem.	13.12.9/13.12.8	56		151.804	NO	\/E0		1/50	1150	V/50	Eucalyptus sp. (stringybark)	
030713-6		Non-impact	Rem.	13.3.1	56	-28.783	151.789	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
030713-7		Non-impact	HVR	13.3.1/13.3.4	56	-28.803	151.787	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
030713-8		Non-impact	Rem.	13.12.9/13.12.8	56	-28.818	151.808	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
030713-9	15	Non-impact	Rem.	13.12.9/13.12.8	56	-28.811	151.815	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
030713-10	17	Non-impact	HVR	13.12.9/13.12.8	56	-28.812	151.817	NO						Callitris sp. and Eucalyptus bridgesiana	
			_									1450	\		
030713-11		Non-impact	Rem.	13.12.9/13.12.8	56		151.829	YES	YES	N/A	YES	YES	YES	Eucalyptus albens and Eucalyptus blakelyi	
030713-12a		Non-impact	HVR	13.3.4/13.3.1	56	-28.807	151.834	NO						Eucalyptus conica	
030713-12		Non-impact	HVR	13.3.1	56		151.830	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
030713-13		Non-impact	Rem.	13.3.1	56	-28.775	151.832	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
040713-3		FSL	HVR	13.12.8/13.12.9	56	-28.762	151.840	NO						Angophora floribunda	
040713-4		Non-impact	Rem.	13.12.9/13.12.8	56	-28.770	151.830	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
040713-5	23	Non-impact	Rem.	13.12.8/13.12.9	56	-28.772	151.826	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
														Eucalyptus blakelyi and Eucalyptus	
040713-6		Non-impact	Rem.	13.12.8/13.12.9	56		151.854	YES	YES	N/A	YES	YES	YES	melliodora	
040713-7		Non-impact	Rem.	13.12.8/13.12.9	56		151.859	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
040713-8		Non-impact	3D	13.3.1	56	-28.760		YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
040713-8a		Non-impact	HVR	13.12.9/13.12.8	56	-28.776	151.823	YES	NO					Eucalyptus blakelyi	
040713-9		Non-impact	HVR	13.12.9/13.12.8	56	-28.782	151.827	NO						Callitris sp.	
040713-10	4	Non-impact	HVR	13.12.9/13.12.8	56	-28.780	151.829	NO						Angophora floribunda	

		1		ı				1	I	1	1	•		1	
									Native						
		Project							ground	,		Density /			
Site		Location	_	RE			Long.	species	layer	species	ha	regeneration	Community	Dominant canopy species	
050713-1		Non-impact	HVR	13.3.1	56	-28.789	151.833	YES	NO					Eucalyptus blakelyi	
050713-2		Pipeline	3D	13.12.8	56	-28.778	151.851	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
050713-3		Non-impact	HVR	13.12.8/13.12.9	56	-28.826	151.841	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
050713-4		Non-impact	HVR	13.12.9/13.12.8	56	-28.821	151.838	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
080713-1		Non-impact	Rem.	13.3.1	56	-28.786	151.821	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
080713-2		Non-impact		13.12.9/13.12.8	56	-28.813	151.797	NO						Eucalyptus conica	
080713-3		Non-impact		13.12.8/13.12.9	56	-28.754	151.827	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
080713-5		FSL	3D	13.12.9	56	-28.753	151.826	YES	YES	N/A	YES	YES	YES	Eucalyptus melliodora	
090713-1		Non-impact	Rem.	13.12.8/13.12.9	56	-28.765	151.868	YES	YES	N/A	YES	YES	YES	Eucalyptus melliodora	
090713-2	39	Non-impact	HVR	13.12.9/13.12.8	56	-28.746	151.876	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
090713-3	41	Pipeline	3D	13.12.9	56	-28.737	151.864	YES	NO					Eucalyptus blakelyi	
090713-4	27	Non-impact	Rem.	13.12.8/13.12.9	56	-28.735	151.843	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
090713-5	54	Non-impact	HVR	13.12.8/13.12.9	56	-28.737	151.846		YES	N/A	YES	YES	YES	Eucalyptus melliodora	
090713-6	26	Non-impact	Rem.	13.12.8/13.12.9	56	-28.737	151.854	YES	YES	N/A	YES	YES	YES	Eucalyptus melliodora	
090713-7	20	Non-impact	Rem.	13.12.8/13.12.9	56	-28.739	151.855	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
090713-8	38	Non-impact	HVR	13.12.8/13.12.9	56	-28.742	151.860	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
090713-9	53	Non-impact	HVR	13.12.9/13.12.8	56	-28.743	151.865	NO						Angophora floribunda	
		•												Angophora floribunda and Eucalyptus sp.	
090713-11	80	FSL	3D	13.12.9	56	-28.748	151.826	NO						(stringybark)	
														Angophora floribunda and Eucalyptus sp.	
090713-12	28	Non-impact	Rem.	13.12.8/13.12.9	56	-28.753	151.866	NO						(stringybark)	
107013-1		Pipeline	3D	13.12.8	56	-28.767	151.854	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
100713-2		Non-impact		13.12.9/13.12.8	56							-		Angophora floribunda	
		1												Angophora floribunda and Eucalyptus sp.	
100713-3	18	Non-impact	HVR	13.3.4/13.3.1	56	-28.802	151.812	NO						(stringybark)	
100713-4		Non-impact	HVR	13.3.1	56	-28.782	151.779		NO					Eucalyptus blakelyi	
		'												Angophora floribunda and Eucalyptus	
100713-5	47	Non-impact	Rem.	13.3.1	56	-28.780	151.776	NO						bridgesiana 3,	
														Angophora floribunda and Eucalyptus sp.	
100713-6a	11	Non-impact	HVR	13.3.1	56	-28.789	151.822	NO						(stringybark)	
1007.10.00		puot				201707								(cum gyzanny	
														Angophora floribunda , Eucalyptus	
100713-6	60	Pipeline	3D	13.12.9	56	-28 683	151.922	NO						bridgesiana and Eucalyptus sp. (stringybark)	
100713 0	00	Преште	30	13.12.7	30	20.003	131.722	NO						bridgesiaria and Edealyptus sp. (Stringybark)	
														Angophora floribunda , Eucalyptus	
100713-7	71	Non-impact	Rem.	13.3.1	56	-28 455	151.841	NO						bridgesiana and Eucalyptus sp. (stringyba	
100713-7		Non-impact	Rem.	13.12.9/13.12.8	56	-28.646		YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi	
100713-7	12	rvori-irripact	NCIII.	13.12.7/13.12.0	30	-20.040	131.007	TLJ	ILJ	11/7	ILJ	ILS	ILJ	Angophora floribunda , Callitris sp. and	
100713-8	20	Non-impact	Rem.	13.12.9/13.12.8	56	20 457	151.805	NO						Eucalyptus sp. (stringybark)	
100/13-8	38	MOH-IMPact	ReIII.	13.12.7/13.12.8	36	-20.03/	101.805	NU	l		J.	<u> </u>		Lucaryptus sp. (stringybark)	

				ı				1	Motivo	ı		1	1	Т
		Drojost						O o mot o mo	Native	Understorey	Dotob 2	Domoitu /		
C!+-	E:-I-LID	Project	\	DE	7	1 -4	1	,	-	-		Density /	0 !4	Densing at a second second
Site		Location	,	RE		Lat.	Long.	species	layer	species	ha		_	Dominant canopy species
110713-1	44	Non-impact	HVR	13.12.9/13.12.8	56	-28.813	151.850	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi
110710 1	70			1001	-,	00 (00	454.040	NO						Angophora floribunda , Callitris sp. and
110713-4		Non-impact		13.3.1	56		151.919							Eucalyptus sp. (stringybark)
110713-6	107	Council Land	HVR	13.12.9/13.12.8	56	-28.717	151.990	NO						Eucalyptus sp. (stringybark)
110710 7	l ,,			10.10.0/10.10.0		00 700	454.004	NO						Eucalyptus bridgesiana and Eucalyptus sp.
110713-7		Non-impact	HVR	13.12.9/13.12.8	56		151.984		\/F0	21/2	\/F0	V/E0	VEO	(stringybark)
110713-8	5	Pipeline	3D	13.12.8	56	-28.797	151.850	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi
														Angophora floribunda and Eucalyptus sp.
110713-9		Non-impact	Rem.	13.12.8/13.12.9	56		151.925	NO						(stringybark)
150713-3	99	Council Land	HVR	13.12.9	56	-28.660	151.903	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi
														Eucalyptus melliodora and Eucalyptus
150713-1		Council Land	HVR	13.3.1	56	-28.646			YES	N/A	YES	YES	YES	blakelyi
150713-2		Council Land		13.3.1	56	-28.632	151.958	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi
150713-4		Non-impact		13.12.9/13.12.8	56		151.897	NO						Eucalyptus bridgesiana
160713-1		Council Land		13.3.1	56	-28.661	151.862	NO						Eucalyptus bridgesiana
160713-2		Non-impact	Rem.	13.12.9/13.12.8	56	-28.681	151.829	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi
160713-3		Non-impact	Rem.	13.12.9/13.12.8	56	-28.731	151.778	YES	YES	N/A	YES	YES	YES	Eucalyptus blakelyi
160713-4		Non-impact	HVR	13.3.1	56	-28.669	151.828	NO						Eucalyptus microcarpa
160713-5	71	Pipeline	HVR	13.3.1	56	-28.619	151.878	NO						Pinus radiata
														Eucalyptus bridgesiana and Eucalyptus sp.
160713-6		Non-impact	HVR	13.3.1/13.3.4	56		151.998							(stringybark)
160713-7	67	Non-impact	HVR	13.12.8/13.12.9	56	-28.697	152.044	YES	NO					Eucalyptus blakelyi
														Angophora floribunda , Eucalyptus conica
170713-1		Pipeline	3D	13.12.9	56		151.911	NO						and Eucalyptus sp. (stringybark)
180713-3	FID I	Pipeline	HVR	13.12.8	56	-28.582	151.857	YES	NO					Eucalyptus blakelyi
180713-4	12	FSL	3D	13.3.1	56	-28.753	151.857	YES	NO					Eucalyptus blakelyi
190713-1	85	Pipeline	3D	13.12.9	56	-28.710	151.830	YES	YES	N/A	YES	YES	YES	Eucalyptus albens and Eucalyptus blakelyi
														Eucalyptus melliodora and E. moluccana
														(Nandewar BioRegion). NOTE: unsure of
310114-2	A-0	Non-impact	Rem.	13.11.8/13.11.3	56	-28.644	151.617	YES	YES	N/A	YES	YES	YES	native understorey, also grazed.
		•												·
														Eucalyptus melliodora , E. blakelyi and E.
														microcarpa (Nandewar BioRegion). NOTE:
														unsure of native understorey - probably
310114-3	A-4	Non-impact	Rem.	13.11.8/13.11.3	56	-28.671	151.594	YES	YES	N/A	YES	YES	YES	some Whiskey Grass also grazed.
310114-4	A-5	Non-impact	HVR		56	-28.675	151.581	YES	YES	n/a	YES	YES	YES	Eucalyptus blakelyi
290114-3		Non-impact	Rem.	13.12.9/13.12.8	56		151.806		YES	N/A	YES	YES	YES	Eucalyptus blakelyi

									Native					
		Project						Overstorey	ground	Understorey	Patch > 2	Density /		
Site	Field ID		Veg.	RE	Zone	Lat.	Long.	species	-	species	ha	regeneration	Community	Dominant canopy species
290114-4	B-8	Non-impact	Rem.	13.12.9/13.12.8	56	-28.691	151.804	NO					NO	Eucalyptus caliginosa
290114-5	Extra	Non-impact	Rem.	13.12.9/13.12.8	56	-28.674	151.841	NO					NO	Eucalyptus caliginosa and E. bridgesiana
310114-1	B-7	Non-impact	Rem.	13.12.9/13.12.8	56	-28.673	151.800	NO					NO	Stringybark and <i>Callitris</i> sp.
300114-4		Non-impact			56		151.877						NO	Eucalyptus bridgesiana
300114-5		Non-impact	Rem.	13.12.9/13.12.8	56	-28.583		NO					NO	Eucalyptus bridgesiana
300114-6	C-12	Non-impact	Rem.	13.12.9/13.12.8	56		151.887	NO					NO	Stringybark
310114-5	C-13	Non-impact	Rem.	13.12.9/13.12.8	56	-28.572							NO	Callitris sp.
310114-6	C-11	Non-impact	Rem.	13.12.9/13.12.8	56	-28.587	151.886	NO					NO	Stringybark
														Eucalyptus blakelyi and E. moluccana (Nandewar BioRegion). NOTE: unsure of native understorey - lots of African Lovegrass
300114-1		Non-impact	N/Rem.		56		151.846		YES	N/A	YES	YES	YES	by the road, also grazed.
300114-2	D-15	Non-impact	Rem.	13.11.8/13.11.3	56	-28.491	151.798	NO					NO	Eucalyptus crebra
														Eucalyptus moluccana and E. blakelyi
300114-3		Non-impact	N/Rem.		56		151.798		YES	N/A	YES	YES	YES	(Nandewar BioRegion)
290114-1		Non-impact	Rem.	13.12.9/13.12.8	56		151.920						NO	Eucalyptus bridgesiana
290114-2	G-Extra	Non-impact	Rem.	13.12.9/13.12.8	56		151.925	NO					NO	Eucalyptus caliginosa
310114-9		Non-impact	HVR		56		151.781	NO					NO	Callitris sp.
310114-10		Non-impact	Rem.	13.12.9/13.12.8	56		151.778						NO	Callitris sp. and Pinus sp.
310114-7		Non-impact			56		151.464						NO	Ironbark
310114-8	G. Dam	Non-impact			56	-28.977	151.468	NO					NO	Ironbark and <i>Callitris</i> sp.



Appendix B. Confirmed *Melaleuca williamsii* location data

M williamsii	outside FSL (9	SKM, July 2013)	M williamsii	outside FSL (SI	(M. Oct 2013)	M. williamsii ii	nside FSL (SK	M July 2013
Longitude	Latitude	Number of	Longitude	Latitude	Number of	Longitude	Latitude	Number of
Longitude	Latitude	plants	Longitude	Latitude	plants	Longitude	Latitude	plants
151.8106	-28.8016	1	151.918561	-28.679394	25	151.8331	-28.7519	1
151.8107	-28.8014	i	151.91749	-28.64643	50	151.8331	-28.7520	1
151.8108	-28.8015	1	151.919533	-28.679702	20	151.8331	-28.7520	1
151.8108	-28.8015	1	151.919538	-28.679378	3	151.8331	-28.7520	1
151.8108	-28.8014	3	151.933867	-28.660842	7	151.8332	-28.7518	1
151.8109	-28.8015	2	151.835405	-28.775587	4	151.8332	-28.7520	1
151.8109	-28.8015	1	151.83578	-28.776292	1	151.8332	-28.7519	1
151.8110	-28.8014	3	TOTAL	20.770272	110	151.8332	-28.7520	1
151.8111	-28.8014	1				151.8332	-28.7517	1
151.8111	-28.8014	1				151.8333	-28.7519	1
151.8113	-28.8013	1				151.8334	-28.7521	1
151.8114	-28.8013	1				151.8335	-28.7521	1
151.8205	-28.7865	27				151.8335	-28.7521	1
151.8205	-28.7862	3				151.8335	-28.7521	1
151.8206	-28.7864	1				151.8335	-28.7521	1
151.8206	-28.7864	1				151.8335	-28.7521	1
151.8207	-28.7860	1				151.8335	-28.7520	1
151.8207	-28.7861	1				151.8335	-28.7521	1
151.8359	-28.7762	1				151.8335	-28.7521	1
151.8359	-28.7762	1				151.8336	-28.7522	1
151.8360	-28.7763	1				151.8336	-28.7522	1
151.8360	-28.7763	1				151.8336	-28.7519	1
151.8360	-28.7763	1				151.8336	-28.7523	1
151.8360	-28.7763	1				151.8336	-28.7522	1
151.8361	-28.7764	1				151.8336	-28.7523	1
151.8361	-28.7763	1				151.8336	-28.7520	1
151.8361	-28.7763	1				151.8336	-28.7522	1
151.8362	-28.7764	1				151.8336	-28.7522	1
151.8363	-28.7767	1				151.8337	-28.7522	1
151.8580	-28.7537	3				151.8338	-28.7522	1
151.8581	-28.7539	1				151.8338	-28.7522	1
151.8581	-28.7538	2				151.8338	-28.7521	1
151.8582	-28.7539	2				151.8338	-28.7521	1
151.8582	-28.7539	2				151.8338	-28.7523	1
151.8582	-28.7539	3				151.8338	-28.7521	1
151.8583	-28.7537	1				151.8338	-28.7519	1
151.8583	-28.7540	3				151.8339	-28.7521	1
151.8583	-28.7540	2				151.8339	-28.7521	1
151.8583	-28.7536	1						38
151.8583	-28.7540	2						
151.8583	-28.7539	2						
151.8583	-28.7541	3						
151.8583	-28.7537	1						
151.8583	-28.7539	1						
151.8583	-28.7541	2						
151.8583	-28.7537	1						
151.8583	-28.7541	2						
151.8583	-28.7540	2						
151.8584	-28.7542	2						
151.8584	-28.7541	1						
151.8584	-28.7541	1						
151.8584	-28.7542	1						
151.8584	-28.7542	1						
151.8584	-28.7542	3						
151.8584	-28.7543	1						
151.8584	-28.7543	1						
151 9595	20 75/2	E						

151.8585 151.8585 151.8585

151.8585

151.8585

151.8585

151.8585

151.8586

-28.7543

-28.7542 -28.7543

-28.7542

-28.7543

-28.7542

-28.7544

-28.7544

151.8586	-28.7541	2
151.8586	-28.7542	5
151.8587	-28.7541	2
151.8588	-28.7542	2
151.8588	-28.7543	2
		1
151.8588	-28.7542	
151.8588	-28.7543	4
151.9181	-28.6787	1
151.9181	-28.6787	6
151.9181	-28.6788	3
151.9183	-28.6783	2
151.9183	-28.6789	1
151.9184	-28.6788	2
151.9185	-28.6790	1
151.9185	-28.6788	1
151.9185	-28.6793	1
151.9185	-28.6788	2
151.9185	-28.6791	1
151.9185	-28.6788	2
151.9185	-28.6791	1
151.9185	-28.6794	2
151.9185	-28.6788	1
		1
151.9186	-28.6789	
151.9186	-28.6787	4
151.9487	-28.6600	1
151.9574	-28.6333	4
151.9574	-28.6332	7
151.9576	-28.6329	1
151.9577	-28.6328	1
151.9577	-28.6328	1
151.9577	-28.6328	2
151.9650	-28.6471	3
151.9652	-28.6469	1
151.9652	-28.6469	1
151.9652	-28.6469	15
151.9653	-28.6469	3
151.9653	-28.6469	10
151.9653	-28.6469	4
151.9653	-28.6469	1
151.9653	-28.6470	6
151.9653	-28.6469	3
151.9654	-28.6469	4
151.9656	-28.6467	1
151.9657	-28.6472	1
151.9658	-28.6471	1
TOTAL		251



Appendix C. Site based BioCondition data scores

Site number: 010713 - 2 (FID 1)	Benchmark (13.12.9)		BioCondition Plot		Lat28.755	Long. 151.867
Attribute	Threshold	Weighting (%)	Value		Sub-score	Score
Large trees			no. Euc.	6		
Eucalypts	43 cm (DBH)		no. non-Euc.	0		
	45 /hectare					
Non-eucalypts	n/a		% of benchmark	26.7	5	5
<u></u>	n/a					
Tree canopy height (m)		5				
Canopy	22 m (canopy)		canopy (m)	17.5		
	, , , , , , ,		% of benchmark	79.5	5	5
Sub-canopy	n/a		sub-canopy (m)	n/a		
			% of benchmark	n/a		
Recruitment of canopy species (%)	100 %	5	% recruitment	100		
., ,			% of benchmark	100		5
Tree canopy cover (%)						
Canopy	60 %	5	% canopy cover	60.5		
			% of benchmark	100.8	5	5
Sub-canopy	n/a		% subcanopy cover	n/a		
.,			% of benchmark	n/a		
Shrub cover (%)	34 %	5	% shrub cover	5		
, ,			% of benchmark	14.7	3	3
Coarse woody debris (m/ha)	491 m/ha	5	m cwd	625		
, , ,			% of benchmark	127.3	5	5
Native plant spp. richness		20				
Trees	4 spp.		no. tree spp.	7		
			% of benchmark	175.0	5	
Shrubs	8 spp.		no. shrub spp.	7		
			% of benchmark	87.5	2.5	
Grass	9 spp.		no. grass spp.	12		
			% of benchmark	133.3	5	
Other/forbs	21 spp.		no. other/forb spp.	16		
			% of benchmark	76.2	2.5	15
Non-native plant cover (%)	0	10	% non-native plant cover	1	10	
Native perennial grass cover (%)	15 %		% native grass cover	30		
,			% of benchmark	200.0		5
Organic litter cover (%)	79 %	5	% organic litter cover	33		
, ,			% of benchmark	41.8		3
Landscape context (fragmented)						
Patch size		10				
Context		5				
Connectivity		5				
Total Score	•	100			-	61
BioCondition Class			-			

Site number: 020713 - 2 (FID 90)	No benchmark 13.3.	1 (full scores have been	BioCondition Plot	l ot	-28.747	Long 151 915
Site number: 020713 - 2 (FID 90)	applied ex. Recruitm	nent and non-native cover)	BioCondition Plot	Lat.	-20.747	Long. 151.815
Attribute	Threshold	Weighting (%)	Value		-score	Score
Large trees		1:	5 no. Euc.	22		
Eucalypts	n/a		no. non-Euc.	4		
	n/a					
Non-eucalypts	n/a		% of benchmark	n/a	15	15
	n/a					
Tree canopy height (m)			5			
Canopy	n/a		canopy (m)	22		
.,			% of benchmark	n/a	2.5	5
Sub-canopy	n/a		sub-canopy (m)	3		
			% of benchmark	n/a	2.5	
Recruitment of canopy species (%)	100 %		5 % recruitment	100		
, , , , , , , , , , , , , , , , , , ,	133 /3		% of benchmark	100	5	5
Tree canopy cover (%)			70 01 20110111110111			
Canopy	n/a		5 % canopy cover	59		
Campy	11/4		% of benchmark	n/a	5	5
Sub-canopy	n/a		% subcanopy cover	5.5	O	· ·
oub-canopy	11/4		% of benchmark	n/a		
Shrub cover (%)	n/a		5 % shrub cover	25		
Siliub cover (70)	11/4		% of benchmark	n/a	5	5
Coarse woody debris (m/ha)	n/a		5 m cwd / ha	505	<u> </u>	
Coarse woody debris (III/IIa)	11/4		% of benchmark	n/a	5	5
Native plant spp. richness		2		11/a	<u> </u>	3
Trees	n/a	21	no. tree spp.	6		
11663	11/4		% of benchmark	n/a	5	
Shrubs	n/a		no. shrub spp.	13	3	
Siliubs	11/a		% of benchmark	n/a	E	
Cross	n/a			10	3	
Grass	n/a		no. grass spp. % of benchmark	-	_	
Other/forbs	- /-			n/a	Э	
Other/fords	n/a		no. other/forb spp.	19	_	20
Non-notive plant cover (0/)	0.0/		% of benchmark	n/a	<u>5</u> 10	20 10
Non-native plant cover (%)	0 %	70	0 % non-native plant cover	2.5	10	10
Native perennial grass cover (%)	n/a	•	5 % native grass cover	43	_	_
2 1144 (0/)			% of benchmark	n/a	5	5
Organic litter cover (%)	n/a	•	5 % organic litter cover	30	_	_
I and a consequent (for any control)			% of benchmark	n/a	5	5
Landscape context (fragmented)						
Patch size		10				
Context		,	5			
Connectivity			5			
Total Score		10	0			80
BioCondition Class						

Site number: 040713 - 3 (FID 89)	Benchmark (13.12.8)		BioCondition Plot		Lat28.762	Long. 151.840
Attribute	Threshold	Weighting (%)	Value		Sub-score	Score
Large trees		15	5 no. Euc.	1		
Eucalypts	43 cm (DBH)		no. non-Euc.	0	(
	43 /hectare					
Non-eucalypts	53 cm (DBH)		% of benchmark	4.7	5	5
	2 /hectare					
Tree canopy height (m)			5			
Canopy	19 m (canopy)		canopy (m)	14		
			% of benchmark	73.7	3	3
Sub-canopy	n/a		sub-canopy (m)	n/a	i	
			% of benchmark	n/a		
Recruitment of canopy species (%)	100 %	5	5 % recruitment	100		
			% of benchmark	100	5	5
Tree canopy cover (%)						
Canopy	50 %		5 % canopy cover	9.5		
.,			% of benchmark	19.0	2	2
Sub-canopy	n/a		% subcanopy cover	14.5		
			% of benchmark	n/a		
Shrub cover (%)	18 %		5 % shrub cover	6		
(1.7)			% of benchmark	33.3]	3
Coarse woody debris (m/ha)	491 m/ha		5 m cwd	470		
			% of benchmark	95.7		5
Native plant spp. richness		20				
Trees	3 spp.		no. tree spp.	3		
	''		% of benchmark	100.0	5	
Shrubs	4 spp.		no. shrub spp.	8	_	
	-11		% of benchmark	200.0	5	
Grass	12 spp.		no. grass spp.	10		
0.400			% of benchmark	83.3		
Other/forbs	23 spp.		no. other/forb spp.	17		
			% of benchmark	73.9		15
Non-native plant cover (%)	0	10	0 % non-native plant cover			
Native perennial grass cover (%)	15 %		5 % native grass cover	23		1
p	1	l `	% of benchmark	153.3		5
Organic litter cover (%)	83 %	!	5 % organic litter cover	34.2		1
g (70)	, , ,	l `	% of benchmark	41.2		3
Landscape context (fragmented)			,		Ĭ	†
Patch size		10	0			
Context			5			
Connectivity			5			
Total Score		100			1	56
BioCondition Class		1 100	<u> </u>			1
Jiooonianion olass						

Site number: 050713 - 2 (FID 45)	Benchmark (13.12.8)		BioCondition Plot		Lat28.778	Long. 151.851
Attribute	Threshold	Weighting (%)	Value		Sub-score	Score
Large trees		15	no. Euc.	4		
Eucalypts	43 cm (DBH)		no. non-Euc.	0		
	43 /hectare					
Non-eucalypts	53 cm (DBH)		% of benchmark	18.6	5	5
	2 /hectare					
Tree canopy height (m)			5			
Canopy	19 m (canopy)		canopy (m)	16		
			% of benchmark	84.2		5
Sub-canopy	n/a		sub-canopy (m)	n/a		
			% of benchmark	n/a		
Recruitment of canopy species (%)	100 %	5	5 % recruitment	100		
			% of benchmark	100	5	5
Tree canopy cover (%)						
Canopy	50 %	5	5 % canopy cover	61.0		
			% of benchmark	122.0	5	5
Sub-canopy	n/a		% subcanopy cover	3		
			% of benchmark	n/a		
Shrub cover (%)	18 %	5	% shrub cover	51		
			% of benchmark	280.6	3	3
Coarse woody debris (m/ha)	491 m/ha	5	m cwd	370		
			% of benchmark	75.4	5	5
Native plant spp. richness		20)			
Trees	3 spp.		no. tree spp.	4		
			% of benchmark	133.3	5	
Shrubs	4 spp.		no. shrub spp.	7		
			% of benchmark	175.0	5	
Grass	12 spp.		no. grass spp.	14		
			% of benchmark	116.7	5	
Other/forbs	23 spp.		no. other/forb spp.	10		
			% of benchmark	43.5		17.5
Non-native plant cover (%)	0		% non-native plant cover	2.5	10	10
Native perennial grass cover (%)	15 %	5	% native grass cover	20.2		
			% of benchmark	134.7	5	5
Organic litter cover (%)	83 %	5	5 % organic litter cover	55.4		
_ , ,			% of benchmark	66.7	5	5
Landscape context (fragmented)						
Patch size		10)			
Context			5			
Connectivity		5	5			
Total Score		100				65.5
BioCondition Class						

Site number: 090713 - 3 (FID 41)	Benchmark (13.12.9)		BioCondition Plot		Lat28.737	Long. 151.864
Attribute	Threshold	Weighting (%)	Value		Sub-score	Score
Large trees		15	5 no. Euc.	24		
Eucalypts	43 cm (DBH)		no. non-Euc.	0		
	45 /hectare					
Non-eucalypts	n/a		% of benchmark	106.7	15	15
	n/a					
Tree canopy height (m)			5			
Canopy	22 m (canopy)		canopy (m)	16		
			% of benchmark	72.7	3	3
Sub-canopy	n/a		sub-canopy (m)	n/a		
			% of benchmark	n/a		
Recruitment of canopy species (%)	100 %		5 % recruitment	0		
			% of benchmark	0	0	0
Tree canopy cover (%)						
Canopy	60 %		5 % canopy cover	58.0		
.,			% of benchmark	96.7	5	5
Sub-canopy	n/a		% subcanopy cover	0		
			% of benchmark	n/a		
Shrub cover (%)	34 %		5 % shrub cover	0		
			% of benchmark	0.0	0	l
Coarse woody debris (m/ha)	491 m/ha		5 m cwd	135		
Course in coup actions (in many	10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		% of benchmark	27.5		2
Native plant spp. richness		20				_
Trees	4 spp.		no. tree spp.	3		
			% of benchmark	75.0	2.5	
Shrubs	8 spp.		no. shrub spp.	1		
om abo	о орр.		% of benchmark	12.5	0	
Grass	9 spp.		no. grass spp.	4	I	
01433	о орр.		% of benchmark	44.4	2.5	
Other/forbs	21 spp.		no. other/forb spp.			
Other/fords	21 opp.		% of benchmark	28.6	2.5	7.5
Non-native plant cover (%)	0	11	0 % non-native plant cover			
Native perennial grass cover (%)	15 %		5 % native grass cover	12	, , ,	· ·
	10 /0	· ·	% of benchmark	80.0		3
Organic litter cover (%)	79 %		5 % organic litter cover	31		
	13 70	· · ·	% of benchmark	39.2		1
Landscape context (fragmented)			70 OI DOIIOIIIIIAIN	33.2	3	3
Patch size		10	2			
Context			5			
Connectivity			5			
Total Score		100				43.5
BioCondition Class		100	<u> </u>			43.0
DIOCOHUIUON CIASS						1

Age trees 43 cm (DBH) 45 hectare 45 hectare 45 hectare 45 hectare 46 hectare 46 hectare 46 hectare 46 hectare 47 hectare 47 hectare 48 hectare 49	Site number: 080713 - 5 (FID 91)	Benchmark (13.12.9)		BioCondition Plot		Lat28.753	Long. 151.826
Eucalypts	Attribute	Threshold				Sub-score	Score
Non-eucalypts	Large trees		15	no. Euc.	9		
Non-eucalypts	Eucalypts	43 cm (DBH)		no. non-Euc.	0		
Tree canopy height (m)		45 /hectare					
Canopy (m)	Non-eucalypts	n/a		% of benchmark	40.0	5	5
Canopy 22 m (canopy) Canopy (m) 20 5 6 6 6 6 6 6 6 6 6		n/a					
Sub-canopy N/a Sub-canopy Sub-canopy Sub-canopy Sub-canopy Sub-canopy Sub-canopy N/a Sub-canopy N/a Sub-canopy Sub-canopy N/a Sub-canopy N/a Sub-canopy N/a Sub-canopy N/a Sub-canopy N/a Sub-canopy Sub-canopy N/a Sub-canopy Sub-canopy N/a Sub-canopy Sub-canopy N/a Sub-canopy Sub-canopy Sub-canopy N/a Sub-canopy	Tree canopy height (m)		5	5			
Sub-canopy	Canopy	22 m (canopy)					
Secretarisment of canopy species (%) 100 % 5 8 6 6 6 6 6 6 6 6 6					90.9	5	5
Secretarisment of canopy species (%) 100 % 5 8 6 6 6 6 6 6 6 6 6	Sub-canopy	n/a		sub-canopy (m)	n/a		
Sub-canopy cover (%) Canopy 60 % 5 % canopy cover 61.0 % of benchmark 101.7 5 % canopy cover 61.0 % of benchmark 101.7 5 % canopy cover 61.0 % of benchmark 101.7 5 % canopy cover 23.5 % of benchmark 104.7 % subcanopy cover 8 % of benchmark 104.7 % subcanopy cover 8 % of benchmark 104.7 % of benchmark 104.7 % of benchmark 104.7 % of benchmark 104.7 % of benchmark 105.0 % of benchmark 105					n/a		
Solution	Recruitment of canopy species (%)	100 %	5	5 % recruitment	80		
Canopy				% of benchmark	80	5	1 5
Canopy	Tree canopy cover (%)						
Sub-canopy n/a % of benchmark 101.7 5		60 %	5	5 % canopy cover	61.0		
Sub-canopy n/a % subcanopy cover 23.5 % of benchmark n/a	.,				101.7	5	1 5
Shrub cover (%) 34 % 5 % shrub cover 8 8 9	Sub-canopy	n/a			23.5	_	
Shrub cover (%) 34 % 5					n/a		
% of benchmark 23.5 3 3 3 3 3 3 3 3 3	Shrub cover (%)	34 %					
Agriculty Agriculture Ag					23.5	3	3
Section Sect	Coarse woody debris (m/ha)	491 m/ha					
Shrubs S				% of benchmark			5
Trees	Native plant spp. richness		20				
Shrubs 8 spp. % of benchmark 125.0 5 no. shrub spp. 7 7		4 spp.		no. tree spp.	5		
Shrubs					125.0	5	
We of benchmark 87.5 2.5 13 14.4 5 14.4 14.4 5 14.4 1	Shrubs	8 spp.		no, shrub spp.	7	_	
Other/forbs 9 spp. no. grass spp. 13 % of benchmark 144.4 5 no. other/forb spp. 6 % of benchmark 28.6 2.5 Mon-native plant cover (%) 0 10 % non-native plant cover 1 10 Mon-native plant cover 51.6 % of benchmark 344.0 5 Months 6		- SPF.			87.5	2.5	
Other/forbs 21 spp. % of benchmark no. other/forb spp. 6 who of benchmark no. other/forb spp. 6 who for benchmark no. other spp. 6 who forb spp. 6 who fo	Grass	9 spp.					
Other/forbs 21 spp. no. other/forb spp. 6 % of benchmark 28.6 2.5 Non-native plant cover (%) 0 10 % non-native plant cover 1 10 Native perennial grass cover (%) 15 % 5 % native grass cover 51.6 5 Norganic litter cover (%) 79 % 5 % organic litter cover 27.4	5.455	- SPF-			_		
Solution	Other/forbs	21 spp.			6	Ĭ	
Independent cover (%)	0.1101/10120	spp.			28.6	2.5	15
Stative perennial grass cover (%)	Non-native plant cover (%)	0	10		1		
% of benchmark 344.0 5 Organic litter cover (%) 79 % 5 % organic litter cover 27.4 % of benchmark 34.7 3 Landscape context (fragmented)	Native perennial grass cover (%)				51.6		
Organic litter cover (%) 79 % 5 % organic litter cover 27.4 % of benchmark 34.7 3 Landscape context (fragmented) 10 Patch size 10 Context 5 Connectivity 5 Total Score 100		1.0 /0					1 5
% of benchmark 34.7 3	Organic litter cover (%)	79 %	,				<u> </u>
andscape context (fragmented) Patch size Context Connectivity 5 Total Score 10 10 10 10 100		1.0 /0					3
Patch size 10 Context 5 Connectivity 5 Total Score 100	Landscape context (fragmented)			,	<i> </i>	Ĭ	ľ
Context 5 Connectivity 5 Total Score 100			10	o			
Connectivity 5 5 5 6 7 100 7 1							
Total Score 100							
		I				l .	61
	BioCondition Class		100	<u> </u>			0

Attribute Large trees Eucalypts Non-eucalypts Free canopy height (m)	n/a n/a n/a n/a n/a n/a	Weighting (%)	15 r	Value no. Euc. no. non-Euc.	18 10	Sub-score	Score
Eucalypts Non-eucalypts	n/a n/a		15 r	no. Euc.	18		
Eucalypts Non-eucalypts	n/a n/a		ı				
Non-eucalypts	n/a n/a						
	n/a						
				% of benchmark	n/a	15	15
ree canopy height (m)	Tiva				1#u	10	
			5				
Canopy	n/a		_	canopy (m)	20		
Carlopy	11/4			% of benchmark	n/a	2.5	5
Sub-canopy	n/a			sub-canopy (m)	11/a Δ	2.3	1
Sub-canopy	11/a				n/a	2.5	
Donnitment of concern ancies (0/)	400.0/			% of benchmark	<i>n/a</i> 100	2.5	
Recruitment of canopy species (%)	100 %			% recruitment		-	_
F			Ŧ,	% of benchmark	100	5	5
Free canopy cover (%)	- /-		_	0/	00.0		
Canopy	n/a			% canopy cover	63.0	_	_
	,			% of benchmark	n/a	5	5
Sub-canopy	n/a			% subcanopy cover	22		
				% of benchmark	n/a		
Shrub cover (%)	n/a		-	% shrub cover	12		
				% of benchmark	n/a	5	5
Coarse woody debris (m/ha)	n/a			m cwd / ha	615		
				% of benchmark	n/a	5	5
Native plant spp. richness		2	20				
Trees	n/a			no. tree spp.	5		
			•	% of benchmark	n/a	5	
Shrubs	n/a		r	no. shrub spp.	13		
			C	% of benchmark	n/a	5	
Grass	n/a		r	no. grass spp.	13		
				% of benchmark	n/a	5	
Other/forbs	n/a		l,	no. other/forb spp.	18		
				% of benchmark	n/a	5	20
Non-native plant cover (%)	0 %	1		% non-native plant cover	1	10	
Native perennial grass cover (%)	n/a			% native grass cover	47	-	
g ()	1,4,2			% of benchmark	n/a	5	5
Organic litter cover (%)	n/a			% organic litter cover	37.2	,	
	1			% of benchmark	n/a	5	5
_andscape context (fragmented)					, u		İ
Patch size		1	10				
Context		1	5				
Connectivity			5				
Total Score	1	40	00				80
BioCondition Class		1 70	UU				80

0:	No benchmark 13.12	2.5 (full scores have been	1.	D: 0 !!! D! /			1 454 000	
Site number: 040713 - 2 (FID 94)	applied ex. Recruitm	ent and non-native cover)	ľ	BioCondition Plot		Lat28.752	Long. 151.830	
Attribute	Threshold	Weighting (%)	,	Value		Sub-score	Score	
Large trees				no. Euc.	14			
Eucalypts	n/a		l l	no. non-Euc.	4			
	n/a							
Non-eucalypts	n/a		ľ	% of benchmark	n/a	15	15	
	n/a							
Tree canopy height (m)			5					
Canopy	n/a		(canopy (m)	22			
			•	% of benchmark	n/a	2.5	5	
Sub-canopy	n/a			sub-canopy (m)	4			
			•	% of benchmark	n/a	2.5		
Recruitment of canopy species (%)	100 %		5 (% recruitment	75			
			(% of benchmark	75	3	3	
Tree canopy cover (%)								
Canopy	n/a		5	% canopy cover	56.5			
			(% of benchmark	n/a	5	5	
Sub-canopy	n/a		•	% subcanopy cover	10			
• •			•	% of benchmark	n/a			
Shrub cover (%)	n/a		5 (% shrub cover	3			
, ,			(% of benchmark	n/a	5	5	
Coarse woody debris (m/ha)	n/a		5 I	m cwd / ha	245			
, ,			(% of benchmark	n/a	5	5	
Native plant spp. richness		2	20					
Trees	n/a		- I	no. tree spp.	4			
			•	% of benchmark	n/a	5		
Shrubs	n/a		- I	no. shrub spp.	8			
			•	% of benchmark	n/a	5		
Grass	n/a		- I	no. grass spp.	8			
			(% of benchmark	n/a	5		
Other/forbs	n/a		- I	no. other/forb spp.	11			
				% of benchmark	n/a	5	20	
Non-native plant cover (%)	0 %		10	% non-native plant cover	15	5	5	
Native perennial grass cover (%)	n/a		5	% native grass cover	2.8			
				% of benchmark	n/a	5	5	
Organic litter cover (%)	n/a		5	% organic litter cover	73.6			
			(% of benchmark	n/a	5	5	
Landscape context (fragmented)								
Patch size			10					
Context			5					
Connectivity			5					
Total Score	-	10	00				73	
BioCondition Class			•					

Site number: 040713 - 1 (FID 82)		2.6 (full scores have been nent and non-native cover)	BioCondition Plot		Lat28.752	Long. 151.834
Attribute	Threshold	Weighting (%)	Value		Sub-score	Score
Large trees			15 no. Euc.	0		
Eucalypts	n/a		no. non-Euc.	3		
· ·	n/a					
Non-eucalypts	n/a		% of benchmark	n/a	15	15
31,	n/a					
Tree canopy height (m)			5			
Canopy	n/a		canopy (m)	12		
оштору	1.72		% of benchmark	n/a		5
Sub-canopy	n/a		sub-canopy (m)	4		
out outlopy	1,, 4		% of benchmark	n/a	2.5	;
Recruitment of canopy species (%)	100 %		5 % recruitment	100		
recording or carropy species (70)	100 70		% of benchmark	100		5
Tree canopy cover (%)			70 Of Belletimark	700		, <u> </u>
Canopy	n/a		5 % canopy cover	0		
Callopy	11/4		% of benchmark	n/a		
Sub-canopy	n/a		% subcanopy cover	17/A 0		1
Sub-carlopy	11/a		% of benchmark	n/a		
Shrub cover (%)	n/a		5 % shrub cover	22		
Siliub cover (%)	II/a		% of benchmark	n/a		_
Coarse was dy debrie (m/bs)	2/0		5 m cwd / ha	260		3
Coarse woody debris (m/ha)	n/a		% of benchmark	200 n/a		
Native plant can richness			20	TI/a	3) <u> </u>
Native plant spp. richness	n/a	'	-	2		
Trees	II/a		no. tree spp. % of benchmark	J /-		
Ob make a	- /-			n/a		
Shrubs	n/a		no. shrub spp.	13		
	,		% of benchmark	n/a		7
Grass	n/a		no. grass spp.	,6		
- · · · ·	,		% of benchmark	n/a		'
Other/forbs	n/a		no. other/forb spp.	19		
			% of benchmark	n/a		20
Non-native plant cover (%)	0 %		10 % non-native plant cov			10
Native perennial grass cover (%)	n/a		5 % native grass cover	2		_
			% of benchmark	n/a		5
Organic litter cover (%)	n/a		5 % organic litter cover	2.8		
			% of benchmark	n/a	5	5
Landscape context (fragmented)						
Patch size			10			
Context			5			
Connectivity			5			
Total Score		10	00			80
BioCondition Class						

Site number: 020713 - 1 (FID 92)		.2 (full scores have been ent and non-native cover)	E	BioCondition Plot		Lat28.749	Long. 151.823
Attribute	Threshold	Weighting (%)	١	/alue		Sub-score	Score
Large trees				no. Euc.	9		
Eucalypts	n/a			no. non-Euc.	3		
· ·	n/a						
Non-eucalypts	n/a		o,	% of benchmark	n/a	15	15
34	n/a					-	
Tree canopy height (m)			5				
Canopy	n/a			canopy (m)	18		
ошору	1,,0			% of benchmark	n/a		5
Sub-canopy	n/a			sub-canopy (m)	6	2.0	ı
oub ounopy	11/4			% of benchmark	n/a	2.5	
Recruitment of canopy species (%)	100 %			% recruitment	100		
recordition of carlopy species (70)	100 /0			% of benchmark	100	5	5
Tree canopy cover (%)			-+	70 OF BEHEIIITIAIR	100	<u></u>	
Canopy	n/a		5 0	% canopy cover	52		
Carlopy	11/4			% of benchmark	n/a	5	
Sub-canopy	n/a			% of benchmark % subcanopy cover	11/a 28	3	1
Sub-carlopy	II/a			% of benchmark	n/a		
Chrush agyar (9/)	n/a			% shrub cover	12.0		
Shrub cover (%)	n/a			% of benchmark		5	_
0	- /-			n cwd / ha	<i>n/a</i> 595	5	3
Coarse woody debris (m/ha)	n/a			% of benchmark		5	_
Native plant can pickuses			20	% Of Defictionalk	n/a	<u>ə</u>	3
Native plant spp. richness	n/a	4	-		2		
Trees	n/a			no. tree spp.	3	_	
	,			% of benchmark	n/a	5	
Shrubs	n/a			no. shrub spp.	10	_	
	,			% of benchmark	n/a	5	
Grass	n/a			no. grass spp.	10	_	
				% of benchmark	n/a	5	
Other/forbs	n/a			no. other/forb spp.	17		
				% of benchmark	n/a	5	20
Non-native plant cover (%)	0 %			% non-native plant cover	1	10	10
Native perennial grass cover (%)	n/a			% native grass cover	6		
				% of benchmark	n/a	5	5
Organic litter cover (%)	n/a			% organic litter cover	51		
			Q.	% of benchmark	n/a	5	5
Landscape context (fragmented)							
Patch size			10				
Context			5				
Connectivity			5				
Total Score		10	00				80
BioCondition Class							

Site number: 110713 - 2 (FID 105)		.5 (full scores have been ent and non-native cover)	E	BioCondition Plot		Lat28.797	Long. 151.832
Attribute	Threshold	Weighting (%)	١	/alue		Sub-score	Score
Large trees				no. Euc.	21		
Eucalypts	n/a			no. non-Euc.	6		
,	n/a						
Non-eucalypts	n/a		9	% of benchmark	n/a	15	15
3,1	n/a					_	
Tree canopy height (m)			5				
Canopy	n/a			canopy (m)	18		
эгру				% of benchmark	n/a		5
Sub-canopy	n/a			sub-canopy (m)	3	=.0	
	1., 0			% of benchmark	n/a	2.5	;
Recruitment of canopy species (%)	100 %			% recruitment	100		
recording or carropy species (70)	100 %			% of benchmark	100	5	5
Tree canopy cover (%)			ť	70 OI DETICITIAIN	100		, <u> </u>
Canopy	n/a		5 0	% canopy cover	70		
Canopy	11/4			% of benchmark	n/a	5	5
Sub-canopy	n/a			% subcanopy cover	26.5		1
Sub-carlopy	11/4			% of benchmark	n/a		
Shrub cover (%)	n/a			% shrub cover	20.5		
Siliub cover (70)	11/4			% of benchmark	n/a	5	
Coarse woody debris (m/ha)	n/a			m cwd / ha	520		3
Coarse woody debris (III/IIa)	11/4			% of benchmark	n/a	5	
Native plant spp. richness			20	70 OI BEHEIIIIAIR	11/a		3
Trees	n/a	'	-	no. tree spp.	5		
11663	11/4			% of benchmark	n/a	5	
Shrubs	n/a			no. shrub spp.	11/a	3	
Siliubs	11/a			% of benchmark	n/a	5	
Grass	n/a			no. grass spp.	11/a	3	
Glass	11/4			% of benchmark	n/a	_	
Other/forbs	n/a			no. other/forb spp.	11/a 14	3	'
Other/fords	II/a			% of benchmark		-	20
Non-native plant cover (%)	0 %				<i>n/a</i> 2.5	10	20
				% non-native plant cover	2.5	10	10
Native perennial grass cover (%)	n/a			% native grass cover	- /-	_	
Organia littor cover (0/)	-/-			% of benchmark	n/a	5	5
Organic litter cover (%)	n/a			% organic litter cover	26	_	
Landacana context (fragmented)			- 19	% of benchmark	n/a	5	5
Landscape context (fragmented)			10				
Patch size			10				
Context			5				
Connectivity			5				
Total Score			00				80
BioCondition Class							

Site number: 110713 - 3 (FID 96)		.2 (full scores have been	BioCondition Plot		Lat28.748	Long. 151.814	
		ent and non-native cover)			Ia .		
Attribute	Threshold	Weighting (%)	Value		Sub-score	Score	
Large trees	,		15 no. Euc	13			
Eucalypts	n/a		no. non-Euc.	12			
	n/a		% of benchmark	,			
Non-eucalypts	n/a		% of benchmark	n/a	15	15	
-	n/a						
Tree canopy height (m)	,		5	40			
Canopy	n/a		canopy (m)	12			
•	- 1-		% of benchmark	n/a	2.5	5	
Sub-canopy	n/a		sub-canopy (m)	3	0.5		
D ' (0/)	400.0/		% of benchmark	n/a	2.5		
Recruitment of canopy species (%)	100 %		5 % recruitment	100	_	_	
T			% of benchmark	100	5	5	
Tree canopy cover (%)	7/2		5 0/	20			
Canopy	n/a		5 % canopy cover % of benchmark	28	_	_	
Out	- /-			<i>n/a</i> 0	5	1 5	
Sub-canopy	n/a		% subcanopy cover	_			
01 1 (0/)			% of benchmark	n/a			
Shrub cover (%)	n/a		5 % shrub cover	3		_	
Coordo was dividabilis (m/lbs)	7/2		% of benchmark 5 m cwd / ha	n/a	5	3	
Coarse woody debris (m/ha)	n/a		% of benchmark	160	_	_	
Native plant spp. richness			20	n/a	5	3	
Trees	n/a	'		5			
riees	II/a		no. tree spp. % of benchmark	n/a	_		
Shrubs	n/a		no. shrub spp.	11/a 8	3	1	
Siliubs	II/a		% of benchmark	n/a	_		
Grass	n/a		no. grass spp.	11/a	3	1	
Glass	II/a		% of benchmark	n/o	_		
Other/forbs	n/a		no. other/forb spp.	<i>n/a</i> 20	3	1	
Other/fords	II/a		% of benchmark	n/a	5	20	
Non-native plant cover (%)	0 %		10 % non-native plant cover				
Native perennial grass cover (%)	n/a		5 % native grass cover	4.2		10	
italive perellillal grass cover (10)	11/4		% of benchmark	4.2 n/a	5	5	
Organic litter cover (%)	n/a		5 % organic litter cover	22.4	J	1	
Organic niter cover (70)	11/4		% of benchmark	22.4 n/a	5	5	
Landscape context (fragmented)			70 OI DONOITHAIN	ıı/a	3		
Patch size		,	10				
Context			5				
Connectivity			5				
Total Score	I	11	00		L	80	
BioCondition Class						1	

A	Site number: 110713 - 6 (FID 107)	Benchmark (13.12.9)		BioCondition Plot		Lat28.717	Long. 151.990
Eucalypts	Attribute	Threshold	Weighting (%)	Value		Sub-score	Score
45 /hectare 10 /hectare	Large trees			no. Euc.	8		
Non-eucalypts	Eucalypts	43 cm (DBH)		no. non-Euc.	0		
Na Na Sample		45 /hectare					
n/a	Non-eucalypts	n/a		% of benchmark	35.6	5	5
Canopy 22 m (canopy) canopy (m) 22 ye of benchmark 10.0 5 5 5 5 5 5 5 5 5	<u>"</u>	n/a					
Canopy 22 m (canopy) canopy (m) 22 ye of benchmark 10.0 5 5 5 5 5 5 5 5 5	Tree canopy height (m)		5	5			
Sub-canopy n/a Sub-canopy Sub-canopy n/a		22 m (canopy)		canopy (m)	22		
Sub-canopy		, , , , , ,			100.0	5	5
Secretiment of canopy species (%) 100 % 5 % recruitment 100 % of benchmark 100 % of	Sub-canopy	n/a		sub-canopy (m)	3		
Solution	.,			% of benchmark	n/a		
Sub-canopy cover (%) Canopy 60 % 5 6 60 % 70 60 % 70 70 70 70 70 70 70	Recruitment of canopy species (%)	100 %	5	% recruitment	100		
Tee canopy cover (%) Canopy 60 % 5 % canopy cover 43.5	., , ,			% of benchmark	100	5	5
Canopy Ca	Tree canopy cover (%)						
Sub-canopy n/a % of benchmark 72.5 5 5 5 5 5 5 5 5 5		60 %	5	% canopy cover	43.5		
Sub-canopy n/a % subcanopy cover 10.5 % of benchmark n/a 0 0 % of benchmark n/a 0 %	.,						5
Sort	Sub-canopy	n/a			10.5		
Shrub cover (%) 34 % 5 % shrub cover 26.5	1			% of benchmark	n/a		
% of benchmark 77.9 5 5 5 5 5 5 5 5 5	Shrub cover (%)	34 %	5				
Soarse woody debris (m/ha) 491 m/ha 5 m cwd / ha	(.,			% of benchmark			5
Some station of the plant spp. richness 20 10 10 10 10 10 10 10	Coarse woody debris (m/ha)	491 m/ha	5				
Trees	, ,			% of benchmark	0.0	0	o
Trees	Native plant spp. richness		20)			
Shrubs 8 spp. % of benchmark 75.0 2.5		4 spp.		no. tree spp.	3		
Shrubs				% of benchmark	75.0	2.5	
Sepand S	Shrubs	8 spp.		no. shrub spp.	3		
Other/forbs 9 spp. no. grass spp. 9 % of benchmark 100.0 5 100.0 5 100.0 10 100.0 10 100.0 10 1					37.5	2.5	
Other/forbs 21 spp. % of benchmark no. other/forb spp. 13 no. other/forb spp. 15 no. other/forb spp. 10 no. other/forb spp. <	Grass	9 spp.			9	_	
Other/forbs 21 spp. no. other/forb spp. % of benchmark 13 % of benchmark 2.5 12.5 Ion-native plant cover (%) 0 10 % non-native plant cover 2.5 10 10 Iative perennial grass cover (%) 15 % 5 % native grass cover 67 % of benchmark 446.7 5 5 Organic litter cover (%) 79 % 5 % organic litter cover 19.8 % of benchmark 25.1 3 3 andscape context (fragmented) % of benchmark 25.1 3 3 Patch size Context (context (cont					100.0	5	
Some context (fragmented)	Other/forbs	21 spp.		no, other/forb spp.			
Independent cover (%)		-11					12.5
Stative perennial grass cover (%)	Non-native plant cover (%)	0	10	% non-native plant cover			
% of benchmark 446.7 5 5 5 Organic litter cover (%) 79 % 5 % organic litter cover 19.8 % of benchmark 25.1 3 3 Condext 5 6 6 Connectivity 5 6 Context 5 6 Context 5 6 Connectivity 5 6 Context 5 6 Connectivity 5 6 Context 5 Context 5 Connectivity 5 Context 5 Context 5 Connectivity 5 Context 5 Context 5 Connectivity 5 Context 5		15 %					
Organic litter cover (%) 79 % 5 % organic litter cover 19.8 % of benchmark 3 Candscape context (fragmented) 3 3 Patch size 10 Context 5 Connectivity 5 5 Total Score 100 55.5					446.7	5	5
% of benchmark 25.1 3 3 3 3 3 3 3 3 3	Organic litter cover (%)	79 %	5				
andscape context (fragmented)	[,]						3
Patch size 10 Context 5 Connectivity 5 fotal Score 100	Landscape context (fragmented)						
Context 5 Connectivity 5 fotal Score 100 55.5			10)			
otal Score 100 55.5							
otal Score 100 55.5			5	5			
	Total Score	•	100	o i			55.5
	BioCondition Class		,	•			

Site number: 120713 - 1 (FID 98)		.2/13.12.6 (full scores have	BioCondition Plot	1	.at28.660	Long. 151.949
One number: 120713 - 1 (110 30)	been applied ex. Rec	ruitment and non-native cover)	Biocondition Flot	-	.at20.000	Long. 131.545
Attribute	Threshold	Weighting (%)	Value	S	Sub-score	Score
Large trees		15	no. Euc.	14		
Eucalypts	n/a		no. non-Euc.	10		
	n/a					
Non-eucalypts	n/a		% of benchmark	n/a	15	15
	n/a					
Tree canopy height (m)		5				
Canopy	n/a		canopy (m)	13		
• •			% of benchmark	n/a	2.5	5
Sub-canopy	n/a		sub-canopy (m)	3		
			% of benchmark	n/a	2.5	
Recruitment of canopy species (%)	100 %	5	% recruitment	75		
(···)	132 //	_	% of benchmark	75	3	3
Tree canopy cover (%)					-	
Canopy	n/a	5	% canopy cover	34		
Canopy	1.,.		% of benchmark	n/a	5	5
Sub-canopy	n/a		% subcanopy cover	28	•	Ĭ
oub ounopy	174		% of benchmark	n/a		
Shrub cover (%)	n/a	5	% shrub cover	30		
0111 db 00 vc1 (70)	11,4		% of benchmark	n/a	5	5
Coarse woody debris (m/ha)	n/a	5	m cwd / ha	135		- J
Course woody debris (minia)	11/4		% of benchmark	n/a	5	5
Native plant spp. richness		20		11/4		
Trees	n/a		no. tree spp.	6		
11003	11/4		% of benchmark	n/a	5	
Shrubs	n/a		no. shrub spp.	11/a	3	
Siliubs	II/a		% of benchmark	n/a	F	
Grass	n/a			II/a	ວ	
Grass	II/a		no. grass spp. % of benchmark	n/a	E	
Other/forbs	n/a			11/a 12	Э	
Other/fords	II/a		no. other/forb spp. % of benchmark	n/a	E	20
Non-native plant cover (%)	0 %	10		71/a 2.5	<u>5</u> 10	20 10
		10	% non-native plant cover		10	10
Native perennial grass cover (%)	n/a	٥	% native grass cover	9	_	_
0	- 1-		% of benchmark	n/a	5	5
Organic litter cover (%)	n/a	5	% organic litter cover	28.8	_	_
Landanana amtaut (fur			% of benchmark	n/a	5	5
Landscape context (fragmented)						
Patch size		10				
Context		5				
Connectivity		5				
Total Score		100	1			78
BioCondition Class						

Attribute	Site number: 150713 - 3 (FID 99)	Benchmark (13.12.9)		BioCondition Plot		Lat28.660	Long. 151.903
Eucalypts	Attribute	Threshold				Sub-score	Score
Non-eucalypts	Large trees		1:	5 no. Euc.	4		
Non-eucalypts	Eucalypts	43 cm (DBH)		no. non-Euc.	0		
Tree canopy height (m)		45 /hectare					
Tree canopy height (m) Canopy 22 m (canopy) 23 m (canopy) 24 m (canopy species (%) 25 m (canopy species (%) 26 m (canopy cover (%)) 27 m (canopy cover (%)) 28 m (canopy cover (%)) 28 m (canopy cover (%)) 29 m (canopy cover (%)) 29 m (canopy cover (%)) 29 m (canopy cover (%)) 20 m (canopy cover (%))	Non-eucalypts	n/a		% of benchmark	17.8	5	5
Canopy		n/a					
Sub-canopy n/a	Tree canopy height (m)			5			
Sub-canopy n/a Sub-canopy (m) n/a % of benchmark n/a /2 /2 /2 /2 /2 /2 /2	Canopy	22 m (canopy)					
Secretiment of canopy species (%) 100 % 5 % recruitment 100 5 6 februmant 100					54.5	3] 3
Secretiment of canopy species (%) 100 % 5 % recruitment 100 5 6 februmant 100	Sub-canopy	n/a		sub-canopy (m)	n/a		
Tree canopy cover (%) Canopy 60 % 5 % canopy cover 38.0 60 % 5 % canopy cover 38.0 % of benchmark 63.3 5					n/a		
Section Sect	Recruitment of canopy species (%)	100 %		5 % recruitment	100		
Canopy 60 % 5 % canopy cover 38.0 % of benchmark 63.3 5 % subcanopy cover n/a % of benchmark 63.3 5 % subcanopy cover n/a % of benchmark 129.4 5 % of benchmark 129.4 5 % of benchmark 11.2 2 % of benchmark 100.0 5 % of benchmark 50.0 2.5 % of benchmark 50.0 2.5 % of benchmark 11.1 5 % of benchmark 47.6 2.5 % of benchmark 47.6 2.5 % of benchmark 47.6 2.5 % of benchmark 140.0 5 % of benchmark 140.0	,			% of benchmark	100	5	1 5
Canopy 60 % 5 % canopy cover 38.0 % of benchmark 63.3 5 % subcanopy cover n/a % of benchmark 63.3 5 % subcanopy cover n/a % of benchmark 129.4 5 % of benchmark 129.4 5 % of benchmark 11.2 2 % of benchmark 100.0 5 % of benchmark 50.0 2.5 % of benchmark 50.0 2.5 % of benchmark 11.1 5 % of benchmark 47.6 2.5 % of benchmark 47.6 2.5 % of benchmark 47.6 2.5 % of benchmark 140.0 5 % of benchmark 140.0	Tree canopy cover (%)						
Sub-canopy Na		60 %		5 % canopy cover	38.0		
Sub-canopy	.,				63.3	5	5
Shrub cover (%) 34 % 5 % shrub cover 44.0	Sub-canopy	n/a		% subcanopy cover			
Shrub cover (%) 34 % 5 % shrub cover 44,0 % of benchmark 129,4 5					n/a		
Some second debris (m/ha) 491 m/ha 5 m cwd / ha 55 m c	Shrub cover (%)	34 %					
Mative plant spp. richness 20 7 79 % 5 7 70 70 70 70 70 70						5	5
Native plant spp. richness 20 7 rees 4 spp. 20 10 tree spp. 4 6 of benchmark 100.0 5 100 tree spp. 4 6 of benchmark 100.0 5 100 tree spp. 4 6 of benchmark 100.0 5 100 tree spp. 6 tree spp. 6 tree spp. 7 tree spp. 7 tree spp. 8 spp. 8 spp. 8 spp. 8 spp. 8 spp. 9 spp. 9 spp. 9 spp. 9 spp. 9 spp. 10 tree spp.	Coarse woody debris (m/ha)	491 m/ha				-	
Native plant spp. richness 4 spp. 20 no. tree spp. 4 % of benchmark 100.0 5 10 % of benchmark 140.0 5				% of benchmark			2
Trees	Native plant spp. richness		20)			
Shrubs 8 spp. % of benchmark 100.0 5 100.0		4 spp.		no. tree spp.	4		
Shrubs 8 spp. no. shrub spp. 4 % of benchmark 50.0 2.5 Grass 9 spp. no. grass spp. 10 % of benchmark 111.1 5 Other/forbs 21 spp. no. other/forb spp. 10 % of benchmark 47.6 2.5 Non-native plant cover (%) 0 10 % non-native plant cover 7.5 5 Native perennial grass cover (%) 15 % 5 % native grass cover 21 % of benchmark 140.0 5 Organic litter cover (%) 79 % 5 % organic litter cover 35 % of benchmark 44.3 3 Landscape context (fragmented) 9 do benchmark 10 % of benchmark 44.3 3 Context 10 Context 5 % organic litter cover 5 % of benchmark Connectivity 5 % organic litter cover 5 % of benchmark Total Score 100					100.0	5	
Section Sect	Shrubs	8 spp.		no. shrub spp.	4	-	
Other/forbs 9 spp. no. grass spp. 10 % of benchmark 111.1 5 no. other/forb spp. 10 % of benchmark 47.6 2.5		- SPF-			50.0	2.5	
Other/forbs 21 spp. % of benchmark no. other/forb spp. 111.1 no. other/forb spp. 5 no. other/forb spp. 10 no. other/forb spp.	Grass	9 spp.					
Other/forbs 21 spp. no. other/forb spp. % of benchmark 47.6 10 % of benchmark 47.6 2.5 Non-native plant cover (%) 0 10 % non-native plant cover 7.5 5 Native perennial grass cover (%) 15 % 5 % native grass cover 21 % of benchmark 140.0 5 Organic litter cover (%) 79 % 5 % organic litter cover 35 % of benchmark 44.3 3 Landscape context (fragmented) Patch size Context 5 Connectivity 10 Context 5 % Connectivity 5 % Organic litter cover 35 % of benchmark 5 % of benchmar	0.400				_		
Non-native plant cover (%) 0 10 % non-native plant cover 7.5 5	Other/forbs	21 spp.				-	
Non-native plant cover (%) 0 10 % non-native plant cover 7.5 5 Native perennial grass cover (%) 15 % 5 % native grass cover 21 6 7 <							15
Native perennial grass cover (%) 15 % 5 % native grass cover 21 % of benchmark 140.0 5 Organic litter cover (%) 79 % 5 % organic litter cover 35 % of benchmark 44.3 3 Landscape context (fragmented) Patch size Context 5 Connectivity Total Score 100 Total Score	Non-native plant cover (%)	0	10				
Some content Some							ľ
Organic litter cover (%) 79 % 5 % organic litter cover 35 % of benchmark 44.3 Landscape context (fragmented) Patch size Context Connectivity Total Score 79 % 5 % organic litter cover 35 % of benchmark 44.3 3 Total Score	p 3 g. 200 00.0. (/v/	,					5
% of benchmark	Organic litter cover (%)	79 %					
Landscape context (fragmented) Patch size Context Connectivity Total Score Patch size 10 5 5 10 10 10 10 10 10 10 10 10 10 10 10 10	2.3	, ,	ĺ				3
Patch size 10 Context 5 Connectivity 5 Total Score 100	Landscape context (fragmented)			, , , , , , , , , , , , , , , , , , , ,		i	ľ
Context 5 Connectivity 5 Total Score 100			11	2			
Connectivity 5 Total Score 100							
Total Score 100							
		I				I.	53
RioCondition Class	BioCondition Class		100	<u> </u>			30

Site number: 150713 - 2 (FID 97)		I (full scores have been	BioCondition Plot		Lat28.632	Long. 151.958	
		ent and non-native cover)	N 1		lo .		
Attribute	Threshold	Weighting (%)	Value 15 no. Euc.	20	Sub-score	Score	
Large trees	- /-			20			
Eucalypts	n/a		no. non-Euc.	13			
Non avechuste	n/a		% of benchmark	/-	45		
Non-eucalypts	n/a		% of benchmark	n/a	15	15	
Tree company beinght (m)	n/a		E				
Tree canopy height (m)	- /-		5	40			
Canopy	n/a		canopy (m)	12			
Out	- /-		% of benchmark	n/a	2.5	5	
Sub-canopy	n/a		sub-canopy (m)	4			
5 11 1 (01)	100.0/		% of benchmark	n/a	2.5		
Recruitment of canopy species (%)	100 %		5 % recruitment	100	_	_	
- (01)			% of benchmark	100	5	5	
Tree canopy cover (%)	,		- 0,	40			
Canopy	n/a		5 % canopy cover	12	_	_	
	,		% of benchmark	n/a	5	5	
Sub-canopy	n/a		% subcanopy cover	10			
			% of benchmark	n/a			
Shrub cover (%)	n/a		5 % shrub cover	13		_	
			% of benchmark	n/a	5	5	
Coarse woody debris (m/ha)	n/a		5 m cwd / ha	395		_	
			% of benchmark	n/a	5	5	
Native plant spp. richness		2	20				
Trees	n/a		no. tree spp.	5			
			% of benchmark	n/a	5		
Shrubs	n/a		no. shrub spp.	4			
			% of benchmark	n/a	5	i l	
Grass	n/a		no. grass spp.	6			
			% of benchmark	n/a	5		
Other/forbs	n/a		no. other/forb spp.	16			
			% of benchmark	n/a		20	
Non-native plant cover (%)	0 %	•	10 % non-native plant cover	2.5	10	10	
Native perennial grass cover (%)	n/a		5 % native grass cover	36			
			% of benchmark	n/a	5	5	
Organic litter cover (%)	n/a		5 % organic litter cover	24			
			% of benchmark	n/a	5	5	
Landscape context (fragmented)							
Patch size			10				
Context			5				
Connectivity			5				
Total Score		10	00			80	
BioCondition Class		·					

Site number: 160713 - 1 (FID 100)		1 (full scores have been nent and non-native cover)	E	BioCondition Plot		Lat28.661	Long. 151.862
Attribute	Threshold	Weighting (%)	_	/alue		Sub-score	Score
Large trees	Tim conciu			no. Euc.	19		000.0
Eucalypts	n/a			no. non-Euc.	0		
Zubulypto	n/a		- 1"	10. 11011 Euc.	Ü		
Non-eucalypts	n/a		9	% of benchmark	n/a	15	15
Non cadalypts	n/a				11/U	10	
Tree canopy height (m)	11/4		5				
Canopy	n/a		٦	canopy (m)	16		
Gunopy	11/4			% of benchmark	n/a		5
Sub-canopy	n/a			sub-canopy (m)	n/a	2.0	l
Sub-carlopy	11/4			% of benchmark	n/a	2.5	
Recruitment of canopy species (%)	100 %			% recruitment	100		
Recruitment of carlopy species (70)	100 /8			% of benchmark	100	5	
Tree canopy cover (%)			/	6 Of Deficilitark	100		3
Canopy	n/a		5 0	% canopy cover	27		
Сапору	11/a			% of benchmark	n/a	_	_
Sub-canopy	n/a			% subcanopy cover	n/a	3	1
Sub-carlopy	11/a			% of benchmark	n/a		
Shrub cover (%)	n/a			% shrub cover	11/a 8		
Shrub cover (%)	11/4			% of benchmark	_	5	_
Coarse woody debrie (m/ha)	2/0			n cwd / ha	<i>n/a</i> 295	3	<u> </u>
Coarse woody debris (m/ha)	n/a			% of benchmark	293 n/a	5	_
Native plant can richness			20	% Of Deficilitark	n/a	3	<u> </u>
Native plant spp. richness	n/a		-	a trac ann	2		
Trees	II/a			no. tree spp. % of benchmark	/a	-	
Chaucha	2/0			% of benchmark no. shrub spp.	n/a	၁	
Shrubs	n/a				ى /-	-	
0	- /-			% of benchmark	n/a	5	
Grass	n/a			no. grass spp.	10	_	
Other March	- 1-			% of benchmark	n/a	5	
Other/forbs	n/a			no. other/forb spp.	9	_	
N	0.0/			% of benchmark	n/a	5	20
Non-native plant cover (%)	0 %			% non-native plant cover	30	3	3
Native perennial grass cover (%)	n/a			% native grass cover	33	_	_
0 1 114	,			% of benchmark	n/a	5	5
Organic litter cover (%)	n/a			% organic litter cover	15.8	_	_
Landanana and set the			9	% of benchmark	n/a	5	5
Landscape context (fragmented)			40				
Patch size			10				
Context			5				
Connectivity			5				
Total Score		1	100				73
BioCondition Class							

Site number: 160713 - 5 (FID 71)		(full scores have been		BioCondition Plot		Lat28.619	Long. 151.878	
` ′		ent and non-native cover)						
Attribute	Threshold	Weighting (%)		Value		Sub-score	Score	
Large trees				no. Euc.	14			
Eucalypts	n/a			no. non-Euc.	2			
	n/a							
Non-eucalypts	n/a			% of benchmark	n/a	15	15	
	n/a							
Tree canopy height (m)			5					
Canopy	n/a			canopy (m)	21.2			
				% of benchmark	n/a	2.5	5	
Sub-canopy	n/a			sub-canopy (m)	n/a			
.,				% of benchmark	n/a	2.5		
Recruitment of canopy species (%)	100 %			% recruitment	80			
у органия и от от от органия (л.,	133 //		_	% of benchmark	80	5	5	
Tree canopy cover (%)								
Canopy	n/a		5	% canopy cover	45			
				% of benchmark	n/a	5	5	
Sub-canopy	n/a			% subcanopy cover	n/a	_	_	
ous carrepy	1.,0			% of benchmark	n/a			
Shrub cover (%)	n/a			% shrub cover	0.5			
Official Gover (70)	11,4		-	% of benchmark	n/a	5	5	
Coarse woody debris (m/ha)	n/a			m cwd / ha	40		- v	
Course woody debris (mina)	17/4			% of benchmark	n/a	5	5	
Native plant spp. richness			20	70 Or Borierinian	11/4		- v	
Trees	n/a	•		no. tree spp.	5			
11003	11/4			% of benchmark	n/a	5		
Shrubs	n/a			no. shrub spp.	11/a	3		
Siliubs	11/a			% of benchmark	n/a	F		
Grass	n/a			no. grass spp.	11/a	3		
Glass	II/a			% of benchmark	n/a	E		
Other/forbs	n/a				11/a	5		
Other/forbs	n/a			no. other/forb spp. % of benchmark	n/a	F	20	
Non notive plant caver (0/)	0 %				17.5	<u> </u>	20	
Non-native plant cover (%) Native perennial grass cover (%)	n/a		10	% non-native plant cover % native grass cover	25	<u>5</u>	3	
Native perennial grass cover (%)	n/a			% native grass cover % of benchmark	∠o n/a	5	_	
O					33.2	<u>5</u>	<u> </u>	
Organic litter cover (%)	n/a			% organic litter cover		-	_	
Landsoons contoxt (fragmented)				% of benchmark	n/a		3	
Landscape context (fragmented) Patch size			40					
			10					
Context			5					
Connectivity		,	5					
Total Score			00				75	
BioCondition Class								

Site number: 170713 - 1 (FID 78)	Benchmark (13.12.9)		BioCondition Plot		Lat28.690	Long. 151.911
Attribute	Threshold	Weighting (%)	Value		Sub-score	Score
Large trees		15	no. Euc.	11		
Eucalypts	43 cm (DBH)		no. non-Euc.	0		
	45 /hectare					
Non-eucalypts	n/a		% of benchmark	48.9	5	5
	n/a					
Tree canopy height (m)		5	5			
Canopy	22 m (canopy)		canopy (m)	20		
			% of benchmark	90.9		5
Sub-canopy	n/a		sub-canopy (m)	5.5		
			% of benchmark	n/a		
Recruitment of canopy species (%)	100 %	5	% recruitment	80		
			% of benchmark	80	5	5
Tree canopy cover (%)						
Canopy	60 %	5	% canopy cover	58.0		
.,			% of benchmark	96.7		5
Sub-canopy	n/a		% subcanopy cover	9.5		_
			% of benchmark	n/a		
Shrub cover (%)	34 %	5	% shrub cover	24		
(1)			% of benchmark	70.6	5	5
Coarse woody debris (m/ha)	491 m/ha	5	m cwd	700		_
		_	% of benchmark	142.6		5
Native plant spp. richness		20				_
Trees	4 spp.		no. tree spp.	5		
	. 566.		% of benchmark	125.0	5	
Shrubs	8 spp.		no. shrub spp.	9	Ĭ	
- Cinabo	о эрр.		% of benchmark	112.5	5	
Grass	9 spp.		no. grass spp.	13		
Ciuss	о орр.		% of benchmark	144.4	5	
Other/forbs	21 spp.		no. other/forb spp.	13		
Other/101b3	21 ορφ.		% of benchmark	61.9		17.5
Non-native plant cover (%)	0	10	% non-native plant cover		10	
Native perennial grass cover (%)	15 %		% native grass cover	14		10
Tradive perennial grass cover (70)	13 70	ĭ	% of benchmark	93.3		5
Organic litter cover (%)	79 %		% organic litter cover	56		1
organic inter cover (70)	19 78	~	% of benchmark	70.9		5
Landscape context (fragmented)			70 OI Delicilliaik	70.9	3	3
Patch size		10	, l			
Context		5				
			1			
Connectivity		5				^7.5
Total Score		100	<u> </u>			67.5
BioCondition Class						

Site number: 170713 - 2 (FID 103)	No benchmark 13.11.3 (full scores have been applied ex. Recruitment and non-native cover)		BioCondition Plot		Lat28.366	Long. 152.008	
Attribute	Threshold	Weighting (%)	Value		Sub-score	Score	
Large trees	Tillesiloid	weighting (78)	15 no. Euc.	19		Score	
Eucalypts	n/a	· ·	no. non-Euc.	10			
Lucuiypio	n/a		no. non Edo.	· ·			
Non-eucalypts	n/a		% of benchmark	n/a	15	15	
Hon casalypts	n/a		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	77/4		1	
Tree canopy height (m)	11/4		5				
Canopy	n/a		canopy (m)	10.2			
Campy	174		% of benchmark	n/a	2.5	5	
Sub-canopy	n/a		sub-canopy (m)	n/a		1	
oub ounopy	174		% of benchmark	n/a	2.5		
Recruitment of canopy species (%)	100 %		5 % recruitment	100	2.0		
recordinate of carropy species (70)	100 /0		% of benchmark	100	5	5	
Tree canopy cover (%)			70 01 00110111110111	700	, and the second	, and the second	
Canopy	n/a		5 % canopy cover	35			
Campy	.,, ~		% of benchmark	n/a	5	5	
Sub-canopy	n/a		% subcanopy cover	n/a	Ĭ	١	
out ounopy	.,, ~		% of benchmark	n/a			
Shrub cover (%)	n/a		5 % shrub cover	0			
J. 11 ab 55 to 1 (70)	.,, ~		% of benchmark	n/a	5	5	
Coarse woody debris (m/ha)	n/a		5 m cwd / ha	105	_	1	
	1.7.2		% of benchmark	n/a	5	5	
Native plant spp. richness		2	20				
Trees	n/a		no. tree spp.	3			
			% of benchmark	n/a	5		
Shrubs	n/a		no. shrub spp.	3	-		
			% of benchmark	n/a	5		
Grass	n/a		no. grass spp.	14	_		
			% of benchmark	n/a	5		
Other/forbs	n/a		no. other/forb spp.	14	_		
			% of benchmark	n/a	5	20	
Non-native plant cover (%)	0 %		10 % non-native plant cover	1	10		
Native perennial grass cover (%)	n/a		5 % native grass cover	60			
			% of benchmark	n/a	5	5	
Organic litter cover (%)	n/a		5 % organic litter cover	24.6			
_			% of benchmark	n/a	5	5	
Landscape context (fragmented)							
Patch size			10				
Context			5			1	
Connectivity			5				
Total Score		10	00			80	
BioCondition Class		<u>.</u>					

Site number: 170713 - 3 (FID 102)		.4 (full scores have been	BioCondition Plot		Lat28.490	Long. 151.915	
` ,	applied ex. Recruitm	applied ex. Recruitment and non-native cover)		Biocondition Flot		Long. 131.813	
Attribute	Threshold	Weighting (%)	Value		Sub-score	Score	
Large trees		1	5 no. Euc.	5			
Eucalypts	n/a		no. non-Euc.	1			
	n/a						
Non-eucalypts	n/a		% of benchmark	n/a	15	15	
	n/a						
Tree canopy height (m)			5				
Canopy	n/a		canopy (m)	12			
			% of benchmark	n/a	2.5	5	
Sub-canopy	n/a		sub-canopy (m)	5			
.,			% of benchmark	n/a	2.5		
Recruitment of canopy species (%)	100 %		5 % recruitment	100			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			% of benchmark	100	5	5	
Tree canopy cover (%)						_	
Canopy	n/a		5 % canopy cover	23			
·			% of benchmark	n/a		5	
Sub-canopy	n/a		% subcanopy cover	41.5		1	
			% of benchmark	n/a			
Shrub cover (%)	n/a		5 % shrub cover	23			
5.11 db 55751 (70)	1.,.		% of benchmark	n/a	5	5	
Coarse woody debris (m/ha)	n/a		5 m cwd / ha	160	<u> </u>	1	
Course woody dobite (minu)	.,,		% of benchmark	n/a		5	
Native plant spp. richness		2	20	11/4	<u> </u>	· · ·	
Trees	n/a	-	no. tree spp.	5			
11000	11,4		% of benchmark	n/a	5		
Shrubs	n/a		no. shrub spp.	3			
5111 db5	11,4		% of benchmark	n/a	5		
Grass	n/a		no. grass spp.	12			
Ciuss	11/4		% of benchmark	n/a	5		
Other/forbs	n/a		no. other/forb spp.	6	I		
Other/forbs	11/4		% of benchmark	n/a		20	
Non-native plant cover (%)	0 %	1	0 % non-native plant cove				
Native perennial grass cover (%)	n/a		5 % native grass cover	33		3	
Mative perennial grass cover (70)	II/a		% of benchmark	n/a	5	5	
Organic litter cover (%)	n/a		5 % organic litter cover	21.6	9	3	
Organic inter cover (70)	II/a		% of benchmark	n/a		5	
Landscape context (fragmented)			70 Of Deficilitians	11/a	<u> </u>	, , , , , , , , , , , , , , , , , , ,	
Patch size		1	10				
Context		·	5			1	
Context			5			1	
Total Score		10	<u> </u>		<u> </u>	75	
BioCondition Class		1 10	/U			/5	
DIOCOHUIUON CIASS							

Site number: 180713 - 1 (FID B)	No benchmark 13.3.1 (full scores have been		BioCondition Plot		Lat28.617	Long. 151.879	
<u> </u>		ent and non-native cover)			1		
Attribute	Threshold	Weighting (%)	Value		Sub-score	Score	
Large trees	,	· ·	15 no. Euc	7			
Eucalypts	n/a		no. non-Euc.	0			
	n/a		0/ 25 h 2 2 2 h 2 2 2 1 .	,			
Non-eucalypts	n/a		% of benchmark	n/a	15	15	
-	n/a						
Tree canopy height (m)	,		5				
Canopy	n/a		canopy (m)	14			
	- 1-		% of benchmark	<i>n/a</i> n/a	2.5	5	
Sub-canopy	n/a		sub-canopy (m)				
D ' (0/)	400.0/		% of benchmark	n/a	2.5		
Recruitment of canopy species (%)	100 %		5 % recruitment	66.6			
T (0/)			% of benchmark	67	3	3	
Tree canopy cover (%)	-1-		5.0/	F7 F			
Canopy	n/a		5 % canopy cover % of benchmark	57.5	_	_	
Out	-1-			n/a	5	' °	
Sub-canopy	n/a		% subcanopy cover	n/a			
Ob to	7/2		% of benchmark	n/a			
Shrub cover (%)	n/a		5 % shrub cover	12.5		_	
Coordo vice altri delevie (m/les)	7/2		% of benchmark 5 m cwd / ha	n/a	5	3	
Coarse woody debris (m/ha)	n/a		% of benchmark	95 n/a	_	_	
Native plant spp. richness			20	II/a	o	3	
Trees	n/a	'	no. tree spp.	3			
rrees	II/a		% of benchmark	n/a	_		
Shrubs	n/a		no. shrub spp.	11/a]	1	
Siliubs	II/a		% of benchmark	n/a	5		
Grass	n/a		no. grass spp.	11/a 5]	1	
Glass	II/a		% of benchmark	n/a	5		
Other/forbs	n/a		no. other/forb spp.	11/a 8]	1	
Other/fords	II/a		% of benchmark	n/a	5	20	
Non-native plant cover (%)	0 %		10 % non-native plant cover		,		
Native perennial grass cover (%)	n/a		5 % native grass cover	22.6		1	
Native perennial grass cover (70)	11/4		% of benchmark	n/a	5	5	
Organic litter cover (%)	n/a		5 % organic litter cover	50	, , ,	<u> </u>	
organic inter cover (70)	11/4		% of benchmark	n/a			
Landscape context (fragmented)			75 OF BOHOLIHAIN	11/0	- J	1	
Patch size			10				
Context			5				
Connectivity			5				
Total Score		11	00		I .	73	
BioCondition Class			, , , , , , , , , , , , , , , , , , ,			, · · · · · · · · · · · · · · · · · · ·	

Site number: 180713 - 3 (FID I)	Benchmark (13.12.8)			BioCondition Plot		Long. 151.857	
Attribute	Threshold	Weighting (%)	Value		Sub-score	Score	
Large trees		15	no. Euc.	11			
Eucalypts	43 cm (DBH)		no. non-Euc.	0			
	43 /hectare						
Non-eucalypts	53 cm (DBH)		% of benchmark	51.2	10	10	
	2 /hectare						
Tree canopy height (m)		5	5				
Canopy	19 m (canopy)		canopy (m)	25			
			% of benchmark	131.6	5	5	
Sub-canopy	n/a		sub-canopy (m)	8			
			% of benchmark	n/a			
Recruitment of canopy species (%)	100 %	5	% recruitment	100			
			% of benchmark	100	5	5	
Tree canopy cover (%)							
Canopy	50 %	5	5 % canopy cover	4.6			
			% of benchmark	9.2	0	0	
Sub-canopy	n/a		% subcanopy cover	0.5			
			% of benchmark	n/a			
Shrub cover (%)	18 %	5	5 % shrub cover	0			
			% of benchmark	0.0	0	lo	
Coarse woody debris (m/ha)	491 m/ha	5	m cwd	2520			
			% of benchmark	513.2	2	2	
Native plant spp. richness		20	0				
Trees	3 spp.		no. tree spp.	4			
			% of benchmark	133.3	5		
Shrubs	4 spp.		no. shrub spp.	6			
			% of benchmark	150.0	5		
Grass	12 spp.		no. grass spp.	15			
			% of benchmark	125.0	5		
Other/forbs	23 spp.		no. other/forb spp.	8			
			% of benchmark	34.8	2.5	17.5	
Non-native plant cover (%)	0	10	% non-native plant cover	50	0		
Native perennial grass cover (%)	15 %		% native grass cover	25.6			
			% of benchmark	170.7	5	5	
Organic litter cover (%)	83 %	5	% organic litter cover	30.8			
]			% of benchmark	37.1		3	
Landscape context (fragmented)							
Patch size		10	o				
Context		5					
Connectivity		5	5				
Total Score	•	100)		•	47.5	
BioCondition Class			-				

Site number: 180713 - 4 (FID 12 replacement)	No benchmark 13.3.1 (full scores have been			BioCondition Plot		Lat28.753	Long. 151.857	
` '		nent and non-native cover)						
Attribute	Threshold	Weighting (%)		Value		Sub-score	Score	
Large trees		1		no. Euc.	26			
Eucalypts	n/a		ı	no. non-Euc.	0			
	n/a							
Non-eucalypts	n/a		9	% of benchmark	n/a	15	15	
	n/a							
Tree canopy height (m)			5					
Canopy	n/a		(canopy (m)	19			
			ď	% of benchmark	n/a	2.5	5	
Sub-canopy	n/a		5	sub-canopy (m)	n/a			
			¢	% of benchmark	n/a	2.5		
Recruitment of canopy species (%)	100 %			% recruitment	100.0			
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			c	% of benchmark	100	5	5	
Tree canopy cover (%)								
Canopy	n/a		5	% canopy cover	47.0			
	'			% of benchmark	n/a	5	5	
Sub-canopy	n/a			% subcanopy cover	n/a	_	•	
	.,.			% of benchmark	n/a			
Shrub cover (%)	n/a			% shrub cover	31.0			
on ab cover (70)	1,,4		-	% of benchmark	n/a	5	5	
Coarse woody debris (m/ha)	n/a			m cwd / ha	705			
Coarse woody debris (mina)	1,,4			% of benchmark	n/a	5	5	
Native plant spp. richness		2	20	70 OF BOHOTHITIAN	11/4	Ü		
Trees	n/a			no. tree spp.	3			
11663	11/4			% of benchmark	n/a	5		
Shrubs	n/a			no. shrub spp.	10	3		
Siliubs	11/4			% of benchmark	n/a	F		
Grass	n/a			no. grass spp.	11/a 8	3		
Glass	II/a			% of benchmark	n/a	E		
Other/forbs	n/a				11/a	5		
Other/fords	n/a			no. other/forb spp. % of benchmark	9	-	20	
Non-native plant acres (0/)	0.0/				n/a	5	20	
Non-native plant cover (%)	0 %		10	% non-native plant cover	40	3	3	
Native perennial grass cover (%)	n/a			% native grass cover	14	_	_	
(0/)	,			% of benchmark	n/a	5	5	
Organic litter cover (%)	n/a			% organic litter cover	9	_	_	
				% of benchmark	n/a	5	5	
Landscape context (fragmented)								
Patch size		1	10					
Context			5					
Connectivity			5					
Total Score		10	00				73	
BioCondition Class								

Site number: 190713 - 1 (FID 85)	Benchmark (13.12.9)		BioCondition Plot		Lat28.710	Long. 151.830	
Attribute	Threshold	Weighting (%)	Value		Sub-score	Score	
Large trees		15	no. Euc.	17			
Eucalypts	43 cm (DBH)		no. non-Euc.	0			
	45 /hectare						
Non-eucalypts	n/a		% of benchmark	75.6	10	10	
	n/a						
Tree canopy height (m)		5	5				
Canopy	22 m (canopy)		canopy (m)	22			
			% of benchmark	100.0	5	5	
Sub-canopy	n/a		sub-canopy (m)	n/a			
			% of benchmark	n/a			
Recruitment of canopy species (%)	100 %	5	% recruitment	100			
			% of benchmark	100	5	5	
Tree canopy cover (%)							
Canopy	60 %	5	% canopy cover	51.5			
.,			% of benchmark	85.8	5	5	
Sub-canopy	n/a		% subcanopy cover	n/a		_	
			% of benchmark	n/a			
Shrub cover (%)	34 %	5	% shrub cover	19			
(1)			% of benchmark	55.9		5	
Coarse woody debris (m/ha)	491 m/ha		m cwd	650			
(······,			% of benchmark	132.4	5	5	
Native plant spp. richness		20					
Trees	4 spp.		no. tree spp.	5			
			% of benchmark	125.0	5		
Shrubs	8 spp.		no. shrub spp.	6			
om abo	о орр.		% of benchmark	75.0			
Grass	9 spp.		no. grass spp.	11			
01433	о орр.		% of benchmark	122.2	5		
Other/forbs	21 spp.		no. other/forb spp.	11	-		
Other/for Bo	21 opp.		% of benchmark	52. <i>4</i>		15	
Non-native plant cover (%)	0	10	% non-native plant cover				
Native perennial grass cover (%)	15 %		% native grass cover	3			
Tradite perennal grass cover (70)	10 /0		% of benchmark	20.0		5	
Organic litter cover (%)	79 %		% organic litter cover	51.6		3	
organic inter cover (70)	13 70	۲	% of benchmark	65.3		5	
Landscape context (fragmented)			70 OI DONOMINAN	00.0	J	<u> </u>	
Patch size		10	, I				
Context							
Connectivity		5					
Total Score		100				70	
BioCondition Class		100	<u>′1</u>			70	
DIOCOHUIUON CIASS						1	

Site number: 190713 - 2 (FID E)	No benchmark 13.12.6 (full scores have been applied ex. Recruitment and non-native cover)		BioCondition Plot	BioCondition Plot		Long. 151.832	
					Ta .		
Attribute	Threshold	Weighting (%)	Value		Sub-score	Score	
Large trees	,		15 no. Euc	5	•		
Eucalypts	n/a		no. non-Euc.	0			
	n/a		% of benchmark	,			
Non-eucalypts	n/a		% of benchmark	n/a	15	15	
Tues company hairsht (m)	n/a		5				
Tree canopy height (m)	- /-		•	00			
Canopy	n/a		canopy (m)	20			
Cub samanu	n/a		% of benchmark	n/a	2.5		
Sub-canopy	n/a		sub-canopy (m) % of benchmark	/-	2.5		
Descriptions of concern angles (0/)	100 %		5 % recruitment	<i>n/a</i> 100.0			
Recruitment of canopy species (%)	100 %		% of benchmark	100.0		_	
Tree canopy cover (%)			70 OF Deficilinark	100) 	3	
Canopy	n/a		5 % canopy cover	18.0			
Сапору	11/4		% of benchmark	n/a			
Sub-canopy	n/a		% subcanopy cover	1//a 14		1	
Sub-carlopy	11/4		% of benchmark	n/a			
Shrub cover (%)	n/a		5 % shrub cover	8.5			
Siliub Covel (78)	11/4		% of benchmark	n/a		1	
Coarse woody debris (m/ha)	n/a		5 m cwd / ha	300			
ocaroo mocay acomo (mma)	174		% of benchmark	n/a		5	
Native plant spp. richness			20	7,, G	, , ,		
Trees	n/a		no. tree spp.	6			
	1.7.2		% of benchmark	n/a	5		
Shrubs	n/a		no. shrub spp.	6			
	1.7.2		% of benchmark	n/a			
Grass	n/a		no. grass spp.	12			
			% of benchmark	n/a			
Other/forbs	n/a		no. other/forb spp.	8			
			% of benchmark	n/a	5	20	
Non-native plant cover (%)	0 %		10 % non-native plant cove	er 7.5	5	5	
Native perennial grass cover (%)	n/a		5 % native grass cover	36			
			% of benchmark	n/a		5	
Organic litter cover (%)	n/a		5 % organic litter cover	31			
			% of benchmark	n/a	5	5	
Landscape context (fragmented)							
Patch size			10				
Context			5				
Connectivity			5				
Total Score		10	00			75	
BioCondition Class							

Site number: BC1 Connolly Dam	No benchmark 13.11.8, instead	13.12.8 benchmark used	BioCondition Plot		Lat28.356	Long. 152.002
Attribute	Threshold	Weighting (%)	Value		Sub-score	Score
Large trees			5 no. Euc.	35		
Eucalypts	43 cm (DBH) 43 /hectare		no. non-Euc.	0		
Non-eucalypts	53 cm (DBH) 2 /hectare		% of benchmark	77.8	10	10
Tree canopy height (m)			5			
Canopy	19 m (canopy)		canopy (m) % of benchmark	17.5 92.1		5
Sub-canopy	n/a		subcanopy (m) % of benchmark	n/a <i>n/a</i>		
Recruitment of canopy species (%)	100 %		5 % recruitment % of benchmark	100 <i>100</i>		5
Tree canopy cover (%)						
Canopy	50 %		% canopy cover % of benchmark	51.0 102.0	5	5
Sub-canopy	n/a		% subcanopy cover % of benchmark	15 <i>n/</i> a		
Shrub cover (%)	18 %		5 % shrub cover % of benchmark	2 10.0	3	3
Coarse woody debris (m/ha)	491 m/ha		m cwd % of benchmark	70 14.3		2
Native plant spp. richness		20				
Trees	3 spp.		no. tree spp. % of benchmark	3 100.0	5	
Shrubs	4 spp.		no. shrub spp. % of benchmark	6 150.0	5	
Grass	12 spp.		no. grass spp. % of benchmark	4 33.3		
Other/forbs	23 spp.		no. other/forb spp. % of benchmark	13 <i>56.5</i>	2.5	
Non-native plant cover (%)	0	10	% non-native plant cover		10	10
Native perennial grass cover (%)	15 %		5 % native grass cover % of benchmark	62.6 <i>417.</i> 3	5	5
Organic litter cover (%)	83 %		5 % organic litter cover % of benchmark	25.6 30.8		3
Landscape context (fragmented)						
Patch size		10	0			
Context			5			
Connectivity			5			
Total Score		100	0			63
BioCondition Class						

Site number: BC2 Stanthorpe Industrial Estate	Benchmark (13.12.9)		BioCondition Plot		Lat28.658	Long. 151.906
Attribute	Threshold	Weighting (%)	Value		Sub-score	Score
Large trees			no. Euc.	30		
Eucalypts	43 cm (DBH)		no. non-Euc.	0		
	45 /hectare					
Non-eucalypts	n/a		% of benchmark	133.3	15	15
	n/a					
Tree canopy height (m)		5				
Canopy	22 m (canopy)		canopy (m)	22		
			% of benchmark	100.0	5	5
Sub-canopy	n/a		sub-canopy (m)	n/a		
.,			% of benchmark	n/a		
Recruitment of canopy species (%)	100 %	5	% recruitment	100		
			% of benchmark	100	5	5
Tree canopy cover (%)						
Canopy	60 %	5	% canopy cover	59.8		
			% of benchmark	99.7		5
Sub-canopy	n/a		% subcanopy cover	n/a		
'			% of benchmark	n/a		
Shrub cover (%)	34 %	5	% shrub cover	40		
, ,			% of benchmark	117.6	5	5
Coarse woody debris (m/ha)	491 m/ha	5	m cwd	880		
, , ,			% of benchmark	179.2	5	5
Native plant spp. richness		20				
Trees	4 spp.		no. tree spp.	4		
			% of benchmark	100.0	5	
Shrubs	8 spp.		no. shrub spp.	5		
	· · ·		% of benchmark	62.5	2.5	
Grass	9 spp.		no. grass spp.	4		
	· · ·		% of benchmark	44.4	2.5	
Other/forbs	21 spp.		no. other/forb spp.	15		
			% of benchmark	71.4	2.5	12.5
Non-native plant cover (%)	0	10	% non-native plant cover	0		10
Native perennial grass cover (%)	15 %		% native grass cover	22.5		
			% of benchmark	150.0	5	5
Organic litter cover (%)	79 %	5	% organic litter cover	22.5		
- · · ·			% of benchmark	28.5	3	3
Landscape context (fragmented)						
Patch size		10				
Context		5				
Connectivity		5				
Total Score		100				70.5
BioCondition Class						