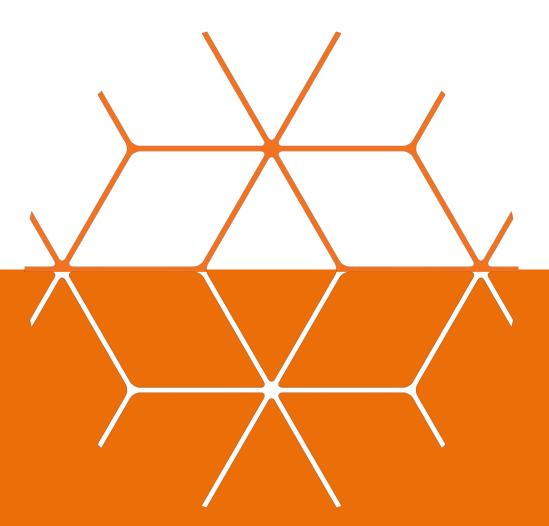
PREPARED FOR:

LENDLEASE COMMUNITIES (SPRINGFIELD) PTY LTD 29 JULY 2021

BASELINE ECOLOGICAL REPORT THE MEADS OFFSET SITE



NEWGROUND

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REPORT TITLE	BASELINE ECOLOGY REPORT
PROJECT	THE MEADS OFFSET SITE
CLIENT	LENDLEASE COMMUNITIES (SPRINGFIELD) PTY LTD

The preparation of this report has been in accordance with the project brief provided by the client and has relied upon the information, data and results provided or collected from the sources and under the conditions outlined in the report.

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DATE	29/07/2021



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Abbreviations

APIAerial photography interpretationBoMBureau of MeteorologyDAWEDepartment of Agriculture, Water and the Environment (Commonwealth)DESDepartment of Environment and Science (Qld)
DAWE Department of Agriculture, Water and the Environment (Commonwealth)
Department of Environment and Science (Qld)
e.g. For example
EPBC Act Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth)
etc. etcetera
EVNT Endangered, Vulnerable, Near Threatened as listed under the NC Reg
ha Hectares
i.e. That is
m Metres
mm Millimetres
PMST Protected Matters Search Tool
RE Regional Ecosystem
TEC Threatened Ecological Community
The Approval Notice of Approval for Woogaroo Heights master planned residential development, Springfield, Queensland (EPBC 2017/7875) (DAWE, 30 November 2020)
VM Act Vegetation Management Act 1999 (Qld)
WoNS Weed of National Significance



Chapter 1: Introduction

1.1 Background

The purpose of this report is to present baseline ecological data which will inform ongoing management of the Meads offset site (part Lot 18 CA31640) (refer **APPENDIX A** for site locality plan). The Meads offset is being delivered pursuant to the *Notice of Approval for Woogaroo Heights master planned residential development, Springfield, Queensland (EPBC 2017/7875)* under Sections 130(1) and 133(1) of the *Environmental Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) ('the Approval') (refer **APPENDIX B** for Approval notice). Consistent with condition 3a of the Approval, the Meads offset is concerned with provision of koala (*Phascolarctus cinereus*) and greyheaded flying-fox (*Pteropus poliocephalus*) habitat offsets over the 132 ha portion of the subject site that has been legally secured as a Category A area via a Voluntary Declaration made under the *Vegetation Management Act 1999* (Qld) (**APPENDIX C**).

The scope of works presented by this study has been prepared in accordance with the requirements for ecological surveys and reporting outlined by Conditions 4 and 5 of the Approval as reproduced below:

- **4.** Within 6 months from the date of this approval, the approval holder must complete baseline surveys of the entire area at The Meads offset site. The baseline surveys must be conducted by a suitably qualified field ecologist in accordance with a scientifically valid, robust, and repeatable methodology and include details of the:
 - a. Vegetation condition attributes for each Regional Ecosystem;
 - b. Number and condition of Grey-Headed Flying-fox foraging species in each quarter (25%) of The Meads offset site;
 - c. Extent of weed cover;
 - d. Number of non-native predators and non-native herbivores; and
 - e. Rate of Koala mortalities attributable to non-native predators.
- 5. Within 3 months of completion of the baseline surveys required under condition 4, the approval holder must publish on the website and provide to the Department a report detailing the results of the baseline surveys required under condition 4 (including survey methodology and dates).

This report presents the objectives, methodology and results arising from baseline ecological studies undertaken over the Meads offset area.

1.2 Objectives of the Study

The objectives of this report are to:

- Detail the baseline survey methodology applied to the study consistent with Approval condition 5;
- Present findings of ecological baseline surveys undertaken over the Meads offset area in 2021 to accord with Approval condition 4;
- Guide ongoing monitoring and adaptive management of the offset area in achievement of performance outcomes specified by the condition 7 of the Approval.

1.3 Outline of the Report

This report is structured as follows:

- Chapter 1: Introduces the subject study and the report;
- **Chapter 2:** Outlines the methodology used for the baseline surveys and discusses the limitations associated with this study;
- Chapter 3: Presents the results of the baseline field survey;
- Chapter 4: Provides a summary conclusion.



Chapter 2: Methodology

2.1 Desktop and Literature Review

TABLE 2.1 below presents the historic surveys and works conducted over the offset area which were referred to in baseline survey planning.

TABLE 2.1: PREVIOUS FIELD STUDIES AND ECOLOGICAL ASSESSMENT WORKS

TECHNICAL REPORT

New Ground (2015). Technical Summary of Koala Habitat Offset Site Proposal - Lot 18 on CA31460 (and associated field data).

New Ground (2019). Response to Additional Information for Preliminary Documentation to Environmental Offsets and Woogaroo Heights Master Planned Residential Development (EPBC 2017/7875) (and raw field data).

Of particular note is that field data and mapping collected/prepared by New Ground over 30 quaternary survey sites and eight (8) secondary survey sites between 2015-2019 was reviewed in design of baseline surveys.

2.2 Field Surveys and Assessment

Diurnal field investigations were undertaken by two (2) senior ecologists over a period of 5 days between 29 March and 2 April 2021, while camera trapping surveys were conducted between 29 March and 15 May 2021. Surveys were conducted using the methodology detailed in the following sections.

A total of 0.2 mm of rain was recorded during the diurnal survey period, while a total of 87.2 mm was recorded in the week leading up to the field surveys at the nearest Bureau of Meteorology (BoM) weather station (station 041529) to the Meads (BoM, 2021). Temperatures reached a high of 23.1°C during the field survey period (BoM, 2021). The location of formal survey points undertaken during the field surveys are demonstrated in **APPENDIX A**. Formal surveys were supplemented with opportunistic observations and random meanders.

2.2.1 BioCondition Benchmark Survey

To assist in the evaluation of vegetation condition, a series of BioCondition assessments were undertaken. BioCondition assessments were completed at nine (9) sites (T1-T9) which were pre-selected within each mapped Regional Ecosystem (RE) type or selected in the field following field assessment (e.g. relocated to more suitable site).

BioCondition assessments were undertaken in general accordance with the methodology described by Eyre *et al* (2015). This involved the establishment of a 100 m x 50 m transect containing five assessment areas (plots/quadrats) to record values for defined ecological attributes at each transect site. These values were used as indicators to provide a quantitative measure for the performance of ecosystem function within the context of biodiversity condition. Permanent markers in the form of star pickets were installed at each end of every transect to physically mark benchmark survey site locations for future reference; namely for annual monitoring surveys. Permanent markers were placed at 0 m and 100 m rather than 0 m and 50 m (as described in Eyre et al, 2015) since a key area of ongoing focus for Biocondition surveys is monitoring of vegetation (canopy) condition attributes (as per Approval condition 4). Transect 9 (T9) was not marked with star pickets given accessibility challenges owing to very dense broad-leaved privet (*Ligustrum lucidium*) infestation in this area of the site. GPS coordinates were collected however.

Field data was recorded using the BioCondition Field Assessment Sheet template (Appendix 2 of Eyre et al. 2011). Canopy recruit and non-native plant cover attributes were recorded separately for use in could be used for calculating BioCondition/offset condition scores.

The following information was recorded at each BioCondition site:

- Date;
- Observers;
- Description of location (bioregion, general description, co-ordinates for plot);
- General habitat description and RE type;
- Median height for canopy, emergent and subcanopy strata;
- Tree species richness (within 100 m x 50 m plot);
- Native plant species richness (within 50 m x 10 m plot);



- Non-native plant cover (within 50 m x 10 m plot);
- Total length of coarse woody debris (length >10 cm diameter and >0.5 m long within 50 m x 20 m plot);
- Estimated number of large eucalypt and non-eucalypt trees (within 100 m x 50 m plot);
- Recruitment of canopy species (within the 100 m x 50 m plot);
- Tree and shrub canopy cover (within 100 m transect);
- Ground cover within 1 m x 1 m plots (native perennial grass and organic litter cover in the ground layer);
- Disturbances (severity, last event and observation type);
- Site photographs (collected via Konect software and stamped with spatial coordinates).

BioCondition benchmarks presented in Attachment A of the Approval Notice (**APPENDIX B**) were applied to each respective RE in determination of BioCondition. Since the benchmarks presented by the Approval Notice were concerned with canopy and sub-canopy height and cover; balance benchmarks for each regional ecosystem were taken from the Queensland Herbarium Biocondition Benchmark Data (version 2.3) (spreadsheet). While the balance biocondition benchmarks are not directly relevant to offset compliance status with the Approval Notice, they were applied to the offset area such that the Queensland herbarium's Habitat Quality Assessment Method may be utilised as a means of calculating a holistic offset area quality score as part of baseline assessment works.

2.2.2 Habitat Quality Assessment Method

Data collected during baseline surveys was applied to the Habitat Quality Site Assessment Template (spreadsheet) consistent with the *Guide to determining terrestrial habitat quality – Methods for assessing habitat quality under the Queensland Environmental Offsets Policy* (DES, 2020). As mentioned above, regional ecosystem biocondition data is a key input to the Habitat Quality Assessment Method (HQAM). The HQAM allows site condition data to be applied specifically to koala (*Phascolarctos cinereus*) habitat attribute indices and produces a quantitative habitat quality score which factors in threats to the species (such as predators) and impediments to species mobility such as weed thickets. Since the Approval Notice outlines performance indicators for the offset area around control of non-native predators and management of weeds, the HQAM method was viewed as a technically rigorous approach to 'scoring' the offset area for baseline-setting purposes.

2.2.3 Vegetation Community Surveys

The vegetation community survey was conducted in accordance with industry best practice standards and employed a methodology generally consistent with the established format detailed within *Methodology for Survey and Mapping of Regional Ecosystems and Vegetation Communities in Queensland, Version 5* (Neldner et al., 2019). Site selection was determined in the field based on perceived aerial photography patterns in vegetation composition and in response to variation in vegetation communities encountered during site traverses. Quaternary sites were used to provide additional (to BioCondition transect site data) survey resolution and refinements in vegetation community delineation.

Vegetation community data was collected from 11 modified quaternary survey sites during the survey. At each survey site, data was collected from a 25-50 m radial plot (**APPENDIX A**). In general accordance with Neldner et al, (2019), at a minimum the following data was collected from each survey site:

- Date and time;
- Location;
- In-field determination of the remnant status of the vegetation;
- Structural formation class using the modified Specht (1970) classification system (Neldner et al., 2019); and
- Floristic composition and relative abundance for the predominant species in the canopy, shrub and ground layers.

2.2.4 Exotic Flora and Fauna Surveys

Exotic flora species of particular focus to the baseline survey were those species deemed to offer a threat to the offset area achieving the performance outcomes of the Approval Notice. That is, weeds that can form thickets which may impede koala movement and/or those weeds that are known to smother or supress succession of native flora species and hence community ability to achieve regional ecosystem benchmarks. The two (2) weed species known to be of particular management concern to the Meads offset site are lantana (*Lantana camara**) and broad-leaved privet (*Ligustrum lucidium*) (New Ground, 2015; New Ground 2019). Baseline surveys were primarily focussed on ground-truthing of weed distribution mapping prepared over the offset area by New Ground in 2019.



Exotic fauna species of focus were those species deemed to offer a threat to the offset area achieving the performance outcomes of the Approval Notice. This includes non-native predators (of koala and grey-headed flying foxes), namely wild dogs (*Canis lupus**), foxes (*Vulpes vulpes**) and cats (*Felis catus**)) and non-native herbivores known to damage native vegetation communities (and hence detract from a vegetation communities' ability to achieve regional ecosystem benchmarks) such as cattle (*Bos taurus*) and red deer (*Cervus elaphus**).

2.2.5 Camera Trapping

Camera traps were the primary method applied to collect baseline data around distribution and occurrence of the target fauna species mentioned in section 2.2.4 above. A total of nine (9) camera traps (C1-C9) were distributed across the offset site. Of this total, five (5) were the 'Swift Enduro' model made by Outdoor Cameras and four (4) were SG570-type cameras made by Scout Guard. The area in front of each trap was baited with large pieces of barbequed chicken when traps were set out. The camera trapping period was from 29/3/2021 to 15/5/2021 (46 nights). Due to selected camera malfunction and turning of a camera (by a cow) during the survey period the total number of trap nights was 364.

Preferential camera trap locations for baseline (and ongoing monitoring purposes) were determined in review of data collected at each trap. Trap C5 was culled from baseline index calculations since it was turned (by a cow) early in the survey period (10 April) and as a result yielded low volumes of data. Trap C8, which was located outside of the offset area on the bank of a dam was also excluded from baseline calculations given the high level of cattle traffic at this location (i.e., cattle sitting in front of camera for much of the survey period). Accordingly, the total number of trap nights utilised in calculation of baseline abundance indices was 319. Abundance indices for each target species over the offset area were calculated by dividing the number of occurrences by the number of trap nights.

Camera traps were generally located adjacent to tracks (favouring the crossroads of tracks) anticipated to form movement conduits for non-native predators and herbivores. Site cues such as apparent deer rubs, dog scats and seemingly preferable grazing areas for deer as well as a clear line of sight were considered in placement of camera traps. Each camera trap site was established as a 'permanent' survey site via installation of a star picket such that future camera trap surveys may be conducted from baseline locations. Each camera trap was tied to a star picket with cable ties. Refer to **APPENDIX A** for camera trap locations and **APPENDIX D** for photographs of set out.

2.2.6 Koala Spot Assessment Technique (KSAT)

Koala scat searches were undertaken in general accordance with the Koala Spot Assessment Technique (KSAT) adopted by Phillips and Callaghan (2011); an exception being that 20 trees were assessed at each KSAT site (rather than the standard 30). This adaptation was made to allow broaden site coverage within the survey period. The methodology involved searching the basal circumference of suitable Koala food trees for evidence of utilisation by the Koala in the form of koala scats. Within each formal KSAT plot, a 'centre tree' was chosen, and along with this tree, an additional 19 trees within a radial circumference of the centre tree were searched for koala scats. A total of 20 trees were, therefore, searched within each formal KSAT plot, and each tree was searched for 2 person minutes or until a koala scat was found, whichever came first. Trees with yielded koala scats were marked with line-marking paint for future reference. Eight (8) formal KSAT surveys were undertaken, these were situated at each BioCondition transect site (**APPENDIX A**). A KSAT survey could not be undertaken at site T9 given the density of broad-leaved privet here.

2.2.7 Observation Sites

A total of 21 observation sites (O1-O21) were recorded across the offset area (**APPENDIX A**). Observation sites were used to record general observations such as evidence of disturbance, permanent water features, changes to weed cover (edges of infestations), opportunistic records of signs of koalas (e.g. scats and scratches on trees) and location of partially grown over or obstructed tracks. Photographs, GPS coordinates and notes were collected at each point.

2.2.8 Disturbance Surveys

Disturbance data was recorded at each formal vegetation survey plot, and opportunistically (observation sites) during site traverses at the discretion of the ecologist. At each disturbance survey site, frequency and severity were assessed and recorded for the following disturbance categories:

- Erosion;
- Fence lines;
- Fire breaks;



- Flooding;
- Grazing;
- Logging;
- Mechanical clearing;
- Prescribed burning;
- Thinning;
- Wild fire;
- Wind storm; and
- Vehicular track.

2.2.9 Data Collection Protocol

All positional, quantitative, qualitative, and photographic data was recorded using Konect® data capture software using proprietary electronic forms for the recording of specific ecological data. A Trimble TDC600 data capture unit was used to run the data capture software equipped with a Trimble extension antenna running a Trimble Catalyst high accuracy GPS subscription. Spatial accuracy of ± 3 m is generally achieved using the data capture process described.

2.2.10 Survey Limitations

Whilst a range of variation has been assessed throughout all vegetation communities/habitats encountered on-site, the entirety of each community/habitat type has not been investigated at a fine level of detail. It is acknowledged that the offset area exhibits a complex mosaic of regional ecosystem types including small pockets of distinct regional ecosystem types within broader regional ecosystem polygons across a variety of land zones. The baseline survey was focussed on collection of data suitable to characterise site condition relative to canopy and sub-canopy height and cover, cover of target weeds and occurrence of target non-native predators and herbivores. Accordingly, a detailed inventory of all flora species within each stratum was not of interest to the study. Consequently, whilst a diversity of flora species has been recorded, the inventory of flora species compiled from the survey should not be considered an exhaustive list of flora species within the site. Similarly, the fauna surveys were targeted and do not account for the full range of seasonal habitat utilisation by, or detectability of, every fauna species that may utilise the site, nor does it account for the influence of weather during preceding seasons or years upon the presence or detectability of fauna during the survey. It is also noted that site access was limiting in some circumstances, namely sheer drops at gullies and through large and dense thickets of lantana and broad-leaved privet. The site's north-west poses significant access challenges given weed cover and terrain.



Chapter 3: Results

3.1 Baseline Survey Results

For ease of application to ongoing offset management, monitoring and reporting, this chapter presents field survey results in relation to the baseline data required under condition 4 of the Approval Notice.

3.1.1 Vegetation Condition Attributes for Regional Ecosystems

Condition 4a of the Approval Notice requires that baseline vegetation condition attributes are recorded from each regional ecosystem identified within the offset area. The Approval Notice defines vegetation condition attributes as 'attributes that indicate vegetation functions for biodiversity, as defined in the most recently officially released version of Queensland's Biocondition Assessment Manual'.

A description of each BioCondition assessment survey site (T1-T9) in terms of general condition and habitat attributes is presented in **Table 3.1**, while Biocondition assessment attributes for each regional ecosystem of transect survey sites T1-T9 are presented in **Table 3.2** below. **APPENDIX E** presents regional ecosystem mapping for the offset area while **APPENDIX F** presents biocondition data within the Habitat Quality Site Assessment tool and associated scoring for each attribute. The overall Habitat Quality Assessment score recorded for the offset area through baseline surveys was 6.17.

BIOCONDITION SURVEY SITE	CONDITION AND HABITAT ATTRIBUTES DESCRIPTION
T1	 » Evidence of logging » Evidence of recent cattle grazing » Moderate to low weed intrusion » Habitat features small areas of rocky outcrops, leaf litter variable ranging from 40% to 10%, no seeps or boggy areas, 50 m from ephemeral creek, decorticating bark, young cohort of overstorey tree (none senescing)
T2	 » Evidence of logging, regular from recent 5 years to 30 years + » No signs of cattle grazing in forest (along transect) but evidence on track » Habitat features – small rocks (no outcrops), fallen timber with hollows, hollow bearing trees/stags, leaf litter levels high 60-100mm » No evidence of fire (8+ years) » Mixed age class forest including scattered older growth trees
Τ3	 » Evidence of logging 10+ years prior » Evidence of recent cattle grazing » Moderate to high weed invasion » Habitat features – significant rocky outcrops and scree upslope, variable diameter logs on ground. Very few follow bearing trees (largely associated with rocky areas and sparse) » Relatively young age class trees » Deep leaf litter - 60-80% » Evidence of fire – 5-10 years
Τ4	 » Evidence of high intensity logging a number of log windrows » Evidence of cattle on track » Moderate to very high weed invasion (mainly Lantana) » No significant rocky outcrops, high leaf litter, old termitaria, very few hollow bearing trees, small scattered stags » Relatively young age class trees » No recent evidence of fire 8+ years » Significant dieback observed with Eucalypts and Lophostemon observed with prolific epicormic growth – expected due to prolonged drought
T5	» High weed infestation dominated by lantana, small numbers of privet and opuntia

TABLE 3.1: CONDITION AND DISTURBANCE PROFILE OF BIOCONDITION SURVEY SITES



BIOCONDITION SURVEY SITE	CONDITION AND HABITAT ATTRIBUTES DESCRIPTION
	 » Evidence of high intensity logging with waste log windows within transect. Falsely increasing levels of woody debris » Relatively young cohort of age classes, no hollow bearing trees and no stags » No recent evidence of fire – 8+ years » High levels of leaf litter
Τ6	 Extremely high levels of lantana (camara +/- montevidensis) + small patches and thickets of privet No recent evidence of logging Older logging signs - canopy open - some older logging waste piles Relatively young cohort of trees, occasional hollow bearing trees (gliders, possums) on steep rocky outcrops No recent evidence of fire - 8+ years Moderate level of leaf litter, no large dead wood on ground Watercourse with rocky bend and banks through middle of transect
Τ7	 Moderate level of weed invasion – lantana Heavily logged, no recent (10-15 years) evidence of logging, but older signs of logging - reflected in low woody debris score Some woody debris large (natural) with hollows Relatively young cohort of tree – most less than 50 years No recent evidence of fire – 10+ years No rocky outcrops but scattered rocks Deep leaf litter average 75% - 100% over site No drainage channels, seeps or other watercourses
Τ8	 » Moderate to low level of weed infestation, heaviest near road » Heavily logged with repeated logging campaigns, however greater than 10 years » Cattle grazing observed » Fire not recorded – 10+ years » Trees generally young age cohort » No senescing trees observed » Habitat features include a number of large 50cm+ diameter logs on ground. No hollow bearing trees, no drainage features, swamps seeps in vicinity » Allocasuarina spp. in moderate numbers » No rocky outcrops and few/sparse scattered rocks » Leaf litter variable/grass cover in high areas
Т9	 » Very high level of weed infestation, mostly privet with some lantana. Thickets impenetrable and/or very difficult to walk through » Mid and ground layer very sparse to absent (shaded out under weeds). Some emergent Eucalypts » Heavily logged, likely in recent times (>5 years ago) » Fire not recorded – 10+ years » Trees generally young age cohort

TABLE 3.1: CONDITION AND DISTURBANCE PROFILE OF BIOCONDITION SURVEY SITES



TABLE 3.2: BIOCONDITION DATA SUMMARY FOR RES RECORDED OVER OFFSET SITE

ABITAT QUALITY	ASSESSMENT U	ASSESSMENT UNIT/TRANSECT NUMBER											
	1	2	3	4	5	6	7	8	9				
SSESSMENT JNIT AREA (HA)	2	10	15	35	5	10	35	10	10				
REGIONAL ECOSYSTEMS	12.8.14	12.12.2	12.9-10.14	12.9-10.17	12.12.23	12.12.23	12.9-10.17	12.12.3	12.3.7				
BIOREGION	SEQ	SEQ	SEQ	SEQ	SEQ	SEQ	SEQ	SEQ	SEQ				
1. RECRUITMENT OF WOODY PERENNIAL SPECIES NUMBER OF ECOLOGICALLY DOMINANT LAYERS REGENERATING) 2. NATIVE PLANT \$	25.00	16.50 S	16.60	25.00	33.30	33.00	12.50	55.00	0.00				
TREES			0.00	7.00	0.00	5.00	0.00	5.00	4.00				
	5.00	6.00	3.00	7.00	6.00	5.00	8.00	5.00	4.00				
SHRUBS	3.00	4.00	3.00	4.00	2.00	3.00	3.00	5.00	0.00				
GRASSES	2.00	2.00	2.00	4.00	3.00	3.00	2.00	2.00	0.00				
FORBS	6.00	7.00	7.00	11.00	8.00	6.00	8.00	12.00	0.00				
3. TREE CANOPY H	EIGHT												
CANOPY LAYER	20.00	24.00	24.00	24.00	22.00	20.00	20.00	20.00	20.00				
SUB-CANOPY AYER	6.00	8.00	11.00	7.00	7.00	12.00	12.00	10.00	7.00				
EMERGENT AYER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
4. TREE CANOPY C	OVER												
CANOPY LAYER	46.50%	50.50%	46.00%	47.50%	62.00%	38.00%	50.00%	67.00%	15.00%				
SUB-CANOPY AYER	10.00%	10.00%	20.00%	30.00%	20.00%	10.50%	13.50%	26.00%	0.00%				
EMERGENT AYER	0.00%	0.00%		0.00%	0.00%	0.00%	6.00%	0.00%	0.00%				
5. SHRUB CANOPY COVER	12.00%	21.00%	35.50%	27.50%	12.00%	30.00%	16.50%	27.00%	0.00%				



TABLE 3.2: BIOCONDITION DATA SUMMARY FOR RES RECORDED OVER OFFSET SITE

HABITAT QUALITY ATTRIBUTES	ASSESSMENT UNIT/TRANSECT NUMBER											
ATTRIBUTED	1	2	3	4	5	6	7	8	9			
6. NATIVE PERENNIAL GRASS COVER	1.40%	7.00%	5.00%	12.00%	6.40%	11.00%	3.60%	31.00%	0.00%			
7. ORGANIC LITTER	59.00%	90.00%	75.00%	87.00%	95.00%	65.00%	83.00%	49.00%	0.00%			
8. LARGE TREES	20.00	20.00	12.00	20.00	18.00	22.00	18.00	15.00	6.00			
9. COARSE WOODY DEBRIS (METERS)	1130.00	780.00	420.00	820.00	1260.00	400.00	420.00	545.00	0.00			
10. WEED COVER	19.00%	14.50%	75.50%	27.00%	36.50%	61.50%	18.50%	21.50%	90.00%			



3.1.2 Number and Extent of Grey-headed Flying-fox Foraging Species

Condition 4b of the Approval Notice requires that the number of Grey-headed flying fox foraging species in each quarter (25%) of the offset site is articulated. The Approval Notice defines Grey-headed flying-fox foraging habitat as 'areas of vegetation that contain Grey-headed flying-fox foraging trees, including winter and spring flowering species'. Grey-headed flying foxes have been recorded to forage on the blossoms of *Eucalyptus*, *Corymbia*, *Angophora*, *Banksia and Melaleuca* species as well as some rainforest species (Commonwealth of Australia, 2021).

In total, 25 species of myrtaceous potential Grey-headed flying-fox foraging trees have been recorded over the offset area as either dominant or associates of regional ecosystem types recorded. Of these, 21 species have been reported to flower in the winter or spring. **Table 3.2** presents the regional ecosystem type(s) in which each foraging species has been recorded on site and the percentage of the offset area in which the given regional ecosystem type has been recorded. Refer to **APPENDIX E** for regional ecosystem mapping for the offset area.

RE TYPE RECORDED IN OFFSET AREA	TOTAL NUMBER OF GHFF FORAGING SPECIES RECORDED	NUMBER OF GHFF WINTER/SPRING FORAGING SPECIES RECORDED	PROPORTION OF OFFSET AREA (%)
12.3.7	8	5	<13.5% (mixed polygon)
12.8.14	7	6	1.5%
12.9-10.14b	3	3	<71% (mixed polygon)
12.9-10.17c	14	13	<71% (mixed polygon)
12.12.2	6	5	<9.8% (mixed polygon)
12.12.3	6	5	<9.8% (mixed polygon)
12.12.23	9	7	<17.5% (mixed polygon)

TABLE 3.2: NUMBER OF MYRTACEOUS GHFF FORAGING SPECIES OVER OFFSET AREA BY RE

Table 3.3 presents the Grey-headed flying-fox foraging trees recorded over the site during regional ecosystem ground truthing and biocondition surveys. The regional ecosystem type in which each species has been recorded is also presented in **Table 3.3**. Further, flowering times for each Grey-headed flying-fox foraging species are recorded in **Table 3.3**.

SDECIES	OCCURRENCE SPECIES WITHIN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	DETAILS AND
OFFSET AREA (RE TYPE)		SUM	IMER	AUTUMN			WINTER		SPRING			SUMMER	SOURCE	
Angophora floribunda	12.3.7													Flowering has been recorded in January, February and December (Euclid, 2021).
Angophora subvelutina	12.8.14; 12.9-10.17; 12.12.23; 12.12.2; 12.3.7													Flowering has been recorded in January, February and December (Euclid, 2021).
Angophora leiocarpa	12.12.2; 12.9-10.17; 12.12.3													Flowering has been recorded in February, November and December. (Euclid, 2021)
Corymbia citriodora	12.12.2; 12.9-10.17; 12.12.23; 12.12.3													Flowering has been recorded in January, April, May, June, July, August, October and December (Euclid 2021).
Corymbia intermedia	12.9-10.17													Flowering has been recorded in January, February, October, November and December. (Euclid)
Eucalyptus acmenoides	12.12.23; 12.9-10.17													Flowering has been recorded in April, July, August, September, October, November and December.
Eucalyptus biturbinata (syn. E. punctuata)	12.12.23													Flowering has been recorded in February, May and December (Euclid 2021).
Eucalyptus carnea	12.12.23; 12.9-10.17													Flowering has been recorded in April, September, October and November. Euclid
Eucalyptus crebra	12.8.14; 12.12.23; 12.12.3; 12.9-10.17													Flowering has been recorded all months except February (Euclid 2021).
Eucalyptus eugenioides	12.8.14													Flowering has been recorded in January, June, July, August, September, October and December (Euclid, 2021)
Eucalyptus major	12.9-10.17; 12.12.23													Flowering has been recorded in November (PlantNet, 2021).

TABLE 3.3: FLOWERING PERIOD OF GHFF FORAGING SPECIES RECORDED ON OFFSET SITE



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	OCCURRENCE WITHIN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	DETAILS AND
SPECIES	OFFSET AREA (RE TYPE)	SUM	IMER		AUTUMN			WINTER			SPRING		SUMMER	SOURCE
Eucalyptus melliodora	12.8.14													Flowering has been recorded in January, February, May, June, July, August, September, October, November and December (PlantNet, 2021).
Eucalyptus moluccana	12.8.14													Flowering has been recorded in January, February, March, April, May, June, August, October, November and December. (Euclid, 2021)
Eucalyptus microcorys	12.12.2; 12.9-10.14; 12.9-10.17; 12.8.14													Flowering has been recorded in January, August, September, October and November (Euclid, 2021).
Eucalyptus pilularis	12.12.2; 12.9-10.14; 12.9-10.17													Flowering has been recorded in January, February, March, April, July, October, November and December (PlantNet, 2021).
Eucalyptus propinqua	12.12.2; 12.9-10.17; 12.12.23; 12.12.3; 12.3.7													Flowering has been recorded in January, February and April (PlantNet, 2021).
Eucalyptus robusta	12.3.7													Flowering has been recorded in May, July August, September and October (Euclid, 2021).
Eucalyptus siderophloia	12.9-10.17													Flowering has been recorded in January, May, July, September, October, November and December (PlantNet, 2021).
Eucalyptus tereticornis	12.8.14; 12.12.2; 12.9-10.17; 12.12.23; 12.12.3; 12.3.7													Flowering has been recorded in January, February, April, May, June, July, August, September, October and November (PlantNet, 2021).
Eucalyptus tindaliae	12.9-10.17													Flowering has been recorded in May, June and August in tropical north-eastern Australia and in more southerly warm- temperate areas in January, February and March (PlantNet, 2021).

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SPECIES	OCCURRENCE WITHIN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	DETAILS AND
SPECIES	OFFSET AREA (RE TYPE)	SUM	MER		AUTUMN			WINTER			SPRING		SUMMER	SOURCE
Lophostemon confertus	12.9-10.14; 12.9- 10.17; 12.12.23; 12.12.3													Flowering has been recorded from October – December (PlantNet, 2021)
Melaleuca bracteata	12.3.7													Flowering has been recorded in Spring (PlantNet, 2021)
Melaleuca linariifolia	12.3.7													Flowering has been recorded in Spring – Summer (PlantNet, 2021)
Melelauca trichostachya	12.3.7													Flowering has been recorded in Summer (PlantNet, 2021)
Melaleuca viminalis	12.3.7													Flowering has been recorded Spring to early Summer, also sporadically throughout the year. (PlantNet, 2021)



3.1.3 Extent of Weed Cover

Condition 4c of the Approval Notice requires that the Extent of Weed Cover across the offset area is articulated. The Approval Notice defines Extent of Weed Cover as the proportion (expressed as a percentage) of the total land area in which any square metre contains a non-native plant species known to restrict the movement of koala and/or degrade the quality of koala habitat and/or habitat for Grey-headed flying-fox, or its ability to regenerate. Such non-native plant species include Lantana camara and Ligustrum lucidium.

Vegetation surveys undertaken by New Ground (2015; 2019) and the current baseline surveys identified Lantana and Broad-leaved privet to be the weed species of management concern over the offset area with respect to restriction of koala movement and inhibitors to regeneration of koala and grey-headed flying fox habitat resources. Weed cover (projected foliage cover) was recorded over the offset area via quaternary and observation survey sites. The offset area was mapped according to four weed density classes (scattered (<25% cover), scattered to dense (26-75% cover), dense (76-90% cover) and impenetrable (>90% cover)).

APPENDIX G presents the results of weed mapping undertaken over the offset area, while **Table 3.4** summarises weed cover extent over the offset area. Representative photographs of weed thickets are presented in **APPENDIX D**.

TABLE 3.4: BASELINE EXTENT OF WEED COVER OVER OFFSET AREA

SCATTERED (<25%) (HA)	SCATTERED TO DENSE (26-75%) (HA)	DENSE (76-90%) (HA)	IMPENETREBLE (>90%)
84.8	5.6	32.6	8.9

3.1.4 Number of Non-native Predators and Non-native Herbivores

Camera trap survey data was used to determine baseline abundance of non-native predators and non-native herbivores. Conclusive identification of individual animals of a given species was not always possible and as such the data could not be used to arrive at a number of individuals recorded over the survey period. However, number of occurrences of each species at each camera trapping site was used to provide a measure of baseline abundance at each camera trap site and across the offset site as a whole. **Table 3.6** presents the non-native predator and non-native predator species of interest to the ongoing management of the offset area as a koala and grey-headed flying fox habitat offset. Location of each camera trap site is presented in **APPENDIX B**.

CAMERA TRAP SITE	NUMBER OF TRAP	SPECIES OF INTEREST (OCCURRENCES)							
	NIGHTS	CANIS FAMILIARIS*	VULPES VULPES*	CERVUS ELAPHUS*	BOS TAURUS*	CANIS LUPUS			
C1	45	3	0	0	>45	1			
C2	46	2	0	1	>46	-			
C3	46	4	0	5	>46	1			
C4	46	1	0	6	>46	1			
C6	45	4	1	0	>45	1			
C7	46	6	1	8	>46	3			
C9	45	3	0	2	>45	0			
TOTAL	319	23	2	22	>319	7			
ABUNDANCE IND	ABUNDANCE INDEX		0.006269592	0.068965517	1	0.021943574			

TABLE 3.5: BASELINE NON-NATIVE PREDATOR AND HERBIVORE ABUNDANCE OVER OFFSET AREA



A herd of domestic cattle (estimated at 30 individuals) was recorded across the offset area at each camera trap location. This herd is anticipated to be roaming onto the offset area from adjacent properties. Given the high number of images of cattle collected on camera traps (~3000), individual occurrences of cattle were not recorded. For the purpose of the baseline survey, expression of domestic cattle presence as an occurrence each trap night was deemed sufficient since a management objective for the offset area is total exclusion of domestic cattle.

Wild dogs (*Canis familiaris**) were recorded (23 occurrences or 0.072 per trap night) across all of the camera trap sites. Review of imagery revealed occurrences of dogs better resembling dingos (*Canis lupus*) based on skull morphology and colouration (see **Plates 1 and 2**). Dingo was less frequently recorded than wild dogs at 7 occurrences (or 0.021 per trap night) and appears less widespread through the offset area with occurrences at 85% of the camera trap sites. Wild dog and dingo occurrences were differentiated to guide ongoing offset management. This is pertinent since dingos are a native species and are not a target of predator reduction objectives over the offset area. However, wild dogs are a target for predator number reduction throughout the offset site.



PLATE 1. DINGO RECORDED AT SITE C7

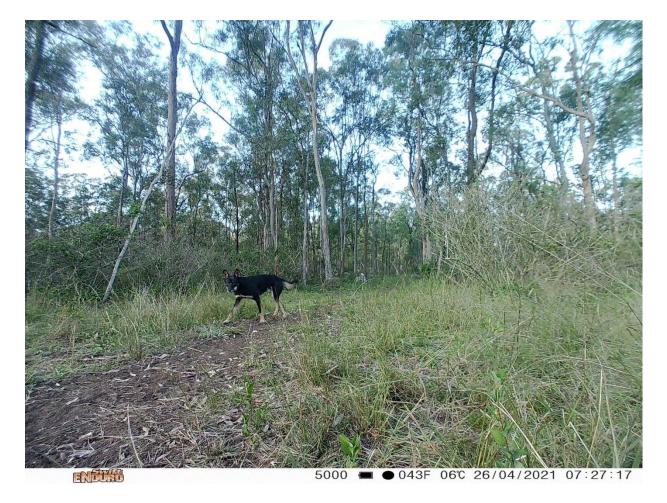


PLATE 2. WILD DOG RECORDED AT SITE C7

Red deer (*Cervus elaphus**) was the most frequently recorded non-native herbivore with a total of 22 occurrences (0.068 per trap night). Individuals from a mixed aged cohort were recorded, including juveniles and breeding-aged stags and does. Refer to **Plate 3** for picture of a stag recorded at C7. This species is of management interest given the deleterious impact it can have on native vegetation communities (including koala and grey-headed flying fox habitat resources) in terms of trampling/ringbarking, inhibiting natural regeneration (via browsing on understorey) and introduction of weed seeds (DAF, 2020).





PLATE 3. STAG RECORDED AT C7

A low abundance of fox (*Vulpes vulpes*^{*}) was recorded with two (2) records (0.006 per trap night) collected (**Plate 4**). Feral cat (*Felis cattus*^{*}) was not recorded during surveys. The low level of fox and cat abundance may be associated with the relatively high abundance of wild dogs and dingoes on the offset area (NSW TSSC, 2020).





PLATE 4. FOX RECORDED AT C8

3.1.5 Koala Mortalities

Direct or indirect records of koala mortality were not observed during baseline surveys. Notwithstanding, koala scat activity technique (KSAT), opportunistic and camera trapping surveys revealed wide-spread use of the offset area by the species. Koala activity levels at formal baseline survey sites were calculated using the KSAT method (Philips and Callaghan, 2011) for reference in ongoing management and monitoring of the offset area.

TABLE 3.6 summarises the results of baseline KSAT surveys undertaken over the offset area. Activity levels were calculated for each survey site using the methodology associated with the KSAT methodology. Refer to **APPENDIX A** for location of KSAT survey sites and **APPENDIX D** for representative photographs.

KSAT SITE (RE TYPE)	TREES WITH KOALA SCATS	ACTIVITY LEVEL BASED ON SCATS (%)
KSAT 1 (12.12.2)	7	35
KSAT 2 (12.9-10.17c)	2	10
KSAT 3 (12.9-10.14b)	0	0
KSAT 4 (12.8.14)	1	5
KSAT 5 (12.12.3)	0	0
KSAT 6 (12.12.23)	0	0
KSAT 7 (12.9-10.17c)	0	0
KSAT 8 (12.12.3)	0	0

TABLE 3.6: BASELINE KSAT SURVEY RESULTS



Koala activity levels were lowest at areas of the offset area densely infested with Lantana (*Lantana camara**) and Broad-leaved privet (*Ligustrum lucidium**). As noted in section 2.2.6, impenetrable thickets of *L.lucidium* prevented KSAT survey at site T9.

As shown in **Plate 5**, Koala was recorded at camera trapping site C1.



PLATE 5 KOALA RECORDED AT CAMERA TRAP SITE C1





Chapter 4: Conclusion

Conclusion 4.1

This report has been prepared to document baseline ecological values of the Meads offset site with respect to the attributes called up by condition 4 of the DAWE (2020) approval notice pertaining to Woogaroo Heights master planned residential development, Springfield Queensland (EPBC 2017/7875), dated 30 November 2020. Baseline survey data is to be used in ongoing monitoring and adaptive management of the offset site for achievement of the ecological condition performance indicators outlined by condition 7 of the above-referenced approval notice.



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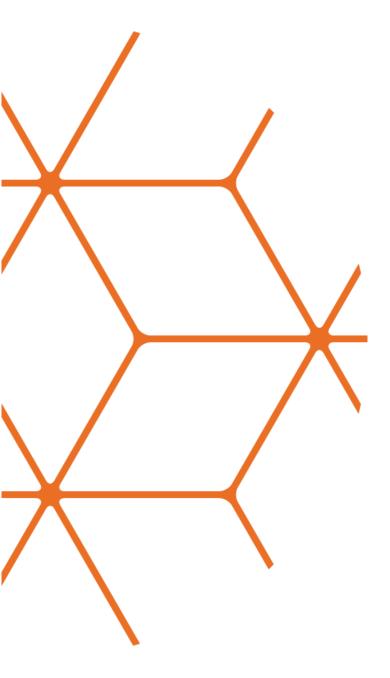
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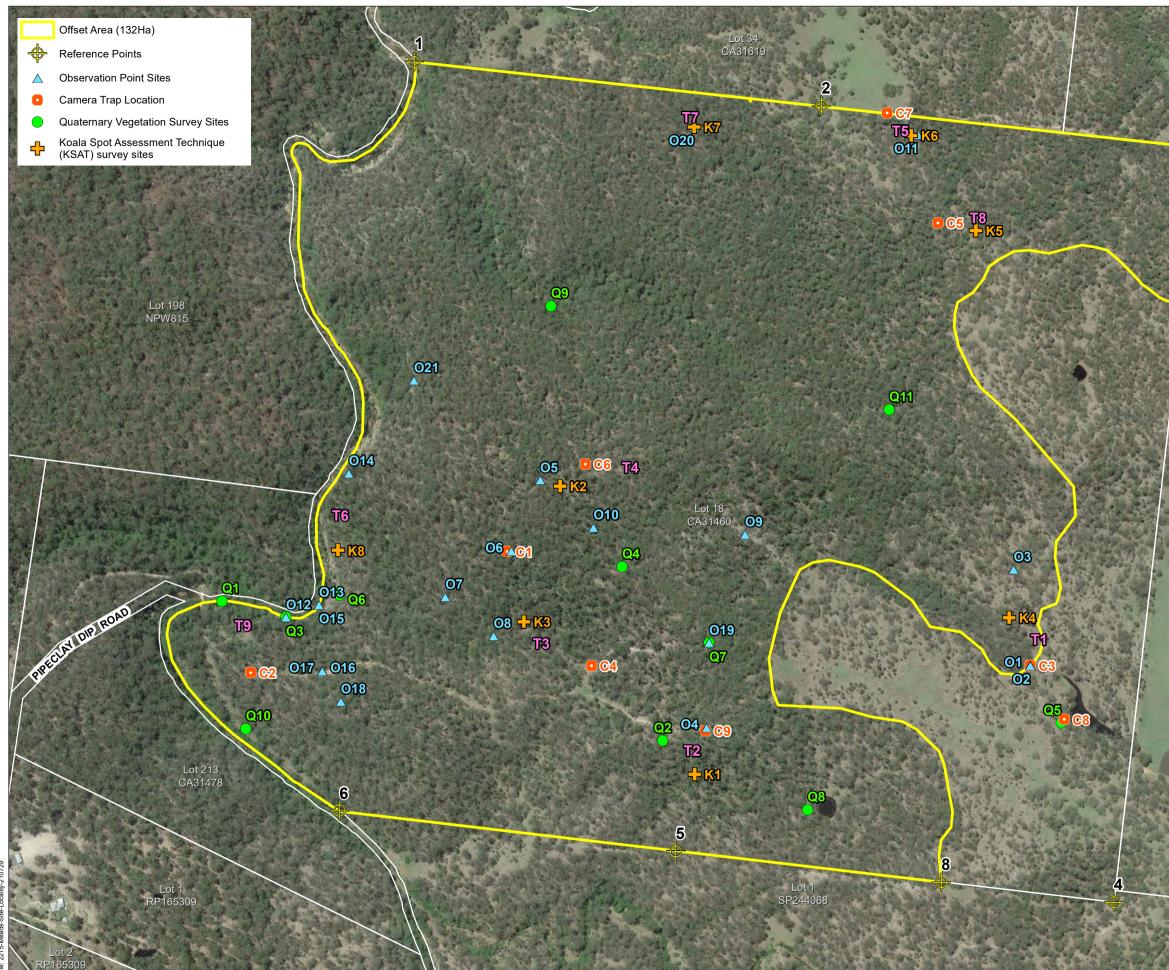
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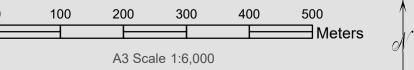




APPENDIX A Site Locality Plan







Lot 3 SP189207
Lot 1 RP54126
3
7
•
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Lot 1 CSH1100
GPS Reference Points Projection: UTM (MGA Zone 56)
Datum: GDA 94

	Datum: GDA 94	
Marker	Easting	Northing
1	412139.443704	6974322.859350
2	412785.408333	6974252.351530
3	413386.603079	6974186.480470
4	413249.646846	6972989.424020
5	412554.147776	6973070.692990
6	412020.211901	6973134.209940
7	413358.440744	6973939.669080
8	412975.864571	6973021.004820

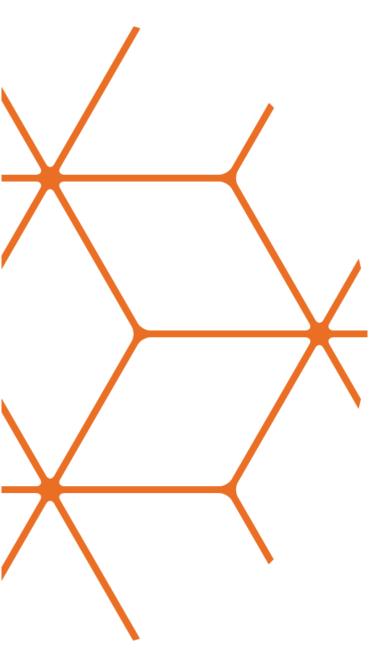
22/03/19

Cadastral boundaries: QLD DCDB DNRM 2021 Aerial Photo: Google Earth 11/1/2017

Sheet Numb

Sources

APPENDIX B Approval Notice



Australian Government Department of Agriculture, Water and the Environment

APPROVAL

Woogaroo Heights master planned residential development, Springfield, Queensland (EPBC 2017/7875)

This decision is made under sections 130(1) and 133(1) of the *Environment Protection and Biodiversity Conservation Act 1999* (Cth). Note that section 134(1A) of the **EPBC Act** applies to this approval, which provides in general terms that if the approval holder authorises another person to undertake any part of the action, the approval holder must take all reasonable steps to ensure that the other person is informed of any conditions attached to this approval, and that the other person complies with any such condition.

Details

Person to whom the approval is granted (approval holder)	Lendlease Communities (Springfield) Pty Limited
ACN or ABN of approval holder	19 087 876 864
Action	To develop the Woogaroo Heights residential development located within the Greater Springfield Master Planned Development Area, approximately 10 kilometres east of the Ipswich Central Business District, Queensland [See EPBC Act referral 2017/7875].

Approval decision

My decision on whether or not to approve the taking of the action for the purposes of the controlling provision for the action is as follows.

Controlling Provisions

Listed Threatened Species and Communities	如周围,算法在10月4日,在10月1日,10月1日
Section 18	Approve
Section 18A	Approve

Period for which the approval has effect

This approval has effect until 2033.

Decision-maker

Name and position	Kim Farrant
	Assistant Secretary, Environment Approvals Queensland and Sea Dumping
	Branch A
	Department of Agriculture, Water and the Environment
Signature	Angun
Date of decision	30 November 2020

Conditions of approval

This approval is subject to the conditions under the EPBC Act as set out in ANNEXURE A.

ANNEXURE A – CONDITIONS OF APPROVAL

Part A – Conditions specific to the action

Development area

- For the protection of the Koala and the Grey-headed Flying-fox, the approval holder must not clear more than 57.03 hectares of Koala habitat and Grey-headed Flying-fox foraging habitat. The approval holder must only clear within the development area.
- 2. For the protection of the Koala and the Grey-headed Flying-fox at the development area, the approval holder must:
 - Ensure that a fauna spotter/catcher is present during all clearing and construction activities and given sufficient authority to ensure that such activities do not cause injury or death of Koalas;
 - b. Clear in accordance with the *Nature Conservation (Koala) Conservation Plan 2017* under the *Nature Conservation Act 1992* (Qld) to allow Koalas to safely move out of clearing areas and into connected areas of Koala habitat, and implement all provisions for sequential clearing;
 - c. Install temporary Koala exclusion fencing around any area of construction work, immediately after clearing and prior to the commencement of construction in that area, so as to prevent Koalas entering any area where construction is taking place. The Koala exclusion fencing around any construction area must remain in place until all construction activities within that fenced construction area are completed;
 - d. Implement measures to prevent dogs from entering the development area during clearing and construction to minimise the risk to Koalas of predation by domestic dogs at the development area and adjacent conservation areas. Such measures must include (but are not limited to) prohibition of workers bringing animals in to the development area;
 - e. Implement traffic calming measures and ensure that the speed of all vehicles on construction roads in the **development area** is no greater than 40 km/h at any time (except an emergency) so as to minimise the risk to **Koalas** of vehicle strike;
 - f. Construct roads consistent with Queensland's fauna sensitive road design guidelines to minimise the risk to Koalas of vehicle strike. In particular, on roads flanking adjacent conservation areas or waterways, or which cross waterways, vehicle speeds must be limited to 50 km/h, and safe fauna movement solutions, fauna exclusion/koala proof fencing and local traffic management measures must be implemented; and
 - g. Install prominent Koala awareness signage consistent with Queensland's wildlife signing guidelines prior to opening to motorists, any road where the presence of animals along the road path is well-known or expected, such as on roads flanking adjacent conservation areas or adjacent to fauna movement solutions.

Environmental Offset Requirements

- 3. To compensate for the **clearing** of 57.03 hectares of **Koala habitat** and **Grey-headed Flying-fox foraging habitat**, the approval holder must:
 - a. Legally secure a minimum of 132 hectares at The Meads offset site prior to undertaking any clearing at the development area;
 - b. Within 20 business days of legally securing The Meads offset site, provide the Department with written evidence demonstrating that The Meads offset site has been legally secured (e.g. legal security documentation), and the shapefiles of the offset attributes;

- c. Limit uses and permissible activities at **The Meads offset site** such that the value of **The Meads offset site** as **Koala habitat** and **Grey-Headed Flying-fox foraging habitat** cannot lawfully be reduced.
- 4. Within 6 months from the date of this approval, the approval holder must complete baseline surveys of the entire area at **The Meads offset site**. The baseline surveys must be conducted by a **suitably qualified field ecologist** in accordance with a scientifically valid, robust, and repeatable methodology and include details of the:
 - a. Vegetation condition attributes for each Regional Ecosystem;
 - b. Number and condition of **Grey-Headed Flying-fox** foraging species in each quarter (25%) of **The Meads offset site**;
 - c. Extent of weed cover;
 - d. Number of non-native predators and non-native herbivores; and
 - e. Rate of Koala mortalities attributable to non-native predators.
- 5. Within 3 months of completion of the baseline surveys required under condition 4, the approval holder must publish on the **website** and provide to the **Department** a report detailing the results of the baseline surveys required under condition 4 (including survey methodology and dates).
- 6. For the protection of the Koala (and Koala habitat) and the Grey-headed Flying-fox (and Grey-headed Flying-fox foraging habitat), the approval holder must achieve the following outcomes at The Meads offset site by the end of year 1:
 - a. Repair and maintain the existing perimeter fencing to exclude all livestock from **The Meads** offset site;
 - b. Remove all barbed-wire fencing at **The Meads offset site**, excluding existing **perimeter barbed-wire fencing**; and
 - c. Increase the visibility to fauna of **perimeter barbed-wire fencing**, including by affixing visibility tags at every 30 cm interval along the top strand of **perimeter barbed-wire fencing**.
- 7. For the protection of the Koala (and Koala habitat) and the Grey-headed Flying-fox (and Grey-headed Flying-fox foraging habitat), the approval holder must achieve the following outcomes at The Meads offset site by the end of year 8:
 - a. Restore vegetation condition to the 'BioCondition Benchmarks to be achieved' for each **Regional Ecosystem**, as specified at <u>Attachment A</u>;
 - Ensure that at least 6 different Grey-Headed Flying-fox foraging species (which in combination must provide annual winter and spring foraging resources for the Grey-headed Flying-fox) occurs within each quarter (25%) of The Meads offset site;
 - c. Ensure that the extent of weed cover across the whole of The Meads offset site is less than 5%;
 - d. A reduction in the numbers of **non-native predators** and **non-native herbivores** by 90%, relative to the numbers identified during baseline surveys; and
 - e. A reduction in the rate of **Koala** mortalities attributable to **non-native predators** by 90%, relative to the numbers identified during baseline surveys.
- 8. Once achieved, environmental outcomes specified under conditions 6 and 7 must be maintained for the remainder of the period of effect of the approval.
- 9. For the protection of the **Spotted-tail Quoll** present at **The Meads offset site**, the approval holder must ensure that any use of 1080 baits at **The Meads offset site** is undertaken in accordance with the **Administrative Guidelines on the use of 1080**.

- 10. The approval holder must engage a **suitably qualified independent expert** to undertake an assessment of **The Meads offset site** at the end of **year 4** to assess whether the outcomes required in conditions 6, 7 and 8 have been, or are likely to be, achieved. The findings of the assessment must be **published** within 6 months of the end of **year 4** and be provided to the **Department** within 5 **business days** of being **published**.
- 11. If, at any time during the period of effect of the approval, the **Minister** is not satisfied that any of the requirements or outcomes required under conditions 6, 7 and 8 have been or are likely to be achieved or maintained, the **Minister** may require the approval holder to submit a corrective action plan for **The Meads offset site** for the **Minister's** approval, or to monitor, manage, avoid, mitigate, offset, record and/or report on, impacts to the **Koala**, the **Grey-headed Flying-fox**, or the **Spotted-tail Quoll**.
 - a. The **Minister** may set a timeframe in which the corrective action plan must be submitted, and may specify that the corrective action plan must be prepared or reviewed by an **independent** suitably qualified field ecologist.
 - b. If the **Minister** approves the corrective action plan, the approval holder must implement the approved corrective action plan.

Part B – Standard administrative conditions

Notification of date of commencement of the action

12. The approval holder must notify the **Department** in writing of:

- a. the date of **commencement of the action** within 5 **business days** after the date of **commencement of the action**;
- b. the date of commencement of **clearing** within 5 **business days** after the date of commencement of **clearing**; and
- c. the date of commencement of **construction** within 5 **business days** after the date of commencement of **construction**.
- 13. If the **commencement of the action** does not occur within 5 years from the date of this approval, then the approval holder must not undertake **commencement of the action** without the prior written agreement of the **Minister**.

Compliance records

14. The approval holder must maintain accurate and complete **compliance records**.

15. If the **Department** makes a request in writing, the approval holder must provide electronic copies of **compliance records** to the **Department** within the timeframe specified in the request.

Note: Compliance records may be subject to audit by the **Department** or an independent auditor in accordance with section 458 of the **EPBC Act**, and or used to verify compliance with the conditions. Summaries of the result of an audit may be published on the **Department's** website or through the general media.

Annual compliance reporting

- 16. The approval holder must prepare a **compliance report** for each 12 month period following the date of **commencement of the action**, or otherwise in accordance with an annual date that has been agreed to in writing by the **Minister**. The approval holder must:
 - a. publish each **compliance report** on the **website** within 60 **business days** following the relevant 12 month period;
 - notify the **Department** by email that a **compliance report** has been published on the **website** and provide the weblink for the **compliance report** within 5 **business days** of the date of publication;
 - c. keep all compliance reports publicly available on the website until this approval expires;

- d. exclude or redact **sensitive ecological data** from **compliance reports** published on the **website**; and
- e. where any sensitive ecological data has been excluded from the version published, submit the full compliance report to the Department within 5 business days of publication.

Note: Compliance reports may be published on the Department's website.

Reporting non-compliance

- 17. The approval holder must notify the **Department** in writing of any: **incident**; or non-compliance with the conditions. The notification must be given as soon as practicable, and no later than 2 **business days** after becoming aware of the **incident** or non-compliance. The notification must specify:
 - a. any condition which is or may be in breach;
 - b. a short description of the incident and/or non-compliance; and
 - c. the location (including co-ordinates), date, and time of the incident and/or non-compliance.
 In the event the exact information cannot be provided, provide the best information available.
- 18. The approval holder must provide to the **Department** the details of any **incident** or noncompliance with the conditions as soon as practicable and no later than 10 **business days** after becoming aware of the **incident** or non-compliance, specifying:
 - a. any corrective action or investigation which the approval holder has already taken or intends to take in the immediate future;
 - b. the potential impacts of the incident or non-compliance; and
 - c. the method and timing of any remedial action that will be undertaken by the approval holder.

Independent audit

- 19. The approval holder must ensure that **independent audits** of compliance with the conditions are conducted as requested in writing by the **Minister**.
- 20. For each independent audit, the approval holder must:
 - a. provide the name and qualifications of the independent auditor and the draft audit criteria to the **Department**;
 - b. only commence the **independent audit** once the audit criteria have been approved in writing by the **Department**; and
 - c. submit an audit report to the **Department** within the timeframe specified in the approved audit criteria.
- 21. The approval holder must publish the audit report on the **website** within 10 **business days** of receiving the **Department's** approval of the audit report and keep the audit report **published** on the **website** until the end date of this approval.

Completion of the action

22. Within 30 days after the **completion of the action**, the approval holder must notify the **Department** in writing and provide **completion data**.

Part C - Definitions

In these conditions, except where contrary intention is expressed, the following definitions are used:

Adjacent conservation area/s means areas adjacent to the development area, which have been designated for conservation purposes under the Springfield Structure Plan, and the White Rock–Spring Mountain Conservation Estate.

Administrative Guidelines on the use of 1080 means Department of the Environment and Heritage 2004, Administrative Guidelines on Significance: Supplement for the Tiger Quoll (southeastern mainland population) and the use of 1080, Commonwealth of Australia, or subsequent published revision.

Business day means a day that is not a Saturday, a Sunday or a public holiday in the state or territory of the action.

Clear/Clearing means the cutting down, felling, thinning, logging, removing, killing, destroying, poisoning, ringbarking, uprooting or burning of vegetation (but not including weeds – see the *Australian weeds strategy 2017 to 2027* for further guidance). **Clearing** does not include any relevant prescribed burns or actions undertaken for bushfire management, where required.

Commencement of the action means the first instance of any specified activity associated with the action including **clearing**, **construction** and/or **management activities** at **The Meads offset site**. **Commencement of the action** does not include minor physical disturbance necessary to:

- i. undertake pre-clearance surveys or monitoring programs;
- ii. install signage and /or temporary fencing to prevent unapproved use of the project area so long as these are located where it will have no impact on the **protected matters**;
- iii. protect environmental and property assets from fire, weeds and feral animals, including use of existing surface access tracks;
- iv. install temporary site facilities for persons undertaking pre-commencement activities so long as these are located where they have no impact on the **protected matters**; and
- v. undertake soil sampling or geotechnical investigations provided these cause only minor physical disturbance and are required in advance of formal commencement of site works.

Completion data means an environmental report and spatial data clearly detailing how the conditions of this approval have been met. The **Department's** preferred spatial data format is **shapefile**.

Completion of the action means the time at which all approval conditions (except condition 22) have been fully met.

Compliance records means all documentation or other material in whatever form required to demonstrate compliance with the conditions of approval in the approval holder's possession or that are within the approval holder's power to obtain lawfully.

Compliance reports means written reports:

- i. providing accurate and complete details of compliance, **incidents**, and non-compliance with the conditions;
- ii. consistent with the Department's Annual Compliance Report Guidelines (2014); and
- iii. include a **shapefile** of any clearance of any **protected matters**, or their habitat, undertaken within the relevant 12 month period.

Construction means the erection of a building or structure that is or is to be fixed to the ground and wholly or partially fabricated on-site; the alteration, maintenance, repair or demolition of any building or structure; preliminary site preparation work which involves breaking of the ground (including pile driving); the laying of pipes and other prefabricated materials in the ground, and any associated excavation work; but excluding the installation of temporary fences and signage.

Department means the Australian Government agency responsible for administering the **EPBC Act**.

Development area means the area designated as 'Referral Area' on the map at <u>Attachment B</u> and enclosed by a thick black border.

EPBC Act means the Environment Protection and Biodiversity Conservation Act 1999 (Cth).

Extent of weed cover means the proportion (expressed as a percentage) of the total land area in which any square metre contains a non-native plant species known to restrict the movement of **Koala** and/or degrade the quality of **Koala habitat** and/or habitat for **Grey-headed Flying-fox**, or its ability to regenerate. Such non-native plant species include *Lantana camera* and *Ligustrum lucidum*.

Fauna exclusion/koala proof fencing means fencing to guide **Koalas** away from roads and/or guide them towards safe fauna movement structures (such as underpasses) as described in *Fauna Sensitive Road Design: Volume 2 – Preferred Practices* (Queensland Department of Main Roads 2010).

Fauna spotter/catcher means a person licenced under the Queensland *Nature Conservation Act 1992* to detect, capture, care for, assess, and release wildlife disturbed by vegetation clearance activities.

Grey-Headed Flying-fox means the Grey-Headed Flying-fox (*Pteropus poliocephalus*) listed as a threatened species under the **EPBC Act**.

Grey-Headed Flying-fox foraging habitat means areas of vegetation that contain **Grey-headed Flyingfox** foraging trees, including winter and spring flowering species.

Incident means any event which has the potential to, or does, impact on one or more **protected matter(s)**.

Independent means does not have any individual, or by employment or family affiliation, conflicting or competing interests with the approval holder; the approval holder's staff, representatives or associated persons; or the project, including any personal, financial, business or employment relationship, other than receiving payment for undertaking the role for which the condition requires and independent person.

Independent audit means an audit conducted by an **independent** and suitably qualified person as detailed in the *Environment Protection and Biodiversity Conservation Act 1999 Independent Audit and Audit Report Guidelines* (2019).

Koala means the Koala *Phascolarctos cinereus* (combined populations of Queensland, New South Wales and the Australian Capital Territory) listed as a threatened species under the **EPBC Act**.

Koala exclusion fencing means fencing which prevents the movement of koalas from one area to another. Suitable examples are found in *Koala Sensitive Design Guideline: A guide to koala sensitive designed measures for planning and development activities, (Queensland Department of Environment and Heritage Protection, 2012) and in the Koala referral guidelines.*

Koala food trees means a species of tree of genus *Angophora, Corymbia, Eucalyptus, Lophostemon* or *Melaleuca,* with a height of more than 4 metres or with a trunk circumference more than 31.5 centimetres at 1.3 metres above the ground, the leaves of which are known to be consumed by the **Koala**.

Koala habitat means any forest or woodland containing species that are known Koala food trees, or shrubland with emergent food trees (as defined in the Koala referral guidelines).

Koala referral guidelines means the **Department's** *EPBC Act referral guidelines for the vulnerable* Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory), Commonwealth of Australia, 2014.

Legally secure/ed/ing means to provide ongoing conservation protection on the title of the land, under a voluntary declaration under the *Vegetation Management Act 1999* (Qld).

Legal security documentation means any documentation associated with **legally securing the Meads offset site**, including (but not limited to) associated management plans (for example, the Declared Area Management Plan to support the voluntary declaration under the *Vegetation Management Act 1999* (Qld)). **Legal security documentation** must include (at a minimum) the following:

- i. Details of the **management activities** to be undertaken to achieve the outcomes prescribed under conditions 6 and 7; and
- ii. A commitment to achieve and maintain the outcomes prescribed under conditions 6 and 7 for the duration of the impact.

Local traffic management measures means devices that reduce the speed and/or volume of traffic, for example, road closures, chicanes, crosswalks, lighting, signage and rumble strips, as described in **Queensland's fauna sensitive road design guidelines**.

Management activities means activities to be undertaken at The Meads offset site, including (but not limited to):

- i. Baseline surveys to inform development and implementation of management measures to achieve outcomes;
- ii. Perimeter fencing repairs and maintenance;
- iii. Barbed-wire fencing removal and modification;
- iv. Weed management; or
- v. Non-native predator and/or non-native herbivore management.

Minister means the Australian Government Minister administering the **EPBC Act** including any delegate thereof.

Non-native predators means any non-native animals known to predate on the Koala.

Non-native herbivores means any non-native animals known to degrade the quality of **Koala habitat** and/or **Grey-headed Flying-fox foraging habitat** and/or prevent its ability to regenerate.

Offset attributes means an '.xls' file capturing relevant attributes of The Meads offset site, including:

- i. EPBC Act reference number
- ii. Physical address of The Meads offset site;
- iii. Coordinates of the boundary points in decimal degrees;
- iv. Protected matters that the offset compensates for;
- v. Any additional **EPBC Act** listed threatened species and communities that are benefiting from the offset; and
- vi. Size of The Meads offset site in hectares.

Perimeter barbed-wire fencing means existing barbed-wire along the north, east and south perimeter of **The Meads offset site** erected to manage livestock.

Protected matter means a matter protected under a controlling provision in Part 3 of the **EPBC Act** for which this approval has effect.

Publish means make publicly available on the website for the duration of this approval.

Queensland's fauna sensitive road design guidelines means Queensland Department of Main Roads 2010, *Fauna Sensitive Road Design. Volume 2 – Preferred Practices*, or subsequent published revision.

Queensland's wildlife signing guidelines means Queensland Department of Transport and Main Roads 2019, *Traffic and Road Use Management, Transport and Main Roads Volume 3 – Signing and Pavement Marking, Part 8: Wildlife Signing Guidelines*, or subsequent published revision.

Regional Ecosystem means a vegetation community in a bioregion that is consistently associated with a particular combination of geology, landform and soil as classified by the Queensland Government under the *Vegetation Management Act 1999* (Qld). **Regional Ecosystems** at **The Meads offset site** include RE 12.3.7, RE 12.8.14, RE 12.9-10.17c, RE 12.9-10.14b, RE 12.12.2 and RE 12.12.23, located as shown on the map at <u>Attachment D</u>.

Safe fauna movement solutions means measures to minimise the risk of injury or deaths of Koalas during construction and subsequently, such as fauna exclusion/koala proof fencing, fauna underpasses or overpasses, and/or bridges as described in Queensland's fauna sensitive road design guidelines.

Sensitive ecological data means data as defined in the Australian Government Department of the Environment (2016) *Sensitive Ecological Data – Access and Management Policy V1.0*.

Sequential clearing means the conditions for *Sequential clearing in Koala district A or B* under the *Nature Conservation (Koala) Conservation Plan 2017* under the *Nature Conservation Act 1992* (Qld). The conditions include provisions for the amount of area which may be **cleared** in any one stage, periods of non-**clearing** between stages, maintaining habitat links and restrictions on **clearing** trees containing **Koalas**.

Shapefile means location and attribute information of the action provided in an ESRI shapefile format. Shapefiles must contain '.shp', '.shx', '.dbf' files and a '.prj' file that specifies the projection/geographic coordinate system used. Shapefiles must also include an '.xml' metadata file that describes the shapefile for discovery and identification purposes.

Spotted-tail Quoll means the Spotted-tail Quoll (*Dasyurus maculatus maculatus*) (southeastern mainland population) listed as a threatened species under the **EPBC Act**.

Suitably qualified field ecologist means a person who has professional qualifications and at least 3 years' work experience designing and implementing flora and fauna surveys and management plans for the **Koala** and/or the **Grey-headed Flying-fox** using relevant protocols, standards, methods and/or literature.

Suitably qualified independent expert means an **independent** person who has professional qualifications, training, skills and at least 5 years' experience in the nominated subject matter and can give authoritative independent assessment, advice and analysis on performance relative to the subject matter using the relevant protocols, standards, methods and/or literature.

The Meads offset site means the area to be managed as an offset for the impacts on the **Koala habitat** and **Grey-headed Flying-fox foraging habitat**, situated at Lot 18 on CA31460 at Pipeclay Dip Road, Ravensbourne, Queensland, and shown as 'Offset Area' and shaded in yellow on the map at <u>Attachment C</u>.

Vegetation condition attributes means attributes that indicate vegetation functions for biodiversity, as defined in the most recent officially released version of *Queensland's BioCondition Assessment Manual*.

Website means a set of related web pages located under a single domain name attributed to the approval holder and available to the public.

Year 1 means the period within 1 year from the date of this approval.

Year 4 means the period within 4 years from the date this of approval.

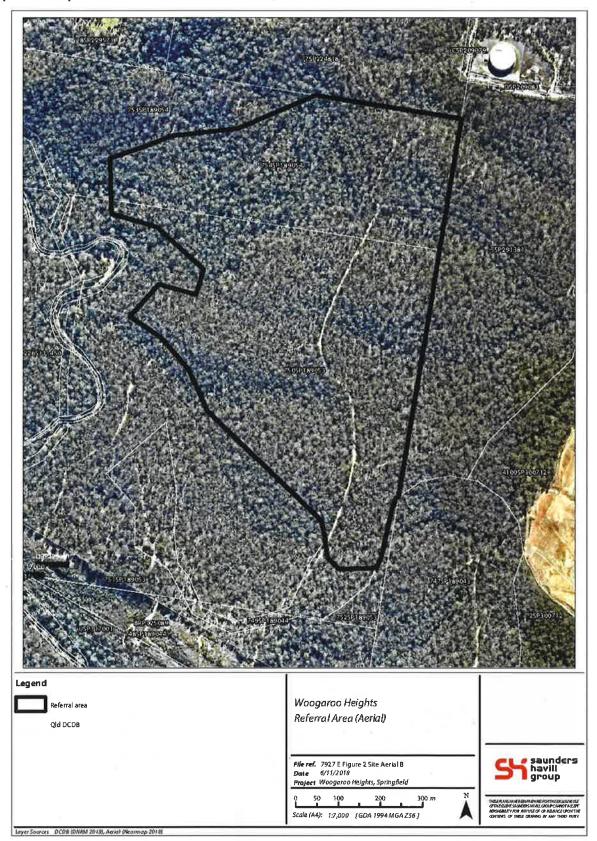
Year 8 means the period within 8 years from the date of this approval.

Attachment A

BioCondition	Regional Ecosystem								
Benchmarks to be achieved	RE 12.3.7	RE 12.8.14	RE 12.9-10.14b	RE 12.9-10.17c	RE 12.12.2	RE 12.12.23			
Tree canopy median height (m)	16	22	32	24	33	25			
Tree canopy cover (%)	30	60	55	57	59	56			
Tree sub-canopy median height (m)	11	11	17	11	13	12			
Tree sub-canopy cover (%)	30	15	25	33	10	10			

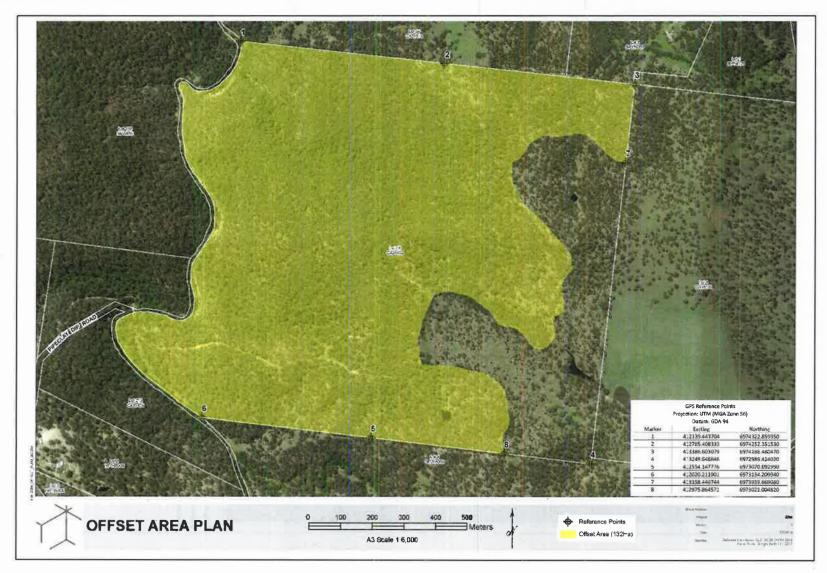
BioCondition Benchmarks for Regional Ecosystems at the Meads offset site

Map – Development area – aerial

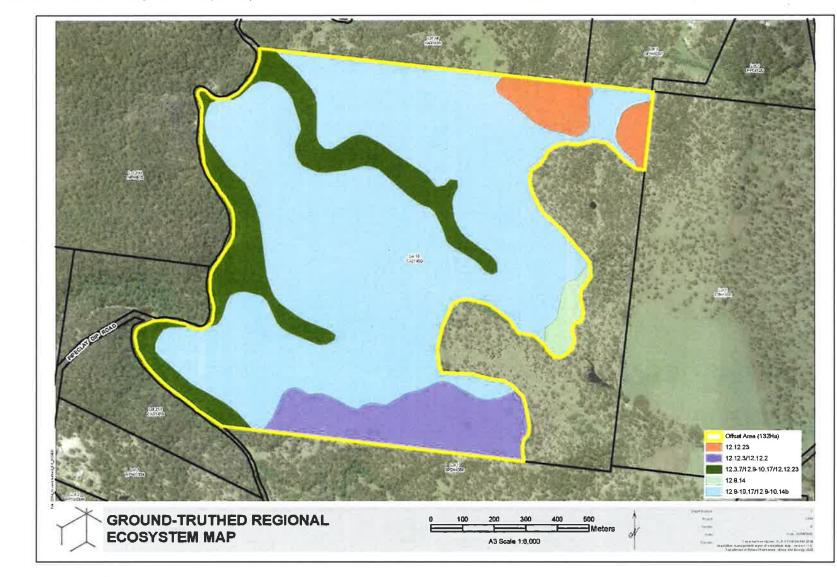


Attachment C

Map – The Meads offset site – aerial

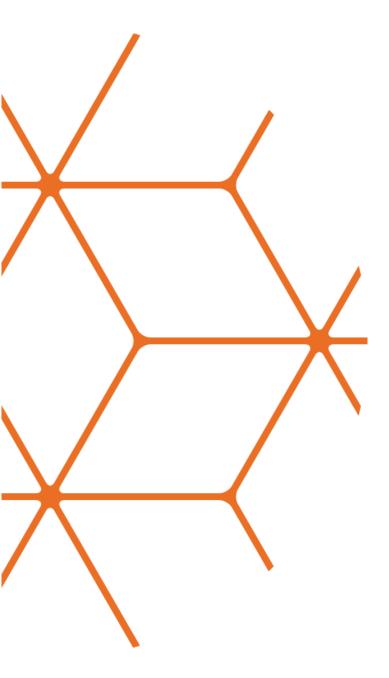


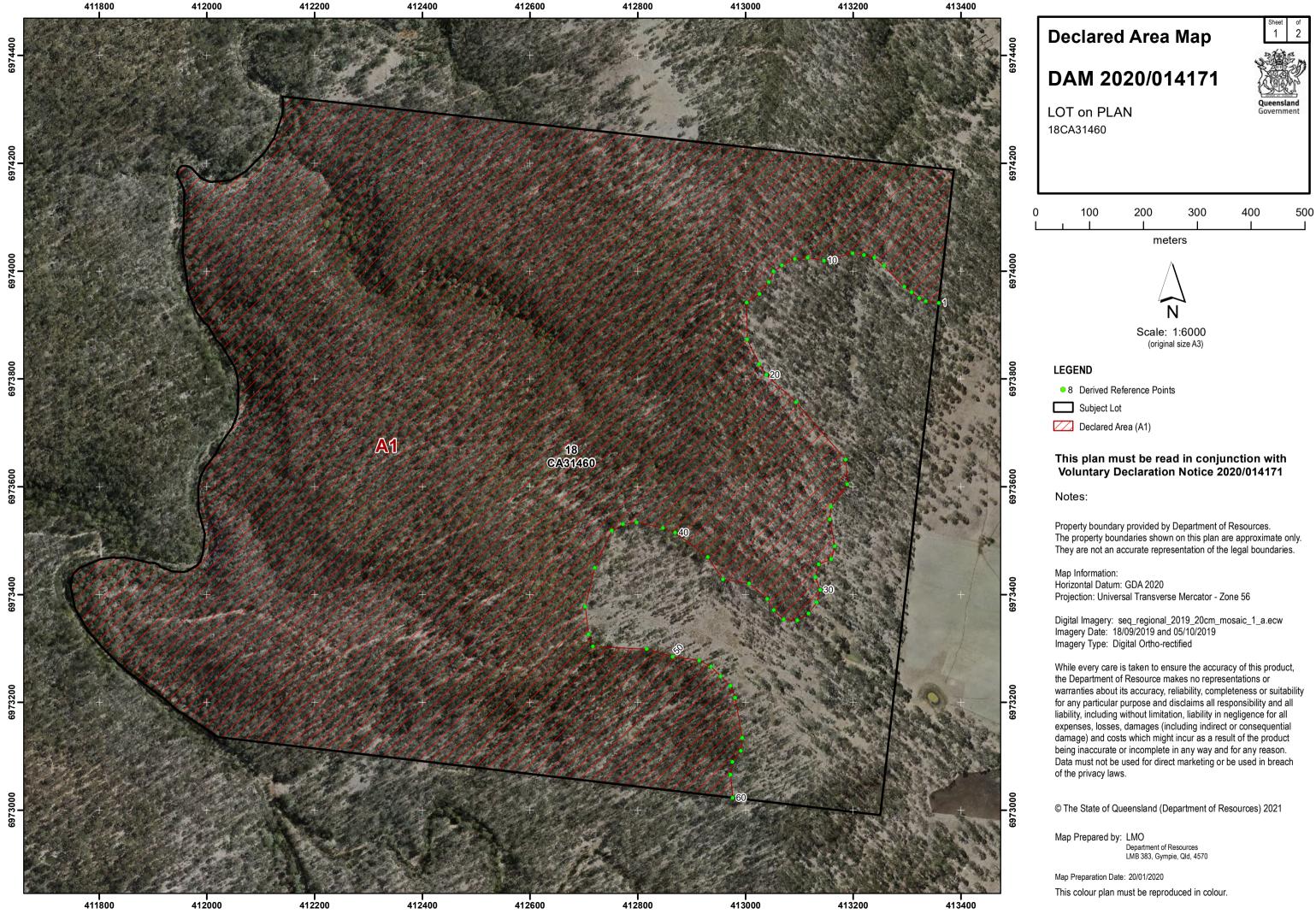
Attachment D



Map – The Meads offset site – Regional Ecosystems

APPENDIX C Declared Area Map





Derived Reference Points

These reference points are provided by the Department of Resources and may be used to assist in locating areas delineated on this plan. All reference points continue sequentially when labels not shown. Horizontal Datum is GDA 2020 Coordinates are in Map Grid of Australia (MGA) - Zone 56

Area	Point	Easting	Northing
A1	1	413359	6973941
A1	2	413335	6973944
A1	3	413323	6973950
A1	4	413309	6973961
A1	5	413295	6973971
A1	6	413257	6974010
A1	7	413239	6974025
A1	8	413220	6974030
A1	9	413199	6974033
A1	10	413146	6974020
A1	11	413116	6974025
A1	12	413092	6974023
A1	13	413068	6974011
A1	14	413052	6973999
A1	15	413044	6973980
A1	16	413026	6973958
A1	17	413002	6973942
A1	18	413003	6973873
A1	19	413025	6973828
A1	20	413039	6973807

Area	Point	Easting	Northing
A1	21	413094	6973757
A1	22	413186	6973651
A1	23	413189	6973604
A1	24	413159	6973563
A1	25	413157	6973539
A1	26	413166	6973490
A1	27	413159	6973465
A1	28	413136	6973456
A1	29	413130	6973432
A1	30	413139	6973409
A1	31	413132	6973385
A1	32	413117	6973365
A1	33	413096	6973352
A1	34	413071	6973354
A1	35	413053	6973371
A1	36	413041	6973392
A1	37	413007	6973420
A1	38	412958	6973429
A1	39	412930	6973470
A1	40	412870	6973515

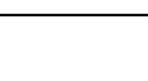
Area	Point	Easting	Northing
A1	41	412847	6973524
A1	42	412798	6973534
A1	43	412773	6973530
A1	44	412752	6973519
A1	45	412720	6973450
A1	46	412703	6973378
A1	47	412709	6973326
A1	48	412717	6973304
A1	49	412817	6973299
A1	50	412865	6973285
A1	51	412914	6973278
A1	52	412936	6973266
A1	53	412954	6973249
A1	54	412973	6973231
A1	55	412981	6973209
A1	56	412994	6973134
A1	57	412992	6973110
A1	58	412976	6973090
A1	59	412972	6973066
A1	60	412976	6973023



DAM 2020/014171

LOT on PLAN





2

This plan must be read in conjunction with Voluntary Declaration Notice 2020/014171

Notes:

While every care is taken to ensure the accuracy of this product, the Department of Resource makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability, including without limitation, liability in negligence for all expenses, losses, damages (including indirect or consequential damage) and costs which might incur as a result of the product being inaccurate or incomplete in any way and for any reason. Data must not be used for direct marketing or be used in breach of the privacy laws.

© The State of Queensland (Department of Resources) 2021

Map Prepared by: LMO Department of Resources LMB 383, Gympie, Qld, 4570

Map Preparation Date: 20/01/2021 This colour plan must be reproduced in colour.

APPENDIX D Site Photographs

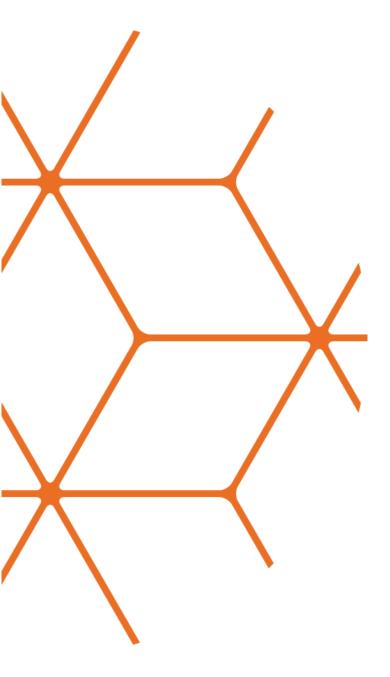




PHOTO NO. 1 – CAMERA TRAP AT SITE C1





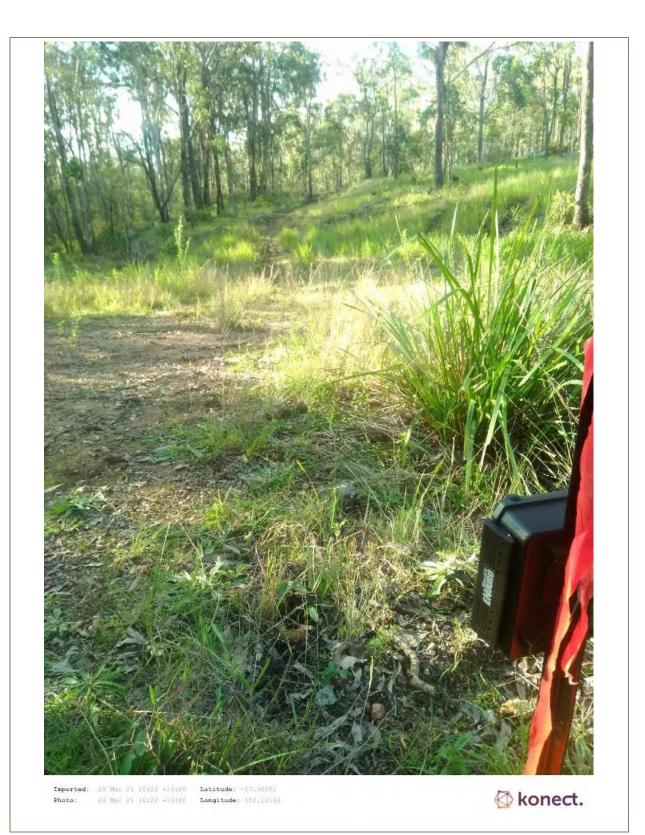


PHOTO NO. 2 – CAMERA TRAP AT C3





PHOTO NO. 3 – SITE T1 LOOKING S FROM 100M







PHOTO NO. 4 - SITE T2 AT 100M







PHOTO NO. 5 – ALONG TRANSECT OF T2. NOTE EVIDENCE OF HISTORIC LOGGING





PHOTO NO. 6 - T3 FROM 100M







PHOTO NO. 7 – T4 AT 100M







PHOTO NO. 8 – T5 AT 100M



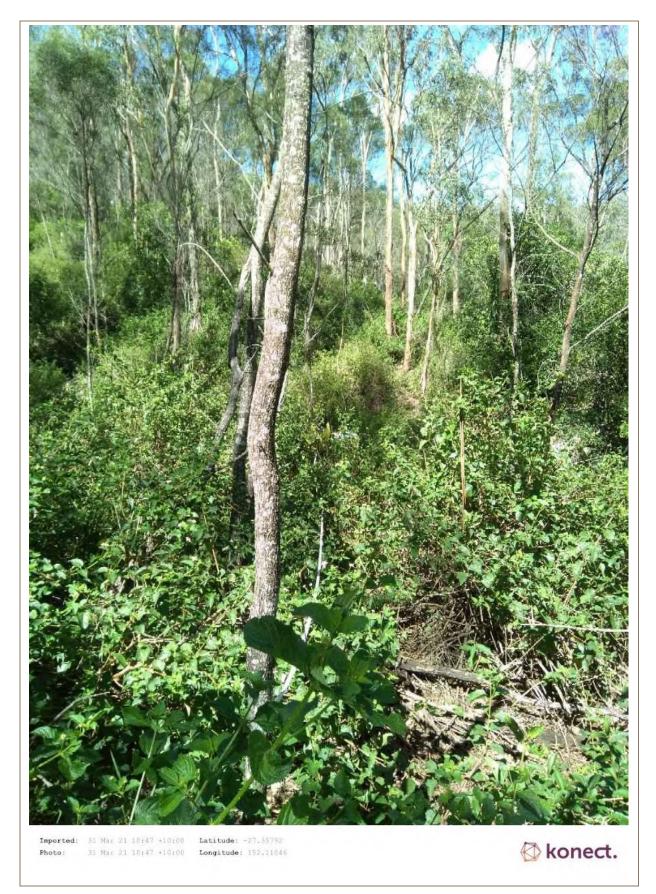


PHOTO NO. 9 - T6 AT 50M LOOKING TO 0M





PHOTO NO. 10 - T6 AT 100M





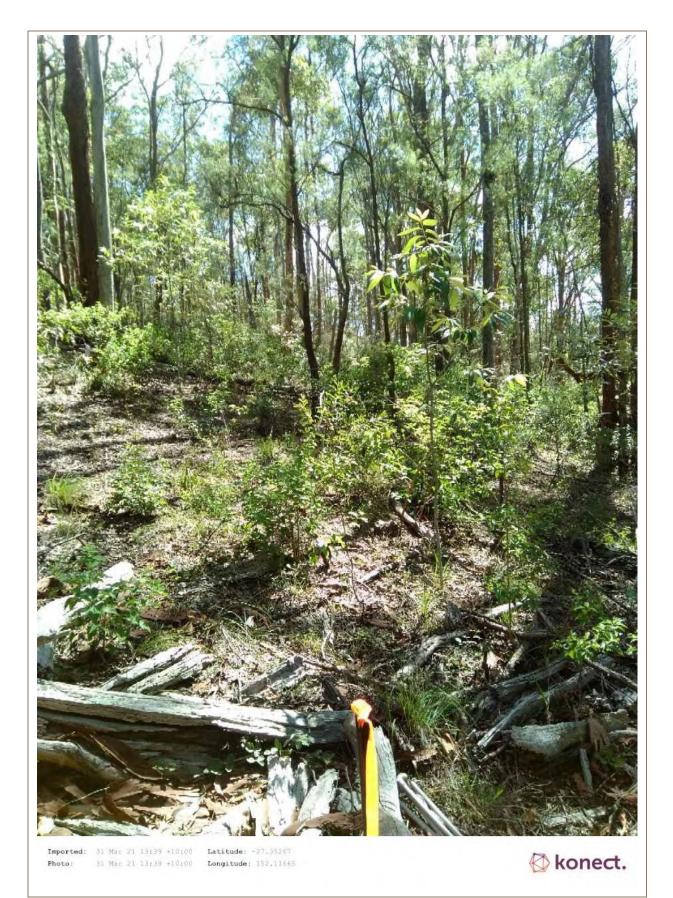


PHOTO NO. 11 - T7 AT 0M





PHOTO NO. 12 - T8 FROM 100M





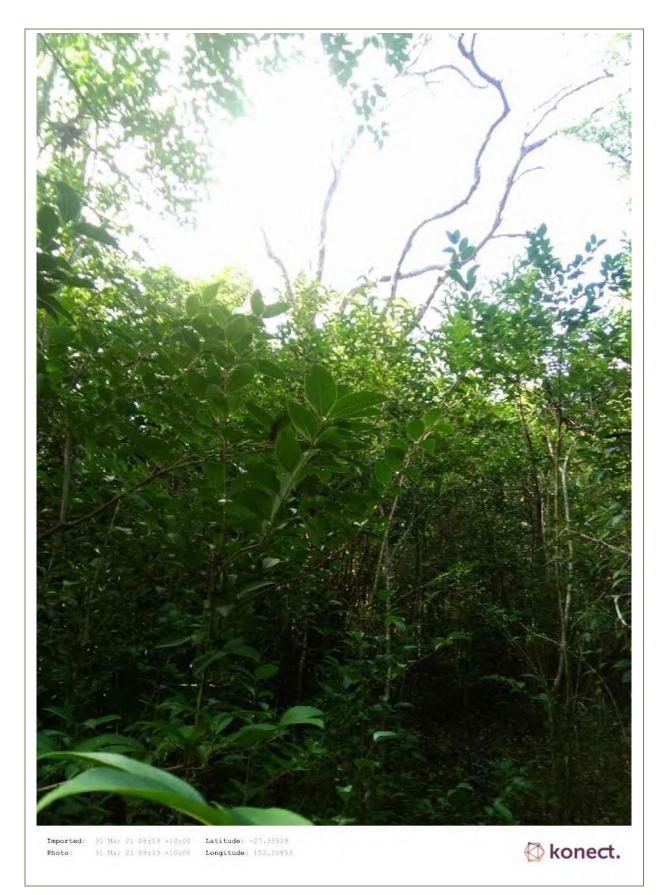


PHOTO NO. 13 - T9 INTO BROAD LEAVED PRIVET THICKET





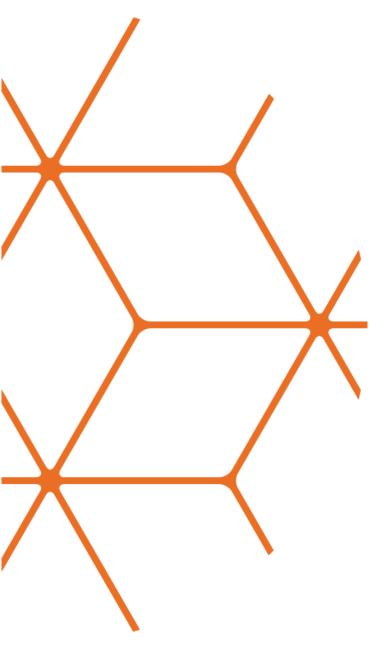
PHOTO NO. 14 – REPRESENTATIVE LANTANA CAMARA THICKET AT SITE O4

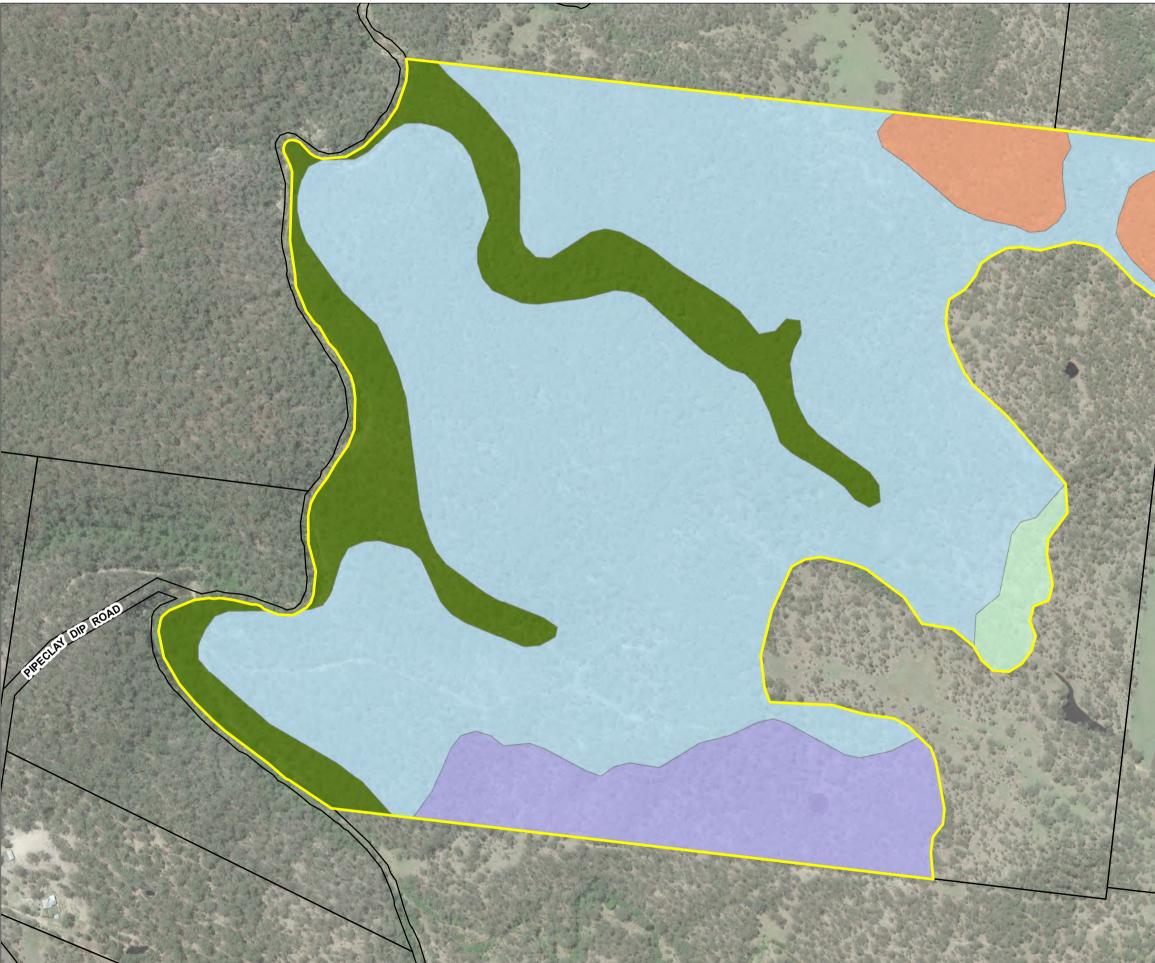




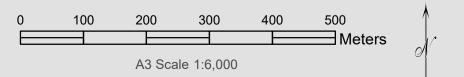
PHOTO 15 – REPRESENTATIVE SCAT AND SCRATCHES AT T4

APPENDIX E Regional Ecosystem Map









Offset Area (132Ha)
12.12.23 (5.4 Ha)
12.12.3/12.12.2 (13.0 Ha)
12.3.7/12.9-10.17/12.12.23 (17.8 Ha)
12.8.14 (2.0 Ha)
12.9-10.17/12.9-10.14b (93.7 Ha)

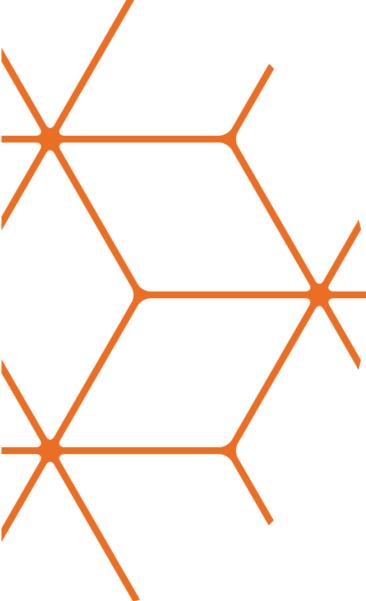
Project: Version: Date: Sources: 1

-10

Date: 21/07/2021

Cadastral boundaries: QLD DCDB DNRM 2021 Aerial Photo: Google Earth 11/1/2017 getation management regional ecosystem map - version 11.0: Department of Natural Resources, Mines and Energy 2020

APPENDIX F BioCondition & Habitat Quality Site Assessment Data



 all environmental offset applications you must: Complete form (Environmental Offsets Delivery Complete any other forms relevant to your app 				PLEASE NOTE - Y	ELLOW INDICATES A	N AUTO POPULATED FIELD
 Provide the mandatory supporting information 	olication		r application			
nis form is useful for undertaking a habitat quality analy ease note that this form should be completed individual	rsis of an impact and/or offse	t/advanced offset site.				
Is this Assessment for:	An Impact Site		An Offset Site		an Advanced Offset Site	
		Habitat Quality Assessm	nent Unit Score Shee	t		
art A - Administrative Case reference		1		Project Name		
art B – Nominated Approach (FOR IMPACT SITE ONLY)						
ease Select Your Nominated approach:		Rapid approach		Standard Approach		
i) Rapid Assessment					(ENTER BVG FROM DRO	P-DOWN LIST BELOW)
Enter BVG:					Presumed HQ Equals	
ii) Standard Assessment					(COMPLETE REMAINDE	R OF FORM)
art C - Site Data Property		Meads		Date	20/2/21	
Property Assessment Unit:	Assessment U		RE	Date	30/3/21 Bioregion	Number
Assessment Unit:	2		12.8.14		Southeast Q	
Landscape Photo- Please attach or insert	t north, south, east and west p	photos in the spaces provided fron	n row 231-355 below a	and include details such	as Time and Mapping Coordi	nates in the following row.
		Zone			asting	Northing
atum IGS 84 DA 94	0m Mark	56 Zone		15	2.1216 asting	-27.3596 Northing
Plot bearing	50m Mark	56		Recorders		BC
Part D - Native Species Richness: (*list species below)						
otal number of species		Tree species	richness:	4		
		Tree species Eucolyptus melliodoro Eucolyptus crebro	richness:	4 Common Name Common Name		
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stal number of species Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name		Eucalyptus melliodora Eucalyptus crebro Eucalyptus tereticornis Angophora subveiltina Brachychiton populneus		Common Name Common Name Common Name Common Name Common Name Common Name Common Name		
tal number of species Scientific Name Scientific Name		Eucalyptus melliodora Eucalyptus crebra Eucalyptus tereticomis Angophora subveitina Brachychiton populneus Brachychiton populneus Shrub specie		Common Name Common Name Common Name Common Name Common Name Common Name Common Name Common Name		
tal number of species Scientific Name Scientific Name		Eucolyptus melliodora Eucolyptus crebra Eucolyptus tereticornis Angaphra subvelutian Brachychiton populneus Shrub specie Alphitonia excelsa Allocasuarina tarulosa		Common Name Common Name Common Name Common Name Common Name Common Name Common Name 3 Common Name Common Name		
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tal number of species Scientific Name		Eucalyptus melliodora Eucalyptus crebro Eucalyptus teretičcornis Angophora subvelutina Brachychiton populneus Shrub specie Alphitonia excelsa Allocasuarina torulosa Acacia fimbriata	s richness:	Common Name Common Name		
tal number of species Scientific Name Scientif		Eucolyptus melliodora Eucolyptus crebro Eucolyptus tereticornis Angophora subveltina Brachychiton populneus Brachychiton populneus Shrub specie Alphitonia excetsa Allocasuarina torulosa Acocia fimbriata	s richness:	Common Name Common Name		
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Total number of species Scientific Name							
		Breynia oblongifolia					
Scientific Name Scientific Name		Gahnia aspera Solanum stelligerum		Common Name Common Name			
Scientific Name		Dianella caerulea		Common Name			
Scientific Name Scientific Name		Hardenbergia violacea Eustrephus latifolius		Common Name Common Name			
Scientific Name		,		Common Name			
Part E - Non-Native Plant Cover: (*list species	s below)						
Total percentage cover within plot Scientific Name		Lantana camara		19.00% Common Name			
Scientific Name		Bidens pilosa		Common Name			
Scientific Name Scientific Name		Solanum nigrum Senna pendula		Common Name Common Name			
Scientific Name		Opuntia tomentosa		Common Name			
Scientific Name Scientific Name	6	Conyza sumatrensis comphocarpus physocarpus		Common Name Common Name			
Scientific Name		Hypochaeris radicata		Common Name			
Scientific Name Scientific Name		Ligustrum lucidium		Common Name Common Name			
Part F - Coarse Woody Debris: (*list lengths of i Total Length of Course Woody Debris (Mete				1130.00			
1		10.00		26			
2 3		5.00		27 28			
4		3.00		29			
5 6		20.00		30 31			
7		10.00		32			
8		5.00 15.00		33 34			
10		12.00		35			
11 12		11.00 7.00		36 37			
13		5.00		38			
14				39 40			
16				41			
17 18				42 43			
19				44			
20 21				45 46			
22				47			
23 24				48 49			
25				50			
Part G - Native perennial grass cover, organic li	litter: (*provide percentage cover with	in each quadrat, and provic	le average cover)				
Native perennial grass cover	Quadrat 1 0.00%	Quadrat 2 2.00%	Quadrat 3 5.00%	Quadrat 4 0.00%	Quadrat 5 0.00%	Averag 1.40%	ge
	0.00%	2.00%	5.00%	0.00%	0.00%	1.40%	ò
Organic Litter	Quadrat 1 80.00%	Quadrat 2 20.00%	Quadrat 3 10.00%	Quadrat 4 95.00%	Quadrat 5 90.00%	Averag 59.00	
	•		10.00%	55.00%	50.0070	55.007	
Part H- Number of large trees , tree canopy h				No. Frank			
Eucalypt Large tree DBH benchmark used	1:	44cm		Non- Eucalypt Large tree DBH benchmark used:		N/A	
Number of large eucalypt trees:		20		Number of large non		0	
Number of large eucatype trees.		20		eucalypt trees:		0	
Total Number Large Trees:				20			
	Canopy:	20.00	Sub-canopy:	20 6.00	Emergent:	0.00	
Total Number Large Trees: Median Tree Canopy Height Measurements	Canopy: ally dominant layer species regenerating:		Sub-canopy:		Emergent: 25	0.00	
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica	ally dominant layer species regenerating:		Sub-canopy:			0.00	
Total Number Large Trees: Median Tree Canopy Height Measurements	ally dominant layer species regenerating:		Sub-canopy: Sub-canopy:			0.00	
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part I - Tree canopy cover, Shrub canopy cover	ally dominant layer species regenerating:			6.00	25		
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part I - Tree canopy cover, Shrub canopy cover Tree canopy cover % Shrub canopy cover %	ally dominant layer species regenerating:	46.50%	Sub-canopy:	6.00 10.00% 12.00% e in the same layer and contin	25 Emergent:	0.00%	9
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part I - Tree canopy cover, Shrub canopy cover Tree canopy cover % Shrub canopy cover % Note: Only asse Part J - Site Context Score	r Canopy: Canopy: Canopy: Canopy: Canopy: Canopy: Canopy: Canopy:	46.50% endmark document stipulates tha Connectedness 4 - 77% or >500ha	Sub-canopy: t layers are present *If trees ar Context	6.00 10.00% 12.00% e in the same layer and contin Distance to Pe	25 Emergent: uous along the transect you can	0.00% group them	5 orridors
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part 1 - Tree canopy cover, Shrub canopy cover Tree canopy cover % Shrub canopy cover % Note: Only asse Part J - Site Context Score ATTRIBUTE	ally dominant layer species regenerating:	46.50% enchmark document stipulates tha	Sub-canopy: t layers are present *If trees ar	6.00 10.00% 12.00% e in the same layer and contin Distance to Pe 1 - 0	25 Emergent:	0.00% group them Ecological Cc	5 orridors
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part I - Tree canopy cover, Shrub canopy cover Tree canopy cover % Shrub canopy cover % Note: Only asse Part J - Site Context Score ATTRIBUTE DESCRIPTION SCORE DOES THIS ASSESSMENT UNIT ALSO CONT YES PLEASE COMPLETE SPECIES NO PLEASE ATTACH LANDSCAP	ally dominant layer species regenerating: r Canopy: ess Emergent (E) or Subcanopy (S) layers if the br Size of Patch Size of Patch S ->200ha 10	46.50% enchmark document stipulates the Connectedness 4 - >75% or >500ha connection 5 MENT. ND THEN ATTACH LANDS DIRECTED	Sub-canopy: t layers are present *if trees ar <u>Context</u> 4 - >75% remnant 5 SCAPE PHOTOS AND SL	6.00 10.00% 12.00% e in the same layer and contin Distance to Pe 1 - 0	25 Emergent: uous along the transect you car rmanent Water 500m	0.00% group them Ecological Cc <u>3- Within (whol</u>	5 orridors
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part I - Tree canopy cover, Shrub canopy cover Tree canopy cover % Shrub canopy cover % Part J - Site Context Score ATTRIBUTE DESCRIPTION SCORE DOES THIS ASSESSMENT UNIT ALSO CONT YES PLEASE COMPLETE SPECIES NO PLEASE ATTACH LANDSCAP at Attributes	ally dominant layer species regenerating: , Canopy: ess Emergent (E) or Subcanopy (5) layers if the be Size of Patch S->200ha 10 TAIN A SPECIES HABITAT REQUIREM S HABITAT INDEX DETAILS BELOW A PE PHOTOS BELOW AND SUBMIT AS	46.50% techmark document stipulates tha connectedness 4 - 575% or >500ha connection 5 AENT. ND THEN ATTACH LANDS DIRECTED Species Hat	Sub-canopy: Layers are present "If trees ar Context 4 - >75% remnant 5 SCAPE PHOTOS AND SL SCAPE PHOTOS AND SL Ditat Attributes	6.00 10.00% 12.00% e in the same layer and contin Distance to Pe 1 - 0 BBMIT AS DIRECTED	25 Emergent: uous along the transect you car rmanent Water 500m 0	0.00% group them <u>Ecological Cc</u> <u>3- Within (whol 6</u>	s srridors te or part).
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part I - Tree canopy cover, Shrub canopy cover Tree canopy cover % Shrub canopy cover % Note: Only asse Part J - Site Context Score ATTRIBUTE DESCRIPTION SCORE DOES THIS ASSESSMENT UNIT ALSO CONT YES PLEASE COMPLETE SPECIES NO PLEASE ATTACH LANDSCAP	ally dominant layer species regenerating: , , , , , , , , , , , , , , , , , , ,	46.50% enchmark document stipulates the Connectedness 4 - >75% or >500ha connection 5 MENT. ND THEN ATTACH LANDS DIRECTED	Sub-canopy: t layers are present *if trees ar <u>Context</u> 4 - >75% remnant 5 SCAPE PHOTOS AND SL	6.00 10.00% 12.00% e in the same layer and contin Distance to Pe 1 - 0	25 Emergent: uous along the transect you car rmanent Water 500m 0	0.00% group them Ecological Cc <u>3- Within (whol</u>	; prridors e or part)_ Species mobility capacity
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part I - Tree canopy cover, Shrub canopy cover Tree canopy cover % Shrub canopy cover % Note: Only asse Part J - Site Context Score ATTRIBUTE DESCRIPTION SCORE DOES THIS ASSESSMENT UNIT ALSO CONT YES PLEASE COMPLETE SPECIES NO PLEASE ATTACH LANDSCAP at Attributes	ally dominant layer species regenerating: , Canopy: ess Emergent (E) or Subcanopy (5) layers if the be Size of Patch S->200ha 10 TAIN A SPECIES HABITAT REQUIREM S HABITAT INDEX DETAILS BELOW A PE PHOTOS BELOW AND SUBMIT AS	46.50% techmark document stipulates tha connectedness 4 - 575% or >500ha connection 5 AENT. ND THEN ATTACH LANDS DIRECTED Species Hat	Sub-canopy: Layers are present "If trees ar Context 4 - >75% remnant 5 SCAPE PHOTOS AND SL SCAPE PHOTOS AND SL Ditat Attributes	6.00 10.00% 12.00% e in the same layer and contin Distance to Pe 1 - 0 BBMIT AS DIRECTED	25 Emergent: usus along the transect you car rmanent Water 500m 0 Quality and availability of	0.00% group them <u>Ecological Cc</u> <u>3 - Within (who)</u> <u>6</u> Quality and availability of	s prridors (e or part) Species mobility
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part I - Tree canopy cover % Shrub canopy cover % Shrub canopy cover % Part J - Site Context Score ATTRUUTE Description Score DOES THIS ASSESSMENT UNIT ALSO CONT YES PLEASE COMPLETE SPECIES NO PLEASE ATTACH LANDSCAP at Attributes	Ally dominant layer species regenerating:	46.50% exchmark document stipulates that connectedness 4 - 75% or >500ha connection 5 MENT. ND THEN ATTACH LANDS DIRECTED Species Hat NCA Status	Sub-canopy: Layers are present *if trees ar Context 4 ->75% remnant 5 SCAPE PHOTOS AND SL Ditat Attributes Attributes Description Score	6.00 10.00% 12.00% e in the same layer and contin Distance to Pe 1 - 0 IBMIT AS DIRECTED Threats to species	25 Emergent: wous along the transect you car rmanent Water 500m 0 Quality and availability of food and foraging habitat	0.00% group them <u>Ecological Cc</u> <u>3 - Within (who)</u> <u>6</u> Quality and availability of shelter	; prridors e or part) Species mobility capacity - Minor restriction
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part I - Tree canopy cover, Shrub canopy cover Tree canopy cover % Shrub canopy cover % Note: Only asse Part J - Site Context Score ATTRIBUTE DESCRIPTION SCORE DOES THIS ASSESSMENT UNIT ALSO CONT YES PLEASE COMPLETE SPECIES NO PLEASE ATTACH LANDSCAP at Attributes Species Name	Ally dominant layer species regenerating:	46.50% exchmark document stipulates that connectedness 4 - 75% or >500ha connection 5 MENT. ND THEN ATTACH LANDS DIRECTED Species Hat NCA Status	Sub-canopy: t layers are present "if trees ar Context 4 - >75% remnant 5 SCAPE PHOTOS AND SL Ditat Attributes Attributes Description Score Description	6.00 10.00% 12.00% e in the same layer and contin Distance to Pe 1 - 0 IBMIT AS DIRECTED Threats to species 3 - Low threat level	25 Emergent: usus along the transect you car manent Water S00m 0 Quality and availability of food and foraging habitat 3 - High	0.00% group them <u>Ecological Cc</u> <u>3 - Within (whol</u> <u>6</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u>	s s s s s s s s s s s s s s
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part I - Tree canopy cover, Shrub canopy cover Shrub canopy cover % Shrub canopy cover % Part J - Site Context Score ATTRIBUTE DESCRIPTION SCORE DOES THIS ASSESSMENT UNIT ALSO CONT YES PLEASE COMPLETE SPECIES NO PLEASE ATTACH LANDSCAP at Attributes	Ally dominant layer species regenerating:	46.50% exchmark document stipulates that connectedness 4 - 75% or >500ha connection 5 MENT. ND THEN ATTACH LANDS DIRECTED Species Hat NCA Status	Sub-canopy: t layers are present "If trees ar Context 4 - >75% remnant 5 SCAPE PHOTOS AND SL Ditat Attributes Attributes Description Score Description Score	6.00 10.00% 12.00% e in the same layer and contin Distance to Pe 1 - 0 IBMIT AS DIRECTED Threats to species 3 - Low threat level	25 Emergent: usus along the transect you car manent Water S00m 0 Quality and availability of food and foraging habitat 3 - High	0.00% group them <u>Ecological Cc</u> <u>3 - Within (whol</u> <u>6</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u>	s s s s s s s s s s s s s s
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part I - Tree canopy cover, Shrub canopy cover Shrub canopy cover % Shrub canopy cover % Part J - Site Context Score ATTRIBUTE DESCRIPTION SCORE DOES THIS ASSESSMENT UNIT ALSO CONT YES PLEASE COMPLETE SPECIES NO PLEASE ATTACH LANDSCAP at Attributes	Ally dominant layer species regenerating:	46.50% exchmark document stipulates that connectedness 4 - 75% or >500ha connection 5 MENT. ND THEN ATTACH LANDS DIRECTED Species Hat NCA Status	Sub-canopy: Sub-canopy: t layers are present "if trees ar Context 4 ->75% remnant 5 SCAPE PHOTOS AND SL Ditat Attributes Description Score Description Score Description Score Description	6.00 10.00% 12.00% e in the same layer and contin Distance to Pe 1 - 0 IBMIT AS DIRECTED Threats to species 3 - Low threat level	25 Emergent: usus along the transect you car manent Water S00m 0 Quality and availability of food and foraging habitat 3 - High	0.00% group them <u>Ecological Cc</u> <u>3 - Within (whol</u> <u>6</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u>	s s s s s s s s s s s s s s
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part I - Tree canopy cover, Shrub canopy cover Tree canopy cover % Shrub canopy cover % Note: Only asse Part J - Site Context Score ATTRIBUTE DESCRIPTION SCORE DOES THIS ASSESSMENT UNIT ALSO CONT YES PLEASE COMPLETE SPECIES NO PLEASE ATTACH LANDSCAP at Attributes	Ally dominant layer species regenerating:	46.50% exchmark document stipulates that connectedness 4 - 75% or >500ha connection 5 MENT. ND THEN ATTACH LANDS DIRECTED Species Hat NCA Status	Sub-canopy: Sub-canopy: Layers are present *if trees ar Context 4 ->75% remnant 5 SCAPE PHOTOS AND SL Ditat Attributes Description Score Description Score Description Score	6.00 10.00% 12.00% e in the same layer and contin Distance to Pe 1 - 0 IBMIT AS DIRECTED Threats to species 3 - Low threat level	25 Emergent: usus along the transect you car manent Water S00m 0 Quality and availability of food and foraging habitat 3 - High	0.00% group them <u>Ecological Cc</u> <u>3 - Within (whol</u> <u>6</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u>	s s s s s s s s s s s s s s
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part I - Tree canopy cover, Shrub canopy cover Tree canopy cover % Shrub canopy cover % Note: Only asse Part J - Site Context Score ATTRIBUTE DESCRIPTION SCORE DOES THIS ASSESSMENT UNIT ALSO CONT YES PLEASE COMPLETE SPECIES NO PLEASE ATTACH LANDSCAP at Attributes	Ally dominant layer species regenerating:	46.50% exchmark document stipulates that connectedness 4 - 75% or >500ha connection 5 MENT. ND THEN ATTACH LANDS DIRECTED Species Hat NCA Status	Sub-canopy: Sub-canopy: t layers are present *if trees ar Context 4 - >75% remnant 5 SCAPE PHOTOS AND SL Description Score Description Score Description Score Description Score Description Score Description Score Description Score	6.00 10.00% 12.00% e in the same layer and contin Distance to Pe 1 - 0 IBMIT AS DIRECTED Threats to species 3 - Low threat level	25 Emergent: usus along the transect you car manent Water S00m 0 Quality and availability of food and foraging habitat 3 - High	0.00% group them <u>Ecological Cc</u> <u>3 - Within (whol</u> <u>6</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u>	s s s s s s s s s s s s s s
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part I - Tree canopy cover, Shrub canopy cover Shrub canopy cover % Shrub canopy cover % Part J - Site Context Score ATTRIBUTE DESCRIPTION SCORE DOES THIS ASSESSMENT UNIT ALSO CONT YES PLEASE COMPLETE SPECIES NO PLEASE ATTACH LANDSCAP at Attributes	Ally dominant layer species regenerating:	46.50% exchmark document stipulates that connectedness 4 - 75% or >500ha connection 5 MENT. ND THEN ATTACH LANDS DIRECTED Species Hat NCA Status	Sub-canopy: Sub-canopy: t layers are present *if trees ar Context 4 - >75% remnant 5 SCAPE PHOTOS AND SL Description Score Score Score Description Score Score Score Description Score Sco	6.00 10.00% 12.00% e in the same layer and contin Distance to Pe 1 - 0 IBMIT AS DIRECTED Threats to species 3 - Low threat level	25 Emergent: usus along the transect you car manent Water S00m 0 Quality and availability of food and foraging habitat 3 - High	0.00% group them <u>Ecological Cc</u> <u>3 - Within (whol</u> <u>6</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u>	s s s s s s s s s s s s s s
Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part I - Tree canopy cover, Shrub canopy cover Tree canopy cover % Shrub canopy cover % Note: Only asse Part J - Site Context Score ATTRIBUTE DESCRIPTION SCORE DOES THIS ASSESSMENT UNIT ALSO CONT YES PLEASE COMPLETE SPECIES NO PLEASE ATTACH LANDSCAP Lat Attributes	Ally dominant layer species regenerating:	46.50% exchmark document stipulates that connectedness 4 - 75% or >500ha connection 5 MENT. ND THEN ATTACH LANDS DIRECTED Species Hat NCA Status	Sub-canopy: Sub-canopy: t layers are present "if trees ar Context 4 ->75% remnant 5 SCAPE PHOTOS AND SL Ditat Attributes Description Score Description Score Description Score Description Score Description Score Description Score Description Score Description Score Description Score Description	6.00 10.00% 12.00% e in the same layer and contin Distance to Pe 1 - 0 IBMIT AS DIRECTED Threats to species 3 - Low threat level	25 Emergent: usus along the transect you car manent Water S00m 0 Quality and availability of food and foraging habitat 3 - High	0.00% group them <u>Ecological Cc</u> <u>3 - Within (whol</u> <u>6</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u>	s s s s s s s s s s s s s s
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Total Number Large Trees: Median Tree Canopy Height Measurements Number of ecologica Part I - Tree canopy cover, Shrub canopy cover Shrub canopy cover % Shrub canopy cover % Part J - Site Context Score ATTRIBUTE DESCRIPTION SCORE DOES THIS ASSESSMENT UNIT ALSO CONT YES PLEASE COMPLETE SPECIES NO PLEASE ATTACH LANDSCAP at Attributes	Ally dominant layer species regenerating:	46.50% exchmark document stipulates that connectedness 4 - 75% or >500ha connection 5 MENT. ND THEN ATTACH LANDS DIRECTED Species Hat NCA Status	Sub-canopy: Sub-canopy: t layers are present "if trees ar Context 4 ->75% remnant 5 SCAPE PHOTOS AND SL Description Score Score Description Score	6.00 10.00% 12.00% e in the same layer and contin Distance to Pe 1 - 0 IBMIT AS DIRECTED Threats to species 3 - Low threat level	25 Emergent: usus along the transect you car manent Water S00m 0 Quality and availability of food and foraging habitat 3 - High	0.00% group them <u>Ecological Cc</u> <u>3 - Within (whol</u> <u>6</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u> <u>9</u>	s s s s s s s s s s s s s s

r all environmental offset applications you must:						
	Form d. Moder of Flooder on		1-)			
 Complete form (Environmental Offsets Delivery I Complete any other forms relevant to your appli 		d Advanced Offsets Detail	ls)			
 Provide the mandatory supporting information is 		ng required to accompany	your application			
form is useful for undertaking a habitat quality analysi						
se note that this form should be completed individually	for each assessment unit und	der consideration.				
Is this Assessment for:	An Impact Site		An Offset Site		an Advanced Offset Site	
		Habitat Quality	Assessment Unit Score Shee	t		
A - Administrative						
Case reference				Project Name		
B – Nominated Approach (FOR IMPACT SITE ONLY)						
ase Select Your Nominated approach:		Rapid approach		Standard Approach		
i) Rapid Assessment					(ENTER BVG FROM DROP-I	DOWN LIST BELOW)
Enter BVG:						
					Presumed HQ Equals	
						.
ii) Standard Assessment					(COMPLETE REMAINDER C	DF FORM)
			· · · · ·			
C - Site Data						
Property		Meads		Date	30/03/20	
Assessment Unit:	Assessment	Unit Area (ha)	RE		Bioregion Nu	mber
2		10	12.12.2		Southeast Que	
Landscape Photo- Please attach or in	nsert north, south, east and we	st photos in the spaces prov	vided from row 231-355 below a	nd include details such as T	ime and Mapping Coordinates	in the following row.
m			Zone	F	isting	Northing
	0m Mark		56		2.1156	-27.3612
94	50m Mark		Zone	Ea	isting	Northing
Plot bearing				Recorders		BC
	Site descripti	ion and Location (including o	details of discrete polygons with	in the assessment unit)		
rt D - Native Species Birkness: (filet enacies below)						
rt D - Native Species Richness: (*list species below)		Tre	ve species richness:			
I number of species			ie species richness;	6		
I number of species Scientific Name		Eucalyptus pilularis	e species richness:	6 Common Name		
l number of species Scientific Name Scientific Name		Eucalyptus pilularis E.microcorys	te species richness;	Common Name		
number of species Scientific Name Scientific Name Scientific Name		Eucalyptus pilularis E.microcorys E.propinqua	e species richness:	Common Name Common Name		
number of species Scientific Name Scientific Name		Eucalyptus pilularis E.microcorys	e species richness:	Common Name		
number of species Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name		Eucalyptus pilularis E.microcorys E.propinqua	te species richness:	Common Name Common Name Common Name Common Name Common Name		
number of species Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name		Eucalyptus pilularis E.microcorys E.propinqua Angophora leiocarpa Corymbia citriodora	e species richness:	Common Name Common Name Common Name Common Name Common Name Common Name		
number of species Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name		Eucalyptus pilularis E.microcorys E.propinqua Angophora leiocarpa Corymbia citriodora	re species richness:	Common Name Common Name Common Name Common Name Common Name Common Name		
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number of species Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Number of species Scientific Name		Eucolyptus piluloris E.microcorys E.propinquo Angophora leicorapa Corymbia citriodora E.tereticornis Shru Alphitonia excelsa		Common Name Common Name Common Name Common Name Common Name Common Name Common Name Common Name		
number of species Scientific Name Scientific N		Eucolyptus piluloris E.microcorys E.propinguo Angophone leicarapa Corymbia citriodoro E.tereticornis E.tereticornis Shruc Alphitonia excelsa Allocasuarina torulosa		Common Name Common Name Common Name Common Name Common Name Common Name Common Name Sommon Name		
number of species Scientific Name Scientific N		Eucolyptus piluloris E.microcorys E.propinguo Angopharu elicorapa Corymbia citriodora E.terreticornis Shru Alphitonia excetsa Allocasuarina torulosa		Common Name Common Name Common Name Common Name Common Name Common Name Common Name Common Name 5 Common Name Common Name Common Name		
number of species Scientific Name Scientific N		Eucolyptus piluloris E.microcorys E.propinguo Angophone leicarapa Corymbia citriodoro E.tereticornis E.tereticornis Shruc Alphitonia excelsa Allocasuarina torulosa		Common Name Common Name Common Name Common Name Common Name Common Name Common Name Sommon Name		
number of species Scientific Name		Eucolyptus piluloris E.microcorys E.propinqua Angoptone loicorapa Corymbia citriodara E.tereticornis Shru Alphitonia excelsa Alocasuarina torulosa Brachychiton populneus Acacia longisima		Common Name		
number of species Scientific Name		Eucolyptus pilularis E.mcracorys E.propinqua Angophara leicargaa Corymbia citriodora E.terreticomis Shru Alphitania excella Allocasuarina trulosa Birochychitan populneus Acacia longissima A. melanoxylon		Common Name Common		
number of species Scientific Name		Eucolyptus pilularis E.mcracorys E.propinqua Angophara leicargaa Corymbia citriodora E.terreticomis Shru Alphitania excella Allocasuarina trulosa Birochychitan populneus Acacia longissima A. melanoxylon		Common Name Common		
number of species Scientific Name		Eucolyptus pilularis E.mcracorys E.propinqua Angophara leicargaa Corymbia citriodora E.terreticomis Shru Alphitania excella Allocasuarina trulosa Birochychitan populneus Acacia longissima A. melanoxylon		Common Name Common		
number of species Scientific Name		Eucolyptus pilularis E.mcracorys E.propinqua Angophara leicargaa Corymbia citriodora E.terreticomis Shru Alphitania excella Allocasuarina trulosa Birochychitan populneus Acacia longissima A. melanoxylon		Common Name Common		
number of species Scientific Name		Eucolyptus piluloris E.microcorys E.propinqua Angophore leicorapa Corymbia citriodora E.tereticornis Shru Alphitonia excelsa Allocasuarina torulosa Brachychton poylaeus Acacia longissima A. melanoxylon E.piluloris		Common Name Common		
number of species Scientific Name Scientific N		Eucolyptus piluloris E.microcorys E.propinquo Angophora leicorapa Corymbia citriodora E.terreticornis Materia Alphitonia excelsa Allocasuarina torulosa Brachychito populneus Acacia longissima A. melonoxylon E.piluloris	ub species richness:	Common Name Common		
number of species Scientific Name Scientific N		Eucolyptus piluloris E.microcorys E.propinqua Angoptone loicarpa Corymbia citriodara E.tereticornis Alphitonia excelsa Alphitonia excelsa Brachychiton populneus A.accia lo agissima A. melanoxylon E.pilularis Grae Themeda australis	ub species richness:	Common Name Common		
I number of species Scientific Name Scientific		Eucolyptus piluloris E.microcorys E.propinquo Angophora leicorapa Corymbia citriodora E.terreticornis Materia Alphitonia excelsa Allocasuarina torulosa Brachychito populneus Acacia longissima A. melonoxylon E.piluloris	ub species richness:	Common Name Common		
Inumber of species Scientific Name		Eucolyptus piluloris E.microcorys E.propinqua Angoptone loicarpa Corymbia citriodara E.tereticornis Alphitonia excelsa Alphitonia excelsa Brachychiton populneus A.accia lo agissima A. melanoxylon E.pilularis Grae Themeda australis	ub species richness:	Common Name Common		
I number of species Scientific Name		Eucolyptus piluloris E.microcorys E.propinqua Angoptone loicarpa Corymbia citriodara E.tereticornis Alphitonia excelsa Alphitonia excelsa Brachychiton populneus A.accia lo agissima A. melanoxylon E.pilularis Grae Themeda australis	ub species richness:	Common Name Common		
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I number of species Scientific Name		Eucolyptus piluloris E.microcorys E.propinqua Angoptone loicarpa Corymbia citriodara E.tereticornis Alphitonia excelsa Alphitonia excelsa Brachychiton populneus A.accia lo agissima A. melanoxylon E.pilularis Grae Themeda australis	ub species richness:	Common Name Common		
number of species Scientific Name Scientific N		Eucolyptus piluloris E.microcorys E.propinqua Angoptone loicarpa Corymbia citriodara E.tereticornis Alphitonia excelsa Alphitonia excelsa Brachychiton populneus A.accia lo agissima A. melanoxylon E.pilularis Grae Themeda australis	ub species richness:	Common Name Common		
number of species Scientific Name		Eucolyptus pilularis E.mcracorys E.propinqua Angophara leicargan Corymbia citriodora E.tereticomis Alphitania excelsa Alphitania excelsa Allocasuorina trulosas Barchychitan papulneus Acacia longissima Acacia longissima E.pilularis E.pilularis Grae	ub species richness:	Common Name Common		
number of species Scientific Name Scientific N		Eucolyptus pilularis E.mcracorys E.propinqua Angophara leicargan Corymbia citriodora E.tereticomis Alphitania excelsa Alphitania excelsa Allocasuorina trulosas Barchychitan papulneus Acacia longissima Acacia longissima E.pilularis E.pilularis Grae	ub species richness:	Common Name Common		
I number of species Scientific Name		Eucolyptus pilularis E.mcracorys E.propinqua Angophara leicargan Corymbia citriodora E.tereticomis Alphitania excelsa Alphitania excelsa Allocasuorina trulosas Barchychitan papulneus Acacia longissima Acacia longissima E.pilularis E.pilularis Grae	ub species richness:	Common Name Common		

Scientific Name		Goodenia rotundifolia		Common Name		
Scientific Name	1	Desmodium rhytidophyllum		Common Name		
Scientific Name		Persoonia sericea		Common Name		
Scientific Name		Eustrephus latifolius		Common Name		
Scientific Name		Pomax umbellata		Common Name		
Sciencine Manie	4	Fondx unbenutu		Common Name		
Part C. Non Matter Direct Course (With supplies halow)						
Part E - Non-Native Plant Cover: (*list species below)	r			44.50%		
Total percentage cover within plot				14.50%		
Scientific Name		Lantana camara		Common Name		
Scientific Name		Ligustrum lucidium		Common Name		
Scientific Name	1	Opuntia stricta		Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name	1			Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name	ł			Common Name		
Scientific Name	4			Common Name		
Part F - Coarse Woody Debris: (*list lengths of individual	logs in meters)					
Total Length of Course Woody Debris (Meters):				780.00		
1		8.00		26		
2		4.00		27		
3		2.00		28		
4	i	33.00		29		
	ł	10.00				
5	ł			30		
6	<u> </u>	8.00		31		
7		4.00		32		
8	4	4.00		33		
9		5.00		34		
10				35		
11				36		
12	<u> </u>			37		
	<u> </u>					
13	4			38		
14				39		
15				40		
16	4			41		
17	1			42		
18				43		
19	1			44		
20				45		
21				46		
22	ł			46		
	4					
23				48		
24				49		
25				50		
art G - Native perennial grass cover, organic litter: (*pro	vide percentage cover within	each quadrat, and provide a	average cover)			
	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4	Quadrat 5	Average
Native perennial grass cover	5.00%	5.00%	5.00%	15.00%	5.00%	7.00%
	<u></u>					
	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4	Quadrat 5	Average
Organic Litter			95.00%		85.00%	90.00%
	90.00%	95.00%	95.00%	85.00%	85.UU%	90.00%
Part H- Number of large trees , tree canopy height, recr	uitment of woody perennial s	pecies:				
		55cm		Non- Eucalypt Large tree		N/A
Eucalypt Large tree DBH benchmark used :		SSCM		DBH benchmark used:		N/A
	<u> </u>			Number of large non		
Number of large eucalypt trees:		20		eucalypt trees:		0
otal Number Large Trees:				eucalypt trees: 20		
otal number talge mees:				20		
Aedian Tree Canopy Height Measurements	Canopy:	24.00	Sub-canopy:	8.00	Emergent:	0.00
Number of ecologically domin	ant layer species regenerating:				17	
art I - Tree canopy cover, Shrub canopy cover						
ree canopy cover %	Canopy:	50.50%	Sub-canopy:	10.00%	Emergent:	0.00%
ihrub canopy cover %				21.00%		
nuo canopy cover %	J			L1.00/0		

Note: Only assess Emergent (E) or Subcanopy (S) layers if the benchmark document stipulates that layers are present *If trees are in the same layer and continuous along the transect you can group them

Part J - Site Context Score

ATTRIBUTE	Size of Patch	Connectedness	Context	Distance to Permanent Water	Ecological Corridors
DESCRIPTION	2 - 5 - 25ha	4 - >75% or >500ha connection	4 - >75% remnant	1 - 0-500m	3 - Within (whole or part)
SCORE	2	5	5	0	6

DOES THIS ASSESSMENT UNIT ALSO CONTAIN A SPECIES HABITAT REQUIREMENT.

YES DEPLEASE COMPLETE SPECIES HABITAT INDEX DETAILS BELOW AND THEN ATTACH LANDSCAPE PHOTOS AND SUBMIT AS DIRECTED

NO 🛛 PLEASE ATTACH LANDSCAPE PHOTOS BELOW AND SUBMIT AS DIRECTED

Part K - Species Habitat Attributes

			Species Hab	itat Attributes					
No	Species Name	CommonName	NCA Status	Attributes	Threats to species	Quality and availability of food and foraging habitat	Quality and availability of shelter	Species mobility capacity	Role of site location to overall population
1	Phascolarctos cinereus	koala	SL	Description	3 - Low threat level	3 - High	3 - High	4 - Minor restriction (0 – 25% reduction)	2 - Likely to be critical to species' survival
				Score	15	10	10	10	4
2				Description					
-				Score					
3				Description					
-				Score					
4				Description					
				Score					
5				Description Score					
				Description					
6				Score					
				Description					
7				Score					
-				Description					
8				Score					
9				Description					
9				Score					
10				Description					
_0				Score					
				Maximum Score	15.00	10.00	10.00	10.00	4.00

 Provide the manuatory supporting informatio 	ery Form 1– Notice of Election and oplication on identified on the forms as being		s)	PLEASE NOTE - YE		
his form is useful for undertaking a habitat quality anal ease note that this form should be completed individua	lysis of an impact and/or offset/a	advanced offset site.				
Is this Assessment for:	An Impact Site		An Offset Site		an Advanced Offset Site	
		Habitat Quality A	Assessment Unit Score Shee	t		
t A - Administrative Case reference		-		Project Name	1	
t B – Nominated Approach (FOR IMPACT SITE ONLY	1					
ase Select Your Nominated approach:	,	Rapid approach		Standard Approach		
i) Rapid Assessment	-				(ENTER BVG FROM DROP	-DOWN LIST BELOW)
Enter BVG:	_				Presumed HQ Equals	
ii) Standard Assessment					(COMPLETE REMAINDER (OF FORM)
t C - Site Data Property		Meads		Date	30/3/21	
Assessment Unit:	Assessment U	Jnit Area (ha)	RE		Bioregion N	umber
Assessment Unit: 3	Assessment U		RE 12.9-10.14		Southeast Que	
Landscape Photo- Please attach o	or insert north, south, east and wes	st photos in the spaces provi	ded from row 231-355 below a	nd include details such as 1	ime and Mapping Coordinates	in the following row.
um	0m Mark		Zone		Isting	Northing
55 84 A 94	50m Mark		56 Zone		2.1131 Isting	-27.3594 Northing
Plot bearing	John Wark			Recorders	[
			letails of discrete polygons wit			
) 	Tree	: species richness:			
) 	Tree Eucolyptus piluloris	= species richness:	6 Common Name		
al number of species Scientific Name Scientific Name		Eucalyptus pilularis Trema tomentosa	2 species richness:	Common Name Common Name		
al number of species Scientific Name		Eucalyptus pilularis	2 species richness:	Common Name		
al number of species Scientific Name Scientific Name Scientific Name		Eucalyptus pilularis Trema tomentosa E. microcorys	= species richness:	Common Name Common Name Common Name		
al number of species Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name		Eucalyptus pilularis Trema tomentosa E. microcorys Lophostemon confertus Allocasuarina torulosa	e species richness:	Common Name Common Name Common Name Common Name Common Name Common Name		
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I number of species Scientific Name Scientific Name		Eucolyptus pilularis Trema tomentoso E. microcorys Laphastemo confertus Allacasuarina torulosa Aphitonio esceisa Shru Allacasusarina torulosa L.confertus		Common Name Common Name		
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I number of species Scientific Name Scientific Name		Eucolyptus pilularis Trema tomentoso E. microcorys Laphastemo confertus Allacasuarina torulosa Aphitonio esceisa Shru Allacasusarina torulosa L.confertus		Common Name Common Name		
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al number of species Scientific Name Scientifi		Eucolyptus pilularis Trema tomentoso E. microcorys Laphostemo confertus Allocasuarina torulosa Alphitonia excelsa Shrui Allocasusarina torulosa L.confertus Trema tomentosa E.pilularis Gras Imperata cylindrico	b species richness:	Common Name Common		
tal number of species Scientific Name		Eucolyptus pilularis Trema tomentoso E. microcorys Laphostemo confertus Allocasuarina torulosa Alphitonia excelsa Shrui Allocasusarina torulosa L.confertus Trema tomentosa E.pilularis Gras Imperata cylindrico	b species richness:	Common Name Common		
tal number of species Scientific Name		Eucolyptus pilularis Trema tomentoso E. microcorys Laphostemo confertus Allocasuarina torulosa Alphitonia excelsa Shrui Allocasusarina torulosa L.confertus Trema tomentosa E.pilularis Gras Imperata cylindrico	b species richness:	Common Name Common		
al number of species Scientific Name Scientifi		Eucolyptus pilularis Trema tomentoso E. microcorys Laphostemo confertus Allocasuarina torulosa Alphitonia excelsa Shrui Allocasusarina torulosa L.confertus Trema tomentosa E.pilularis Gras Imperata cylindrico	b species richness:	Common Name Common		
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al number of species Scientific Name Scientific Name		Eucolyptus pilularis Trena tomentosa E. microcorys Laphostemo confertus Allocossurina torulosa Alphtonia excelsa Shru Allocossurarina torulosa L.confertus Trena tomentosa E.pilularis Grass Imperata cylindrica Themeda australis	b species richness:	Common Name Common		
al number of species Scientific Name Scientifi		Eucolyptus pilularis Trena tomentosa E. microcorys Laphostemo confertus Allocossurina torulosa Alphtonia excelsa Shru Allocossurarina torulosa L.confertus Trena tomentosa E.pilularis Grass Imperata cylindrica Themeda australis	b species richness:	Common Name Common		
Scientific Name		Eucolyptus pilularis Trena tomentosa E. microcorys Laphostemo confertus Allocossurina torulosa Alphtonia excelsa Shru Allocossurarina torulosa L.confertus Trena tomentosa E.pilularis Grass Imperata cylindrica Themeda australis	b species richness:	Common Name Common		

Scientific Name		Gahnia aspera		Common Name		
Scientific Name		Lomandra multiflora		Common Name		
Scientific Name	l	Lomanara multifiora Hardenbergia violaceae		Common Name		
Scientific Name		Lepidosperma laterale		Common Name		
Scientific Name	<u> </u>	Eustrephus latifolius		Common Name		
Scientific Name	L	Eustrephus lutijoilus		Common Name		
Part E - Non-Native Plant Cover: (*list species below)						
Total percentage cover within plot				75.50%		
Scientific Name		Lantana camara		Common Name		
Scientific Name		Ligustrum lucidium		Common Name		
Scientific Name		Opuntia sp.		Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name Scientific Name				Common Name Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
rt F - Coarse Woody Debris: (*list lengths of individual	logs in meters)					
Total Length of Course Woody Debris (Meters):				420.00		
1		12.00		26		
2	<u> </u>	5.00		27		
3 4	l	20.00		28 29		
		20.00		30		
6				30		
7				32		
8	-			33		-
9				34		
10				35		
11				36		
12				37		
13				38		~
14				39		~
15				40		
16				41		
17				42		
18				43		
19				44		
20				45		
21				46		
22				47		
23				48		
24				49		
25	I			50		
rt G - Native perennial grass cover, organic litter: (*pro	vide percentage cover withi	in each quadrat, and provide	average cover)			
Native perennial grass cover	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4	Quadrat 5	Average
Nauve perennial grass cover	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4	Quadrat 5	Average
Organic Litter	85.00%	50.00%	95.00%	95.00%	50.00%	75.00%
art H- Number of large trees , tree canopy height, recr	uitment of woody perennial	species:				
Eucalypt Large tree DBH benchmark used :		41cm		Non-Eucalypt Large tree DBH benchmark used:		N/A
Minute		12		Number of large non		0
Number of large eucalypt trees: tal Number Large Trees:		12		eucalypt trees:		U
A A A A A A A A A A A A A A A A A A A				12		
edian Tree Canopy Height Measurements	Canopy:	24.00	Sub-canopy:	11.00	Emergent:	0.00
Number of contacts the density	ant layer species regenerating:				17	
Number of ecologically domin						
rt I - Tree canopy cover, Shrub canopy cover	Canony	46.00%	Sub-canon-	20.00%	Emergent:	
Number of ecologically domin Int I - Tree canopy cover, Shrub canopy cover ee canopy cover % rub canopy cover %	Canopy:	46.00%	Sub-canopy:	20.00% 35.50%	Emergent:	

Part J - Site Context Score
AT
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S

ATTRIBUTE	Size of Patch	Connectedness	Context	Distance to Permanent Water	Ecological Corridors	
DESCRIPTION	5 - >200ha	4 - >75% or >500ha connection	4 - >75% remnant	1 - 0-500m	3 - Within (whole or part)	
SCORE	10	5	5	0	6	

DOES THIS ASSESSMENT UNIT ALSO CONTAIN A SPECIES HABITAT REQUIREMENT.

YES 🛛 🗖 PLEASE COMPLETE SPECIES HABITAT INDEX DETAILS BELOW AND THEN ATTACH LANDSCAPE PHOTOS AND SUBMIT AS DIRECTED

NO 🛛 PLEASE ATTACH LANDSCAPE PHOTOS BELOW AND SUBMIT AS DIRECTED

Part K - Species Habitat Attributes

Species Habitat Attributes No Species Name CommonName NCA Status Attributes Threats to species Quality and availability of the function of the functin of the function of the function of the function of the										
INU	Species Name	Commonivame	NCA Status	Attributes	inreats to species	food and foraging habitat	shelter		to overall population	
1	Phascolarctos cinereus	koala	SL	Description	2 - Moderate threat level	2 - Moderate	3 - High	2 - Highly restricted (51% - 75% reduction)	2 - Likely to be critical to species' survival	
				Score	7	5	10	4	4	
2				Description						
-				Score						
3				Description						
-				Score						
4				Description						
				Score						
5				Description						
-				Score						
6				Description						
-				Score						
7				Description						
-				Score						
8				Description						
				Score						
9				Description						
				Score						
10				Description						
				Score						
				Maximum Score	7.00	5.00	10.00	4.00	4.00	
1										

Habitat Quality Site Assessment Template For all environmental offset applications you must: Complete form (Environmental Offsets Delivery Complete any other forms relevant to your appl Provide the mandatory supporting information i	Form 1– Notice of Election and a cation	Advanced Offsets Details)		PLEASE NOTE - YI	ELLOW INDICATES AN	AUTO POPULATED FIELD
This form is useful for undertaking a habitat quality analys Please note that this form should be completed individually						
Is this Assessment for:	An Impact Site		An Offset Site		an Advanced Offset Site	
		Habitat Quality Asse	essment Unit Score She	et		
Part A - Administrative						
Case reference				Project Name		
Part B – Nominated Approach (FOR IMPACT SITE ONLY)						
Please Select Your Nominated approach:		Rapid approach		Standard Approach		
i) Rapid Assessment					(ENTER BVG FROM DROP	-DOWN LIST BELOW)
Enter BVG:					Presumed HQ Equals	
ii) Standard Assessment					(COMPLETE REMAINDER	OF FORM)
Part C - Site Data						
Property		Meads		Date	30/3/21	
Assessment Unit: 4	Assessment Un 35	it Area (ha)	RE 12.9-10.17		Bioregion N Southeast Out	
	55				Sourcest du	
Landscape Photo- Please attach or i	nsert north, south, east and west	photos in the spaces provided	from row 231-355 below	and include details such as	Time and Mapping Coordinates	in the following row.
Datum		Zon	0	-	asting	Northing
WGS 84	0m Mark	56	-		52.1146	-27.3575
GDA 94	50m Mark	Zon	e	E	asting	Northing
Plot bearing				Recorders		
12.9-10.17c: Open forest of Eucalyptus carnea and/or E. tindalia		and Location (including detai			Ingophora woodriana C tooth	nhlaia E ridaranhlaia E misrasana Eif
	propinqua. Lophostemon confertus (prinora, c. siceroprinore, c. microcorys, c. resillitera

	Tree species richness:		
otal number of species		8	
Scientific Name	Eucalyptus microcorys	Common Name	
Scientific Name	E. major	Common Name	
Scientific Name	E.propinqua	Common Name	
Scientific Name	E.tindaliae	Common Name	
Scientific Name	Corymbia citriodora	Common Name	
Scientific Name	E.tereticornis	Common Name	
Scientific Name	Angophora leiocarpa	Common Name	
Scientific Name	Lophostemon confertus	Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
	Shrub species richness:		
otal number of species		6	
Scientific Name	Allocasuarina littoralis	Common Name	
Scientific Name	A.leiocarpa	Common Name	
Scientific Name	L.confertus	Common Name	
Scientific Name	Acacia melanoxylon	Common Name	
Scientific Name	Breynia oblongifolia	Common Name	
Scientific Name	Alphitonia excelsa	Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
	Grass species richness:		
otal number of species		4	
Scientific Name	Themeda australis	Common Name	
Scientific Name	Entolasia stricta	Common Name	
Scientific Name	Cymbopogon refractus	Common Name	
Scientific Name	Imperata cylindrica	Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
·		· · · · · · ·	
	Forbs and others (non grass ground) spec	ies richness:	
otal number of species		11	
Scientific Name	Breynia oblongifolia	Common Name	Lepidosperma laterale
Scientific Name	Solanum stelligerum	Common Name	Senescio sp
Scientific Name	Gahnia aspera	Common Name	Pomax umbellata
Scientific Name	Hardenbergia violaceae	Common Name	Persoonia sp.

Scientific Name	De	smodium rhytidophyllum		Common Name		
Scientific Name	l	Persoonia sericea		Common Name		
Scientific Name		Smilax australis		Common Name		
Part E - Non-Native Plant Cover: (*list species below)	1			27.00%		
Total percentage cover within plot	1	Lantana camara				
Scientific Name	l			Common Name		
Scientific Name	1	Passiflora suberosa		Common Name		
Scientific Name	1			Common Name		
Scientific Name	4			Common Name		
Scientific Name	1			Common Name		
Scientific Name	1			Common Name		
Scientific Name	1			Common Name		
Scientific Name	1			Common Name		
Scientific Name				Common Name		
Scientific Name	1			Common Name		
art F - Coarse Woody Debris: (*list lengths of individual l	ogs in meters)					
Total Length of Course Woody Debris (Meters):				820.00		
1	l	30.00		26		
2	l	12.00		27		
3	l	5.00		28		
4	l	3.00		29		
5	l	6.00		30		
6	l	15.00		31		
7		2.00		32		
8		2.00		33		
9	l	6.00		34		
10	l	1.00		35		
11	1			36		
12				37		
13				38		
14				39		
15				40		
16				41		
17				42		
18				43		
19				44		
20				45		
21				46		
22				47		
23				48		
23				48		
25				50		
	ł					
art G - Native perennial grass cover, organic litter: (*pro	vide percentage cover within e	ach quadrat, and provide a	verage cover)			
		Quadrat 2	Ouadrat 3	Quadrat 4	Quadrat 5	Average
	Quadrat 1					12.00%
Native perennial grass cover, organic litter: (*pro	Quadrat 1 5.00%		40.00%	5.00%	5.00%	
	Quadrat 1 5.00%	5.00%	40.00%	5.00%	5.00%	
Native perennial grass cover	5.00%	5.00%				
	5.00% Quadrat 1	5.00% Quadrat 2	Quadrat 3	Quadrat 4	Quadrat 5	Average
Native perennial grass cover	5.00%	5.00%				
Native perennial grass cover Organic Litter	5.00% Quadrat 1 95.00%	5.00% Quadrat 2 90.00%	Quadrat 3	Quadrat 4	Quadrat 5	Average
Native perennial grass cover Organic Litter	5.00% Quadrat 1 95.00%	5.00% Quadrat 2 90.00%	Quadrat 3	Quadrat 4 90.00%	Quadrat 5	Average
Native perennial grass cover Organic Litter	5.00% Quadrat 1 95.00%	5.00% Quadrat 2 90.00%	Quadrat 3	Quadrat 4 90.00% Non- Eucalypt Large tree	Quadrat 5	Average
Native perennial grass cover Organic Litter Part H- Number of large trees , tree canopy height, recru	5.00% Quadrat 1 95.00%	5.00% Quadrat 2 90.00%	Quadrat 3	Quadrat 4 90.00% Non- Eucalypt Large tree DBH benchmark used:	Quadrat 5	Average 87.00%
Native perennial grass cover Organic Litter Part H- Number of large trees , tree canopy height, recru Eucalypt Large tree DBH benchmark used :	5.00% Quadrat 1 95.00%	5.00% Quadrat 2 90.00% scies: 44	Quadrat 3	Quadrat 4 90.00% Non- Eucalypt Large tree	Quadrat 5	Average 87.00%
Native perennial grass cover Organic Litter Part H- Number of large trees , tree canopy height, recru Eucalypt Large tree DBH benchmark used : Number of large eucalypt trees:	5.00% Quadrat 1 95.00%	5.00% Quadrat 2 90.00%	Quadrat 3	Quadrat 4 90.00% Non-Eucalypt Large tree DBH benchmark used: Number of large non eucalypt trees:	Quadrat 5	Average 87.00%
Native perennial grass cover Organic Litter Part H- Number of large trees , tree canopy height, recru Eucalypt Large tree DBH benchmark used : Number of large eucalypt trees:	5.00% Quadrat 1 95.00%	5.00% Quadrat 2 90.00% scies: 44	Quadrat 3	Quadrat 4 90.00% Non-Eucalypt Large tree DBH benchmark used: Number of large non	Quadrat 5	Average 87.00%
Native perennial grass cover Organic Litter Part H- Number of large trees, tree canopy height, recru Eucalypt Large tree DBH benchmark used : Number of large eucalypt trees: stal Number Large Trees:	5.00% Quadrat 1 95.00% ultment of woody perennial spe	5.00% Quadrat 2 90.00% ccles: 44 20	Quadrat 3 80.00%	Quadrat 4 90.00% Non-Eucalypt Large tree DBH benchmark used: Number of large non eucalypt trees: 20	Quadrat 5 80.00%	Average 87.00% N/A 0
Native perennial grass cover Organic Litter Part H- Number of large trees , tree canopy height, recru Eucalypt Large tree DBH benchmark used : Number of large eucalypt trees:	5.00% Quadrat 1 95.00%	5.00% Quadrat 2 90.00% scies: 44	Quadrat 3	Quadrat 4 90.00% Non-Eucalypt Large tree DBH benchmark used: Number of large non eucalypt trees:	Quadrat 5	Average 87.00%

 Canopy:
 47.50%
 Sub-canopy:
 30.00%
 Emergent:
 0.00%

 27.50%
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Part J - Site Context Score					
ATTRIBUTE	Size of Patch	Connectedness	Context	Distance to Permanent Water	Ecological Corridors
DESCRIPTION	5 - >200ha	4 - >75% or >500ha connection	4 - >75% remnant	1 - 0-500m	3 - Within (whole or part)
SCORE	10	5	5	0	6

DOES THIS ASSESSMENT UNIT ALSO CONTAIN A SPECIES HABITAT REQUIREMENT.

Part I - Tree canopy cover, Shrub canopy cover Tree canopy cover %

Shrub canopy cover %

YES 🛛 PLEASE COMPLETE SPECIES HABITAT INDEX DETAILS BELOW AND THEN ATTACH LANDSCAPE PHOTOS AND SUBMIT AS DIRECTED

NO 🛛 PLEASE ATTACH LANDSCAPE PHOTOS BELOW AND SUBMIT AS DIRECTED

			Species Ha	bitat Attributes					
No	Species Name	CommonName	NCA Status	Attributes	Threats to species	Quality and availability of food and foraging habitat			Role of site location to overall population
1	Phascolarctos cinereus	koala	SL	Description	2 - Moderate threat level	3 - High	3 - High	3 - Moderately restricted (26 – 50% reduction)	2 - Likely to be critica to species' survival
			Score	7	10	10	7	4	
2				Description					
-				Score					
3				Description					
, ,				Score					
4				Description					
-				Score					
5				Description					
				Score					
6				Description					
-				Score					
7				Description					
				Score					
8				Description					
-				Score					
9				Description					
				Score					
10				Description					
				Score					
				Maximum Score	7.00	10.00	10.00	7.00	4.00

labitat Quality Site Assessment Templa	ıte			PLEASE NOTE - YE	ELLOW INDICATES	AN AUTO POPU	LATED FIELD
or all environmental offset applications you must: Complete form (Environmental Offsets De	elivery Form 1– Notice of Election a	nd Advanced Offsets Details)				
 Complete any other forms relevant to you Brouide the mandatory supporting inform 		ing required to accompany	our application				
 Provide the mandatory supporting inform 			ioui appillation				
his form is useful for undertaking a habitat quality a lease note that this form should be completed indiv							
Is this Assessment for:	An Impact Site		An Offset Site		an Advanced Offset S	ite 🗆	
		Habitat Quality Ass	sessment Unit Score She	et			
art A - Administrative							
Case reference				Project Name			
art B – Nominated Approach (FOR IMPACT SITE ON	NLY)						
lease Select Your Nominated approach:		Rapid approach		Standard Approach			
i) Rapid Assessment					(ENTER BVG FROM D	ROP-DOWN LIST BEL	ow)
Enter BVG:							
Enter BVG:					Presumed HQ Equal	s	
ii) Standard Assessment					(COMPLETE REMAINE	DER OF FORM)	
art C - Site Data							
Property		Meads		Date	30/3/20:		
		Unit Area (h-)				on Number	
Assessment Unit: 5		Unit Area (ha) 5	RE 12.12.23			on Number t Queensland	
Landssons Photo Discourses				and include data "a surt	Time and Man-i C	dinates in the faller	17 FOW
Lanoscape Photo- Please attach	or insert north, south, east and west	the spaces provide	a nom row 231-355 below	and include details such as	s nine and wapping Coor	unates in the followin	515W.
atum			one		asting		Northing
atum /GS 84	0m Mark			15	asting 2.1146		-27.3525
DA 94	50m Mark	Zc	one	Ea	asting		Northing
Plot bearing				Recorders			
biturbinata, E. longirostrata, E. melliodora, C. trachyph							
biturbinata, E. longirostrata, E. melliodora, C. trachypł	nw)						
biturbinata, E. longirostrata, E. melliodora, C. trachyph Part D - Native Species Richness: (*list species bek	ow)	Tree sp	pecies richness:				
biturbinata, E. longirostrata, E. melliodora, C. trachyph Part D - Native Species Richness: (*list species bek otal number of species	ow)		pecies richness:	6 Compos Name			
biturbinata, E. longirostrata, E. melliodora, C. trachyph Part D - Native Species Richness: (*list species belo tal number of species Scientific Name Scientific Name	ow)	Eucalyptus tereticornis Corymbia citriodora	secies richness:	Common Name Common Name			
Part D - Native Species Richness: (*list species belo stal number of species Scientific Name Scientific Name	ow)	Eucalyptus tereticornis Corymbia citriodora E.crebra	pecies richness:	Common Name Common Name Common Name			
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biturbinata, E. longirostrata, E. melliodora, C. trachyph Part D - Native Species Richness: (*list species below tal number of species Scientific Name Scientific Name	DW)	Eucalyptus tereticornis Corymbia citriodora E.crebra E.propingua Lophostemon confertus Allocasuarina torulosa Shrub s		Common Name Common Name Common Name Common Name Common Name Common Name Common Name Common Name			
Part D - Native Species Richness: (*list species belo stal number of species Scientific Name Scientific Name	ow)	Eucalyptus tereticornis Corymbia citriodora E.crebra E.propinqua Lophostemon confertus Allocasuarina torulosa Allocasuarina torulosa Shrub s Alphitonia excelsa L.confertus		Common Name Common Name			
biturbinata, E. longirostrata, E. melliodora, C. trachyph Part D - Native Species Richness: (*list species bek Scientific Name Scientific Name	ow)	Eucalyptus tereticornis Corymbia citriodora E.crebra Laphostemon confertus Allocasuarina torulosa Shrub s Alphitonia excelsa L.confertus A.torulosa		Common Name Common Name			
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Part D - Native Species Richness: (*list species belo Part D - Native Species Richness: (*list species belo tal number of species Scientific Name Scientific Name	I I I I	Eucalyptus tereticornis Corymbia citriodora E.crebra E.propingua Lophostemon confertus Allocasuarina torulosa Shrub s Alphitonia excelsa L.confertus A.tornfortus E.crebra Grass g Themeda australis Imperata cylindrica	pecies richness:	Common Name Common			
Part D - Native Species Richness: (*list species belo Part D - Native Species Richness: (*list species belo Scientific Name Scientific Name	ow)	Eucalyptus tereticornis Corymbia citriodora E.crebra E.propingua Laphostemon confertus Allocasuarina torulosa Shrub s Alphitonia excelsa L.confertus A.torulosa E.crebra Grass s Themeda australis	pecies richness:	Common Name Common			
Part D - Native Species Richness: (*list species belo stal number of species Scientific Name Scientific Name	ow)	Eucalyptus tereticornis Corymbia citriodora E.crebra E.propingua Lophostemon confertus Allocasuarina torulosa Shrub s Alphitonia excelsa L.confertus A.tornfortus E.crebra Grass g Themeda australis Imperata cylindrica	pecies richness:	Common Name Common			
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Part D - Native Species Richness: (*list species belo stal number of species Scientific Name Scientific Name		Eucalyptus tereticornis Corymbia citriodora E.crebra E.propingua Lophostemon confertus Allocasuarina torulosa Shrub s Alphitonia excelsa L.confertus A.tornfortus E.crebra Grass g Themeda australis Imperata cylindrica	pecies richness:	Common Name Common			
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Part D - Native Species Richness: (*list species belo Scientific Name Scientific Name	Image: Section of the sectio	Eucalyptus tereticornis Corymbia citriodora E.crebra E.propingua Lophostemon confertus Allocasuarina torulosa Shrub s Alphitonia excelsa L.confertus A.tornfortus E.crebra Grass g Themeda australis Imperata cylindrica	pecies richness:	Common Name Common			
Part D - Native Species Richness: (*list species bek Part D - Native Species Richness: (*list species bek Scientific Name Scientific Name	Image: Section of the sectio	Eucalyptus tereticornis Corymbia citriodora E.crebra E.propingua Lophostemon confertus Allocasuarina torulosa Shrub s Alphitonia excelsa L.confertus A.torulosa E.crebra Grass s Themeda australis Imperata cylindrica Cymbapogon refractus	pecies richness:	Common Name Common			
Part D - Native Species Richness: (*list species bek Scientific Name Scientific Name	Image: Section of the sectio	Eucalyptus tereticornis Corymbia citriodora E.crebra E.propingua Lophostemon confertus Allocasuarina torulosa Shrub s Alphitonia excelsa L.confertus A.toruloso E.crebra Grass s Themeda australis Imperata cylindrica Cymbopogon refractus Forbs and others (non Breynia oblongifolia	pecies richness:	Common Name Common		Dianelia caerule	
Part D - Native Species Richness: (*list species beid Part D - Native Species Richness: (*list species beid Scientific Name Scientific Name		Eucalyptus tereticornis Corymbia citriodora E.crebra E.propingua Lophostemon confertus Allocasuorina torulosa Milocasuorina torulosa Shrub s Alphitonia excelsa L.confertus A.torulosa E.crebra Grass s Themeda australis Imperata cylindrica Cymbopogon refractus Forbs and others (non Breynia oblongifolia Gahnia espera	pecies richness:	Common Name Common		Dianelia caerule	
Part D - Native Species Richness: (*list species bek Part D - Native Species Richness: (*list species bek Scientific Name Scientific Name		Eucalyptus tereticornis Corymbia citriodora E.crebra E.propingua Lophostemon confertus Allocasuarina torulosa Milocasuarina torulosa Alphitonia exceisa L.confertus A.torulosa E.crebra Grass s Themeda australis Imperata cylindrica Cymbopogon refractus Forbs and others (non Breynia oblongifolia Gahnia aspera Personia sp Desmodium rhytophyllum	pecies richness:	Common Name Common		Dianelia caerule	
Part D - Native Species Richness: (*list species bek otal number of species Scientific Name Scientific Name		Eucalyptus tereticornis Corymbia citriodora E.crebra E.propingua Lophostemon confertus Allocasuarina torulosa Manager and anterest Alphitonia excelsa L.confertus A.toriolosa E.crebra Grass s Themeda australis Imperata cylindrica Cymbopogon refractus Forbs and others (non Breynia oblongifolia Gahnia aspera Personia sp	pecies richness:	Common Name Common		Dianelia caerule	

Part E - Non-Native Plant Cover: (*list species below)

Total percentage cover within plot		36.50%	
Scientific Name	Lantana camara	Common Name	
Scientific Name	Ligustrum lucidium	Common Name	
Scientific Name	Opuntia tomentosa	Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	

Total Length of Course Woody Debris (Meters):		1260.00	
1	10.00	26	
2	2.00	27	
3	100.00	28	
4	2.00	29	
5	2.00	30	
6	5.00	31	
7	3.00	32	
8	2.00	33	
9		34	
10		35	
11		36	
12		37	
13		38	
14		39	
15		40	
16		41	
17		42	
18		43	
19		44	
20		45	
21		46	
22		47	
23		48	
24		49	
25		50	

Part G - Native perennial grass cover, organic litter: (*provide percentage cover within each quadrat, and provide average cover)

Native perennial grass cover	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4	Quadrat 5	Average
Native perennial grass cover	1.00%	5.00%	5.00%	1.00%	20.00%	6.40%
Organic Litter	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4	Quadrat 5	Average
Organic Litter	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%

Part H- Number of large trees , tree canopy height, recruitment of woody perennial species:									
Eucalypt Large tree DBH benchmark used :			Non- Eucalypt Large tree DBH benchmark used:	26					
Number of large eucalypt trees:		18		Number of large non eucalypt trees:		2			
Total Number Large Trees:				18					
Median Tree Canopy Height Measurements	Canopy:	22.00	Sub-canopy:	7.00	Emergent:	0.00			
Number of ecologically domina	ant layer species regenerating:				33		-		
Part I - Tree canopy cover, Shrub canopy cover	Part I - Tree canopy cover, Shrub canopy cover								
Tree canopy cover %	Canopy:	62.00%	Sub-canopy:	20.00%	Emergent:	0.00%			
Shrub canopy cover %				12.00%					

Note: Only assess Emergent (E) or Subcanopy (5) layers if the benchmark document stipulates that layers are present "If trees are in the same layer and continuous along the transect you can group them

Part J - Site Context Score

ATTRIBUTE	Size of Patch	Connectedness	Context	Distance to Permanent Water	Ecological Corridors
DESCRIPTION	5 - >200ha	4 - >75% or >500ha connection	4 - >75% remnant	1 - 0-500m	3 - Within (whole or part)
SCORE	10	5	5	0	6

DOES THIS ASSESSMENT UNIT ALSO CONTAIN A SPECIES HABITAT REQUIREMENT.

YES 🛛 PLEASE COMPLETE SPECIES HABITAT INDEX DETAILS BELOW AND THEN ATTACH LANDSCAPE PHOTOS AND SUBMIT AS DIRECTED

NO 🛛 PLEASE ATTACH LANDSCAPE PHOTOS BELOW AND SUBMIT AS DIRECTED

No Species Name CommonName NCA Status Attributes Threats to species food and foraging habitat shelter capacity to overall population of the shelter capacity of the overall population of the overall po		Species Habitat Attributes									
Phascolarctos cinereuskoalaSLDescription2* Moderate tinered leel3 - High3 - Highrestricted (26 - SN) restricted (26 - SN) SoreRestricted (26 - SN) SoreRestricted (26 - SN) Sor	No	Species Name	CommonName	NCA Status	Attributes	Threats to species				Role of site location to overall population	
$ \frac{2}{3} \\ \frac{3}{3} \\ 3$	1	Phascolarctos cinereus	koala	SL	Description		3 - High	3 - High	restricted (26 – 50%	2 - Likely to be critica to species' survival	
$ \begin{array}{c c c c c c c } 2 & \hline \\ 2 & \hline \\ 3 & \hline \\ 3 & \hline \\ 3 & \hline \\ 4 & \hline \\ 5 & \hline \\ 6 & \hline \\ 7 & \hline 7 & \hline \\ 7 & \hline 7 & \hline \\ 7 & \hline 7$						7	10	10	7	4	
$ \begin{array}{c c c c c c c } \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	2				Description						
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	-										
$ \begin{array}{c c c c c c c } \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	3										
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$ \frac{5}{5 cre} = 1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	4										
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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	5										
$ \frac{6}{500} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $,										
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8 Description Image: Constraint of the second of the seco	7										
8 Score Score Image: Constraint of the state of	•										
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9 Score Score Image: Constraint of the state of	Ŭ										
10 Description March Mar	9										
10 Score Score	-										
	10										
Maximum Score 7.00 10.00 7.00 4.00					Score						
HRAMMAIN SCOPE 7.00 20.00 7.00 4.00					Maximum Score	7.00	10.00	10.00	7.00	4.00	
					Maximum Score	7.00	10.00	10.00	7.00	4.00	

Habitat Quality Site Assessment Template				PLEASE NOTE - YE	LLOW INDICATES AN	I AUTO POPULATED FIEL	.D
For all environmental offset applications you must: Complete form (Environmental Offsets Delivery)	Form 1- Notice of Election and	Advanced Offsets Details)					
 Complete any other forms relevant to your appl 		navancea onsea beansy					
 Provide the mandatory supporting information i 	identified on the forms as being	g required to accompany you	ur application				
h in farmer in som ford farmer anderste blande at her blande at setting in		discussed offered sides					
his form is useful for undertaking a habitat quality analys lease note that this form should be completed individually							
· · · · · · · · · · · · · · · · · · ·	,						
Is this Assessment for:	An Impact Site		An Offset Site		an Advanced Offset Site		
		Hobitat Quality Ass	sessment Unit Score She	o.t			
		Habitat Quality Ass	sessment onit score sne	et			
art A - Administrative							
Case reference				Project Name			
Ant P. Nominated Annyaach (FOR IMPACT SITE ONLY)							
art B – Nominated Approach (FOR IMPACT SITE ONLY)							
lease Select Your Nominated approach:		Rapid approach		Standard Approach			
i) Rapid Assessment					. (ENTER BVG FROM DRO		
ij Rapiu Assessment						-bown List below)	
Enter BVG:					Presumed HQ Equals		
					Presumeu no Equais		
ii) Standard Assessment					. (COMPLETE REMAINDER		
iij Standard Assessment							
art C - Sito Data							
art C - Site Data Property		Meads		Date			
Property		INICOUS		Date	31/03/20		
Assessment Unit:	Assessment U	Init Area (ha)	RE		Bioregion	Number	
6	10		12.12.23		Southeast Q		
Landscape Photo- Please attach or i	insert north, south, east and west	t photos in the spaces provided	d from row 231-355 below	and include details such as T	ime and Mapping Coordinate	es in the following row.	
			•				
atum		70	one		sting	Northing	_
GS 84	0m Mark		56		2.1104	-27.3584	
DA 94	50m Mark		one		sting	Northing	
L.	Som Wark				2.1106	-27.3574	
Plot bearing				Recorders		BC	
	Cite descriptio	on and Location (including deta	alla of discosts and second	tin the second set (a)			
				12.12.23)			
				(21223)			
Part D - Native Species Richness: (*list species below)							
		Tree sp	pecies richness:				
stal number of species				6			
stal number of species Scientific Name		Tree sp Eucolyptus tereticomis Eucolyptus tereticomis		6 Common Name			
tal number of species		Eucalyptus tereticornis		6			
tal number of species Scientific Name Scientific Name		Eucalyptus tereticornis Eucalyptus major Eucalyptus biturbinata Eucalyptus carnea		6 Common Name Common Name			
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tal number of species Scientific Name Scientif		Eucolyptus tereticomis Eucolyptus major Eucolyptus biturbineta Eucolyptus come of Eucolyptus acmenoides Allacasuarina littoralis Allocasuarina littoralis Accola sp. Trema tamentasa E.tereticornis E.tereticornis E.tereticornis E.tereticornis E.tereticornis	secies richness:	6 Common Name Comm			
Scientific Name Scientific Na		Eucolyptus tereticomis Eucolyptus major Eucolyptus biturbineta Eucolyptus come of Eucolyptus acmenoides Allacasuarina littoralis Allocasuarina littoralis Accola sp. Trema tamentasa E.tereticornis E.tereticornis E.tereticornis E.tereticornis E.tereticornis	secies richness:	6 Common Name Comm			

Forbs and others (non grass ground) species richness:								
Total number of species 6								
Scientific Name	Pomax umbellata	Pomax umbellata Common Name						
Scientific Name	Gahnia aspera Common Name							
Scientific Name	Trema tomentosa	Common Name						

Scientific Name		Lomandra longifolia		Common Name		
Scientific Name		Dianella caerulea		Common Name		
Scientific Name		Smilax australis		Common Name		
		Sinnax australis				
Scientific Name				Common Name		
Part E - Non-Native Plant Cover: (*list species below)						
Total percentage cover within plot	1			61.50%		
Scientific Name		Lantana camara		Common Name		
Scientific Name		L. montevidensis		Common Name		
Scientific Name		Ligustrum lucidium		Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name	1					
Scientific Name						
Scientific Name						
Scientific Name				Common Name		
Scientific Name						
Scientific Name				Common Name		
art F - Coarse Woody Debris: (*list lengths of individual	logs in meters)					
Total Length of Course Woody Debris (Meters):	A			400.00		
1		10.00		26		
2	1	5.00		27		
3	1	5.00				
	4			28		
4	4	5.00		29		
5		8.00		30		
6		2.00		31		
7		3.00		32		
8		2.00		33		
9				34		
10				35		
11				36		
12	1			37		
	-					
13				38		
14				39		
15	1			40		
16				41		
17				42		
18				43		
19	1			44		
20	1			45		
21				46		
22				47		
23				48		
24				49		
25				50		
23	<u></u>			30		
art G - Native perennial grass cover, organic litter: (*pr						
	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4	Quadrat 5	Average
Native perennial grass cover	0.00%	0.00%	5.00%	20.00%	30.00%	11.00%
	Oversteet 1	Quadrat 2	Quadrat 3	Quadrat 4	Quadrat 5	A
Organic Litter	Quadrat 1					Average
	80.00%	80.00%	85.00%	70.00%	10.00%	65.00%
Part H- Number of large trees , tree canopy height, rec	ruitment of woody perennial	species:				
		·				
Eucalypt Large tree DBH benchmark used :		52		Non-Eucalypt Large tree		26
				DBH benchmark used:		
	22			Number of large non		
Number of large eucalypt trees:	4	22		eucalypt trees:		2
tal Number Large Trees:				22		
0						
P = A = 11 * 1 + 44						
edian Tree Canopy Height Measurements	Canopy:	20.00	Sub-canopy:	12.00	Emergent:	0.00
	nant layer species regenerating:				33	
Number of ecologically domin						
Number of ecologically domin						
	· · · · ·					
art I - Tree canopy cover, Shrub canopy cover				10.504	-	0.00%
	Canopy:	38.00%	Sub-canopy:	10.50% 30.00%	Emergent:	0.00%

Part J - Site Context Score					
ATTRIBUTE	Size of Patch	Connectedness	Context	Distance to Permanent Water	Ecological Corridors
DESCRIPTION	5 - >200ha	4 - >75% or >500ha connection	4 - >75% remnant	1 - 0-500m	3 - Within (whole or part)
SCORE	10	5	5	0	6
SLURE	10	5	3	U	6

DOES THIS ASSESSMENT UNIT ALSO CONTAIN A SPECIES HABITAT REQUIREMENT.

YES 🛛 🖂 PLEASE COMPLETE SPECIES HABITAT INDEX DETAILS BELOW AND THEN ATTACH LANDSCAPE PHOTOS AND SUBMIT AS DIRECTED

NO 🛛 PLEASE ATTACH LANDSCAPE PHOTOS BELOW AND SUBMIT AS DIRECTED

			Species Hab	itat Attributes		Quality and availability of	o 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 1 1 1 1	
No	Species Name	CommonName	NCA Status	Attributes		food and foraging habitat			Role of site location to overall population
1	Phascolarctos cinereus	koala	SL	Description	2 - Moderate threat level	3 - High	3 - High	2 - Highly restricted (51% - 75% reduction)	2 - Likely to be critical to species' survival
				Score	7	10	10	4	4
2				Description					
-				Score					
3				Description					
-				Score					
4				Description					
-				Score					
5				Description					
-				Score					
6				Description					
				Score					
7				Description					
				Score					
8				Description					
				Score					
9				Description					
				Score					
10				Description					
				Score					
			1		-				-
				Maximum Score	7.00	10.00	10.00	4.00	4.00

Habitat Quality Site Assessment Template For all environmental offset applications you must: • Complete form (Environmental Offsets Delivery) • Complete any other forms relevant to your appli • Provide the mandatory supporting information in This form is useful for undertaking a habitat quality analysi Please note that this form should be completed individually	Form 1– Notice of Election and a ication dentified on the forms as being is of an impact and/or offset/ad	Advanced Offsets Details) required to accompany you dvanced offset site.		PLEASE NOTE - YE	LLOW INDICATES AN /	AUTO POPULATED FIELD	
Is this Assessment for:	An Impact Site		An Offset Site		an Advanced Offset Site		
		Habitat Quality Ass	sessment Unit Score Shee	et			
Part A - Administrative							
Case reference				Project Name			
Part B – Nominated Approach (FOR IMPACT SITE ONLY)							
Please Select Your Nominated approach:		Rapid approach		Standard Approach			
i) Rapid Assessment					(ENTER BVG FROM DROP-	DOWN LIST BELOW)	
Enter BVG:					Presumed HQ Equals		
ii) Standard Assessment					(COMPLETE REMAINDER C	DF FORM)	
Part C - Site Data							
Property		Meads		Date	31/3/21		
Assessment Unit:	Assessment Un	nit Area (ha)	RE		Bioregion N	umher	
7	Assessment on 35		12.9-10.17	Bioregion Number Southeast Queensland			
Landscape Photo- Please attach or in	insert north, south, east and west	photos in the spaces provide	d from row 231-355 below	and include details such as 1	Time and Mapping Coordinates	in the following row.	
		· · · ·					
Datum		Zc	one	E	asting	Northing	
WGS 84	0m Mark	5	56	15	2.1168	-27.3526	
GDA 94	50m Mark	Zo	one	Ea	asting	Northing	
Plot bearing		İ		Recorders			
12.9-10.17c: Open forest of Eucalyptus carnea and/or E. tindalia and E. g			Eucalyptus crebra, Eucalyptu	ıs major, Corymbia henryi, A		bhloia, E. siderophloia, E. microcorys, E. resinifera	

	Tree species richness		
al number of species		8	
Scientific Name	Corymbia citriodora	Common Name	
Scientific Name	Angophora leiocarpa	Common Name	
Scientific Name	Eucalyptus tindaliae	Common Name	
Scientific Name	E.carnea	Common Name	
Scientific Name	E. acmeniodes	Common Name	
Scientific Name	E.siderophloia	Common Name	
Scientific Name	E.microcorys	Common Name	
Scientific Name	Lophostemon confertus	Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
	Shrub species richnes	5:	
number of species		3	
Scientific Name	Allocasuarina littoralis	Common Name	
Scientific Name	Lophostemon confertus	Common Name	
Scientific Name	Alphitonia excelsa	Common Name	
Scientific Name	,	Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Sciencinc Name		Common Name	
	Grass species richness		
number of species	Grass species ricilles:	2	
Scientific Name	Themeda australis	Common Name	
Scientific Name	Cymbopogon refractus	Common Name	
Scientific Name	cymoopogon rejtactas		
		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name Common Name	
Scientific Name			
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
	# . I I		
	Forbs and others (non grass ground)		
al number of species	A	8	
Scientific Name	Persoonia sericea	Common Name	Desmodium rhytidophyllum
Scientific Name	Lepidosperma laterale	Common Name	
Scientific Name	Goodenia rotundifolia	Common Name	

Scientific Name		Pomax umbellata		Common Name		
Scientific Name Scientific Name		Gahnia aspera Smilax australis		Common Name Common Name		
Scientific Name	·	Smilax australis		Common Name		
Part E - Non-Native Plant Cover: (*list species below)						
Total percentage cover within plot				18.50%		
Scientific Name		Lantana camara		Common Name		
Scientific Name		Opuntia stricta				
Scientific Name				Common Name Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
art F - Coarse Woody Debris: (*list lengths of individual	logs in meters)					
Total Length of Course Woody Debris (Meters):				420.00		
1	L	12.00		26		
2	L	15.00		27		
3	L	5.00		28		
4		4.00		29		
5		6.00		30		
6				31		
7				32		
8				33		
9				34		
10				35		
11				36		
12				37		
13				38		
14				39		
15				40		
16				41 42		
17 18				42 43		
18				43		
20				44		
21				45		
22				40		
23				48		
24				49		
25				50		
	L					
art G - Native perennial grass cover, organic litter: (*pro	vide percentage cover within (each quadrat, and provide	average cover)			
	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4	Quadrat 5	Average
Native perennial grass cover	10.00%	5.00%	1.00%	1.00%	1.00%	3.60%
	p			•		
Organia Littar	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4	Quadrat 5	Average
Organic Litter	75.00%	90.00%	50.00%	100.00%	100.00%	83.00%
Part H- Number of large trees , tree canopy height, recr	uitment of woody perennial sp	pecies:				
Furthert Lange tree DBUL has showed as a	1					N/A
Eucalypt Large tree DBH benchmark used :	44cm			Non-Eucalypt Large tree DBH benchmark used:		N/A
Number of large eucalypt trees:	L	27		Number of large non eucalypt trees:		N/A
otal Number Large Trees:				18		
			6 h	12.00	Emergent:	0.00
ledian Tree Canopy Height Measurements	Canopy:	20.00	Sub-canopy:	12.00	emergent.	
		20.00	Sub-canopy:	12.00		
ledian Tree Canopy Height Measurements Number of ecologically domin		20.00	Sub-canopy:	12.00	13	
Number of ecologically domin		20.00	Sub-canopy:	12.00		
Number of ecologically domin art I - Tree canopy cover, Shrub canopy cover	ant layer species regenerating:	• 	1		13	
Number of ecologically domin		20.00	Sub-canopy:	12.00 13.50% 16.50%		6.00%

Part J - Site Context Score					
ATTRIBUTE	Size of Patch	Connectedness	Context	Distance to Permanent Water	Ecological Corridors
DESCRIPTION	5 - >200ha	4 - >75% or >500ha connection	4 - >75% remnant	1 - 0-500m	3 - Within (whole or part)
SCORE	10	5	5	0	6

DOES THIS ASSESSMENT UNIT ALSO CONTAIN A SPECIES HABITAT REQUIREMENT.

YES 🛛 PLEASE COMPLETE SPECIES HABITAT INDEX DETAILS BELOW AND THEN ATTACH LANDSCAPE PHOTOS AND SUBMIT AS DIRECTED

NO 🛛 PLEASE ATTACH LANDSCAPE PHOTOS BELOW AND SUBMIT AS DIRECTED

			Species Ha	bitat Attributes					
No	Species Name	CommonName	NCA Status	Attributes		Quality and availability of food and foraging habitat		Species mobility capacity	Role of site location to overall population
1	Phascolarctos cinereus	koala	SL	Description	2 - Moderate threat level	3 - High	3 - High	3 - Moderately restricted (26 – 50% reduction)	2 - Likely to be criti to species' survive
				Score	7	10	10	7	4
2				Description					
-				Score					
3				Description					
,				Score					
4				Description					
				Score					
5				Description					
,				Score					
6				Description					
-				Score					
7				Description					
-				Score					
8				Description					
				Score					
9				Description					
-				Score					
10				Description					
				Score					
				Maximum Score	7.00	10.00	10.00	7.00	4.00
				Maxinfulli Score	2.00	10.00	10.00	7.00	4.00

Habitat Quality Site Assessment Templat For all environmental offset applications you must: Complete form (Reivonmental Offsets Deli Complete any other forms relevant to your Provide the mandatory supporting informat This form is useful for undertaking a habitat quality an Please note that this form should be completed indivi	very Form 1– Notice of Election and application tion identified on the forms as being nalysis of an impact and/or offset/a	Advanced Offsets Details) required to accompany you dvanced offset site.		PLEASE NOTE - YE	LLOW INDICATES AN	I AUTO POPULATED FIELD
Is this Assessment for:	An Impact Site		An Offset Site		an Advanced Offset Site	
		Habitat Quality Ass	essment Unit Score Shee	•t		
Part A - Administrative						
Case reference				Project Name		
Part B – Nominated Approach (FOR IMPACT SITE ONI	(V)					
Please Select Your Nominated approach:		Rapid approach		Standard Approach		
i) Rapid Assessment					(ENTER BVG FROM DROI	P-DOWN LIST BELOW)
Enter BVG:					Presumed HQ Equals	
ii) Standard Assessment					(COMPLETE REMAINDER	OF FORM)
Part C - Site Data						
Property		Meads		Date	31/3/21	
Assessment Unit:	Assessment U	nit Aroa (ba)	RE		Bioregion	Number
8	10		12.12.3		Southeast Q	
Lanoscape Photo- Please attac	h or insert north, south, east and west	photos in the spaces provided	from row 231-355 below a	ind include details such as	lime and Mapping Coordinate	is in the following row.
Datum	0m Mark	Zor		E	asting	Northing
Datum WGS 84 GDA 94		Zoi 5/ Zoi	5	15	asting 2.1205 asting	Northing -27.3536 Northing
WGS 84 GDA 94 G	Om Mark 50m Mark	56	5	15 E	2.1205	-27.3536 Northing
WGS 84	50m Mark Site descriptio	50 Zor Zor n and Location (including detai	5 ne ils of discrete polygons wit)	15 Ei Recorders nin the assessment unit)	2.1205 asting	-27.3536 Northing BC
WGS 84 GDA 94 Plot bearing	50m Mark Site descriptio	n and Location (including detai le Corymbia citriodora subsp. va orymbia intermedia, C. trachyp	5 ne ils of discrete polygons with iriegata, Eucalyptus crebra (hloia, Eucalyptus tereticorni	15 Recorders in the assessment unit) drier sub coastal ranges) or s, E, propinqua, E, moluccar	2.1205 asting Eucalyptus siderophloia, E. ma a, E. decolor, E. melliodora, E.	-27.3536 Northing BC Ijor and/or E. longirostrata, E. acmenoides or E. carnea, E. fibrosa aubop, fibrosa and Angophora
WGS 84 GDA 94 Piot bearing Open forest complex in which spotted gum is a relative portuensis, E. eugenioides. Hills and ranges. Other speci leiocarpa. Lophostemon confertus (tree form and whip	50m Mark Site descriptio hy common species. Canopy trees include les that may be present locally include C stick form) often present in guilles or as	s in 200 n and Location (including deta e Corymbia citriodora subsp. v. orymbia intermedia, C. trachyp a sub-canopy or canopy tree es	5 ne ils of discrete polygons with iriegata, Eucalyptus crebra (hloia, Eucalyptus tereticorni	15 E Recorders In the assessment unit) difer sub cossnet arranges) or s, E. propinqua, E. moluccar inderstorey of grasses, shrul	2.1205 asting Eucalyptus siderophloia, E. ma a, E. decolor, E. melliodora, E.	-27.3536 Northing BC Ijor and/or E. longirostrata, E. acmenoides or E. carnea, E. fibrosa aubop, fibrosa and Angophora
WGS 84 GDA 94 Plot bearing Plot bearing Open forest complex in which spotted gum is a relative portuensis, E. eugenioides. Hills and ranges. Other speci leiocarpa. Lophostemon confertus (tree form and whip	50m Mark Site descriptio hy common species. Canopy trees include les that may be present locally include C stick form) often present in guilles or as	St Zor and Location (including deta combia citradora subp. or orymbia intermedia, C. trachyp a sub-canopy or canopy tree es	5 se ils of discrete polygons with riegata, Eucalyptus crebra (hloia, Eucalyptus tereticorni pecially on granite. Mixed u	15 Recorders in the assessment unit) drier sub coastal ranges) or s, E, propinqua, E, moluccar	2.1205 asting Eucalyptus siderophloia, E. ma a, E. decolor, E. melliodora, E.	-27.3536 Northing BC Ijor and/or E. longirostrata, E. acmenoides or E. carnea, E. fibrosa autop, fibrosa and Angophora
WGS 84 GDA 94 Plot bearing Plot bearing Open forest complex in which spotted gum is a relative portuensis, E. eugenioides. Hills and ranges. Other speci leiocarpa. Lophostemon confertus (tree form and whip leiocarpa. Lophostemon confertus (tree form and whip Part D - Native Species Richness: (*list species below Total number of species Scientific Name Scientific Name	50m Mark Site descriptio hy common species. Canopy trees include les that may be present locally include C stick form) often present in guilles or as	Si Zor Zor and Location (including detat e Corymbia citrodora subap. v. orymba intermedia, C. trachyp a sub-canopy or canopy tree es a sub-canopy or canopy tree es a sub-canopy or canopy tree es Corymbia citrodora Angophora leiocarpa	5 se ils of discrete polygons with riegata, Eucalyptus crebra (hloia, Eucalyptus tereticorni pecially on granite. Mixed u	9 Common Name Common Name	2.1205 asting Eucalyptus siderophloia, E. ma a, E. decolor, E. melliodora, E.	-27.3536 Northing BC IJor and/or E. longirostrata, E. acmenoides or E. carnea, E. fibrosa aubsp. fibrosa and Angophora
WGS 84 GDA 94 Plot bearing Open forest complex in which spotted gum is a relative portuensis, E. eugenioides. Hills and ranges. Other speci leiocarpa. Lophostemon confertus (tree form and whip leiocarpa. Lophostemon confertus (tree form and whip Part D - Native Species Richness: (*list species below Total number of species Scientific Name Scientific Name	50m Mark Site descriptio hy common species. Canopy trees include les that may be present locally include C stick form) often present in guilles or as	Signature State St	5 se ils of discrete polygons with riegata, Eucalyptus crebra (hloia, Eucalyptus tereticorni pecially on granite. Mixed u	9 Common Name Common Name	2.1205 asting Eucalyptus siderophloia, E. ma a, E. decolor, E. melliodora, E.	-27.3536 Northing BC IJor and/or E. longirostrata, E. acmenoides or E. carnea, E. fibrosa aubsp. fibrosa and Angophora
WGS 84 GDA 94 Plot bearing Plot bearing Open forest complex in which spotted gum is a relative portuensis, E. eugenioides. Hills and ranges. Other speci leiocarpa. Lophostemon confertus (tree form and whip leiocarpa. Lophostemon confertus (tree form and whip Part D - Native Species Richness: (*list species below Total number of species Scientific Name Scientific Name	50m Mark Site descriptio hy common species. Canopy trees include les that may be present locally include C stick form) often present in guilles or as	Si Zor Zor and Location (including detat e Corymbia citrodora subap. v. orymba intermedia, C. trachyp a sub-canopy or canopy tree es a sub-canopy or canopy tree es a sub-canopy or canopy tree es Corymbia citrodora Angophora leiocarpa	5 se ils of discrete polygons with riegata, Eucalyptus crebra (hloia, Eucalyptus tereticorni pecially on granite. Mixed u	9 Common Name Common Name	2.1205 asting Eucalyptus siderophloia, E. ma a, E. decolor, E. melliodora, E.	-27.3536 Northing BC IJor and/or E. longirostrata, E. acmenoides or E. carnea, E. fibrosa aubsp. fibrosa and Angophora
WGS 84 GDA 94 Plot bearing Plot bearing Open forest complex in which spotted gum is a relative portuensis, E. eugenioides. Hills and ranges. Other speci leiocarpa. Lophostemon confertus (tree form and whip leiocarpa. Lophostemon confertus (tree form and whip Total number of species Scientific Name Sci	50m Mark Site descriptio hy common species. Canopy trees include les that may be present locally include C stick form) often present in guilles or as	Signature States	5 se ils of discrete polygons with riegata, Eucalyptus crebra (hloia, Eucalyptus tereticorni pecially on granite. Mixed u	9 Common Name Common Name Common Name	2.1205 asting Eucalyptus siderophloia, E. ma a, E. decolor, E. melliodora, E.	-27.3536 Northing BC Ijor and/or E. longirostrata, E. acmenoides or E. carnea, E. fibrosa autop, fibrosa and Angophora
WGS 84 GDA 94 Phot bearing Phot bearing Open forest complex in which spotted gum is a relative portunsis, E. eugenioides, Hills and ranges. Other speci leiocarpa. Lophostemon confertus (tree form and whip leiocarpa. Lophostemon confertus (tree form and whip Scientific Name Scientifi	50m Mark Site descriptio hy common species. Canopy trees include les that may be present locally include C stick form) often present in guilles or as	Si Zor Zor and Location (including detat ac Gorymbia citrodora subap. v. orymba intermedia, C. trachyp a sub-canopy or canopy tree es a sub-canopy or canopy tree es Conymbia citrodora Angophora leiocarpa Eucopypus tereticomis E.crebra Lophostemon confertus E.propinqua Aphritanie exclas	5 se ils of discrete polygons with riegata, Eucalyptus crebra (hloia, Eucalyptus tereticorni pecially on granite. Mixed u	9 9 0 Common Name	2.1205 asting Eucalyptus siderophloia, E. ma a, E. decolor, E. melliodora, E.	-27.3536 Northing BC Ijor and/or E. longirostrata, E. acmenoides or E. carnea, E. fibrosa autop, fibrosa and Angophora
WGS 84 GDA 94 Plot bearing Plot bearing Plot bearing Plot bearing Open forest complex in which spotted gum is a relative portuensis, E. eugenioides, Hills and ranges. Other speci leiocarpa. Lophostemon confertus (tree form and whip leiocarpa. Lophostemon confertus (tree form and whip Scientific Name S	50m Mark Site descriptio hy common species. Canopy trees include les that may be present locally include C stick form) often present in guilles or as	Signa	5 se ils of discrete polygons with riegata, Eucalyptus crebra (hloia, Eucalyptus tereticorni pecially on granite. Mixed u	9 Common Name Common Name Common Name Common Name	2.1205 asting Eucalyptus siderophloia, E. ma a, E. decolor, E. melliodora, E.	-27.3536 Northing BC IJor and/or E. longirostrata, E. acmenoides or E. carnea, E. fibrosa aubsp. fibrosa and Angophora
WGS 84 GDA 94 Phot bearing Phot bearing Open forest complex in which spotted gum is a relative portunsis, E. eugenioides, Hills and ranges. Other speci leiocarpa. Lophostemon confertus (tree form and whip leiocarpa. Lophostemon confertus (tree form and whip Scientific Name Scientifi	50m Mark Site descriptio hy common species. Canopy trees include les that may be present locally include C stick form) often present in guilles or as	Si Zor Zor and Location (including detat ac Gorymbia citrodora subap. v. orymba intermedia, C. trachyp a sub-canopy or canopy tree es a sub-canopy or canopy tree es Conymbia citrodora Angophora leiocarpa Eucopypus tereticomis E.crebra Lophostemon confertus E.propinqua Aphritanie exclas	5 se ils of discrete polygons with riegata, Eucalyptus crebra (hloia, Eucalyptus tereticorni pecially on granite. Mixed u	9 9 0 Common Name	2.1205 asting Eucalyptus siderophloia, E. ma a, E. decolor, E. melliodora, E.	-27.3536 Northing BC IJor and/or E. longirostrata, E. acmenoides or E. carnea, E. fibrosa aubsp. fibrosa and Angophora
WGS 84 GDA 94 Phot bearing hot bearing Phot bear	50m Mark Site descriptio hy common species. Canopy trees include les that may be present locally include C stick form) often present in guilles or as	S st 201 201 201 201 201 201 201 201	5 10 of discrete polygons with In of discrete polygons with India, Eucalyptus crebra India, Eucalyptus tereticomi pecially on granite. Mixed u ecles richness:	9 Common Name Common Name Common Name Common Name Common Name	2.1205 asting Eucalyptus siderophloia, E. ma a, E. decolor, E. melliodora, E.	-27.3536 Northing BC IJor and/or E. longirostrata, E. acmenoides or E. carnea, E. fibrosa aubsp. fibrosa and Angophora
WGS 84 GDA 94 Phot bearing hot bearing Phot beari	50m Mark Site descriptio hy common species. Canopy trees include les that may be present locally include C stick form) often present in guilles or as	S st 201 201 201 201 201 201 201 201	5 se ils of discrete polygons with riegata, Eucalyptus crebra (hloia, Eucalyptus tereticorni pecially on granite. Mixed u	9 Common Name Common Name Common Name Common Name Common Name	2.1205 asting Eucalyptus siderophloia, E. ma a, E. decolor, E. melliodora, E.	-27.3536 Northing BC Jjor and/or E. longirostrata, E. acmenoides or E. carnea, E. fibrosa subsp. fibrosa and Angophora

A.excelsa A.littoralis A.torulosa Acacia sp. Common Name Common Name Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name Common Name Common Name Common Name Common Name Common Name Scientific Name Scientific Name Common Name Common Name Total number of species Scientific Name Grass species richness: 2 Common Name Cymbopogon refractus Themeda australis Common Name Scientific Name Forbs and others (non grass ground) species richness: Total number of species 12 Scientific Name Scientific Name Scientific Name Scientific Name Solanum nigrum Desmodium rhytophyllum Breynia oblongifolia Hargenbergia violacae Alchornea ilicifolia Brachichyton populnus Senecio sp. Acacia sp. Common Name Common Name Common Name Common Name

Scientific Name		Persoonia sericea		Common Name		Dianella caerulea
Scientific Name		A.excelsa		Common Name		
Scientific Name		Cyprus sp.		Common Name		
art E - Non-Native Plant Cover: (*list species below)						
Total percentage cover within plot				21.50%		
Scientific Name		Lantana camara		Common Name		
Scientific Name		Bidens pilosa		Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
rt F - Coarse Woody Debris: (*list lengths of individual	logs in meters)					
Total Length of Course Woody Debris (Meters):				545.00		
1	2.00			26		
2		2.50		27		
3		7.00		28		
4		6.00		29		
5		10.00		30		
6		3.00		31		
7		2.00		32		
8		5.00		33		
9		6.00		34		
10		7.00		35		
11		4.00		36		
12		4.00		37		
12						
				38		
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15				40		
16				41		
17				42		
18				43		
19				44		
20				45		
21				46		
22				47		
23				48		
24				49		
25				50		
	,			~		
t G - Native perennial grass cover, organic litter: (*pro	wide nercentage cover within	each quadrat and provide s	verage cover)			
	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4	Quadrat 5	Average
Native perennial grass cover	10.00%	40.00%	40.00%	40.00%	25.00%	31.00%
	10.00%	40.00%	40.00%	40.00%	23.00%	51.00%
	Quedret 1	Quedrat 2	Quadrat 2	Quedrat 4	Quadrat F	Auerage
Organic Litter	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4	Quadrat 5	Average
	40.00%	40.00%	40.00%	50.00%	75.00%	49.00%
art H- Number of large trees , tree canopy height, recr	uitment of woody perennial s	pecies:				
0	10 mm		Non-Eucalypt Large tree		N/A	
	40cm			DBH benchmark used:		n/A
Eucalypt Large tree DBH benchmark used :						
Eucalypt Large tree DBH benchmark used :				Number of large non		
		15		Number of large non eucalypt trees:		0
Eucalypt Large tree DBH benchmark used : Number of large eucalypt trees:		15		eucalypt trees:		0
Eucalypt Large tree DBH benchmark used : Number of large eucalypt trees:		15				0
Eucalypt Large tree DBH benchmark used :	Canopy:	15	Sub-canopy:	eucalypt trees:	Emergent:	0

 Canopy:
 67.00%
 Sub-canopy:
 26.00%
 Emergent:

 27.00%
 27.00%
 27.00%
 27.00%
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Part J - Site Context Score					
ATTRIBUTE	Size of Patch	Connectedness	Context	Distance to Permanent Water	Ecological Corridors
DESCRIPTION	2 - 5 - 25ha	4 - >75% or >500ha connection	1 - <10% remnant	1 - 0-500m	3 - Within (whole or part)
SCORE	2	5	0	0	6

DOES THIS ASSESSMENT UNIT ALSO CONTAIN A SPECIES HABITAT REQUIREMENT.

Part I - Tree canopy cover, Shrub canopy cover Tree canopy cover %

Shrub canopy cover %

YES 🛛 PLEASE COMPLETE SPECIES HABITAT INDEX DETAILS BELOW AND THEN ATTACH LANDSCAPE PHOTOS AND SUBMIT AS DIRECTED

NO 🛛 PLEASE ATTACH LANDSCAPE PHOTOS BELOW AND SUBMIT AS DIRECTED

			Species Ha	bitat Attributes					
No	Species Name	CommonName	NCA Status	Attributes		Quality and availability of food and foraging habitat		Species mobility capacity	Role of site location to overall population
1	Phascolarctos cinereus	koala	SL	Description	2 - Moderate threat level	3 - High	3 - High	4 - Minor restriction (0 – 25% reduction)	2 - Likely to be critica to species' survival
				Score	7	10	10	10	4
2				Description					
2				Score					
3				Description					
,				Score					
4				Description					
				Score					
5				Description					
,				Score					
6				Description					
Ű				Score					
7				Description					
· ·				Score					
8				Description					
-				Score					
9				Description					
				Score					
10				Description					
				Score					
					_				
				Maximum Score	7.00	10.00	10.00	10.00	4.00

Habitat Quality Site Assessment Template...

PLEASE NOTE - YELLOW INDICATES AN AUTO POPULATED FIELD

For all environmental offset applications you must Complete form (Environmental Offsets Delivery Form 1– Notice of Election and Advanced Offsets Details)
 Complete any other forms relevant to your application
 Provide the mandatory supporting information identified on the forms as being required to accompany your application

This form is useful for undertaking a **habitat quality analysis** of an impact and/or offset/advanced offset site. Please note that this form should be completed individually for each assessment unit under consideration.

Is this Assessment for: An Impact Site An Offset Site an Advanced Offset Site

Habitat Quality Assessment Unit Score Sheet Г Part A - Administrative Case reference Project Name Part B – Nominated Approach (FOR IMPACT SITE ONLY) ease Select Your Nominated approach: Rapid approach Standard Approach Rapid Assessment (ENTER BVG FROM DROP-DOWN LIST BELOW) i) Enter BVG: Presumed HQ Equals ii) Standard Assessment Part C - Site Data Property Meads 31/3/21 nt Unit Area (ha) **Bioregion Num** essment Unit 12.3.7 Landscape Photo-Please attach or insert north, south, east and west photos in the spaces provided from row 231-355 below and include details such as Time and Mapping Coordinates in the following row. <u>Datum</u> WGS 84 GDA 94 Zone Easting Northing 0m Mark 152.108 Zone Easting Northing 50m Mark Plot bearing Recorders NW

Site description and Location (including details of discrete polygons within the assessment unit)
Narrow fringing woodland of Eucalyptus tereticomis, Casuarina cunninghamiana subsp. cunninghamiana +/. Melaleuca wimalta. Other species associated with this RE include Melaleuca bracteata, M. trichostachya, M. linarifolia. North of Brisbane Waterhousea
foribunda commonly occurs and may at times dominate this RE. Melaleuca fluviatilis occurs in this RE in the more of the bioregion. Lomandra hyptirx often present in stream beds. Occurs on finging levees and banks of rivers and drainage lines of alluvial plains
throughout the region. (BVG1M: 16a)

	Tree species richness		
otal number of species	· · · · · · · · · · · · · · · · · · ·	4	
Scientific Name	Eucalyptus tereticornis	Common Name	
Scientific Name	Casuarina cunninghamiana	Common Name	
Scientific Name	E. robusta	Common Name	
Scientific Name	Melaleuca viminalis	Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
	Shrub species richnes	8	
otal number of species		0	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
	Grass species richness	:	
otal number of species		0	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
	Forbs and others (non grass ground)	•	
tal number of species		0	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	
Scientific Name		Common Name	

Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Part E - Non-Native Plant Cover: (*list species below)						
Total percentage cover within plot				90.00%		
Scientific Name		Ligustrum lucidium		Common Name		
Scientific Name				Common Name		
Scientific Name	1			Common Name		
Scientific Name	1			Common Name		
Scientific Name	1			Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name				Common Name		
Scientific Name	4			Common Name		
Scientific Name	4			Common Name		
art F - Coarse Woody Debris: (*list lengths of individual	logs in meters)					
Total Length of Course Woody Debris (Meters):				0.00		
1				26		
2				27		
3				28		
4				29		
5				30		
6				31		
7				32		
8		-		33		
9	1			34		
10				35		
11				36		
12				37		
13	1			38		
13				38		
15	4			40		
16	4			41		
17	L			42		
18				43		
19				44		
20				45		
21				46		
22				47		
23	1			48		
24	1			49		
25				50		
art G - Native perennial grass cover, organic litter: (*pro	vide percentage cover within	each quadrat, and provide	average cover)			
	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4	Quadrat 5	Average
Native perennial grass cover	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Quadrat 1	Quadrat 2	Quadrat 3	Quadrat 4	Quadrat 5	Average
Organic Litter	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070
Part H- Number of large trees , tree canopy height, recr	uitment of woody nerennial o	neries.				
are an another of large trees, tree canopy leight, let	and the second s					
Eucalypt Large tree DBH benchmark used :		51cm		Non-Eucalypt Large tree		36cm
				DBH benchmark used:		
Number of large eucalypt trees:		3		Number of large non		3
				eucalypt trees:		-
tal Number Large Trees:				6		
				-		
	Canopy:	25.00	Sub-canopy:	7.00	Emergent:	0.00
edian Tree Canopy Height Measurements						
edian Tree Canopy Height Measurements						
	ant layer species regenerating:				0	
	ant layer species regenerating:				0	
	ant layer species regenerating:		L		0	
Number of ecologically domin	nant layer species regenerating: Canopy:	15.00%	Sub-canopy:	0.00%	0 Emergent:	0.00%

Part J - Site Context Score					
ATTRIBUTE	Size of Patch	Connectedness	Context	Distance to Permanent Water	Ecological Corridors
DESCRIPTION	2 - 5 - 25ha	4 - >75% or >500ha connection	4 - >75% remnant	1 - 0-500m	3 - Within (whole or part)
SCORE	2	5	5	0	6

DOES THIS ASSESSMENT UNIT ALSO CONTAIN A SPECIES HABITAT REQUIREMENT.

YES 🛛 PLEASE COMPLETE SPECIES HABITAT INDEX DETAILS BELOW AND THEN ATTACH LANDSCAPE PHOTOS AND SUBMIT AS DIRECTED

NO 🛛 PLEASE ATTACH LANDSCAPE PHOTOS BELOW AND SUBMIT AS DIRECTED

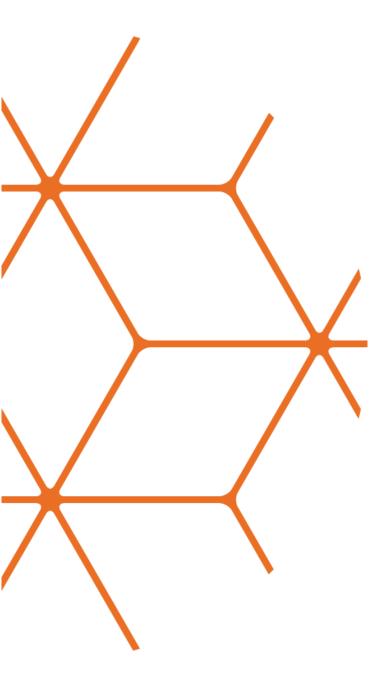
			Species Ha	bitat Attributes					
No	Species Name	CommonName	NCA Status	Attributes		Quality and availability of food and foraging habitat		Species mobility capacity	Role of site location to overall population
1	Phascolarctos cinereus	koala	SL	Description	2 - Moderate threat level	1 - Poor	1 - Poor	1- Severely restricted (76% – 100% reduction)	2 - Likely to be criti to species' surviva
				Score	7	1	1	1	4
2				Description					
-				Score					2 - Likely to be crit to species' surviv
3				Description					
-				Score					
4				Description					
				Score					
5				Description					
-				Score					
6				Description					
				Score					
7				Description					
				Score					
8				Description					
				Score					
9				Description					
				Score					
10				Description					
				Score					
				Maximum Score	7.00	1.00	1.00	1.00	4.00
				Provide the second s					

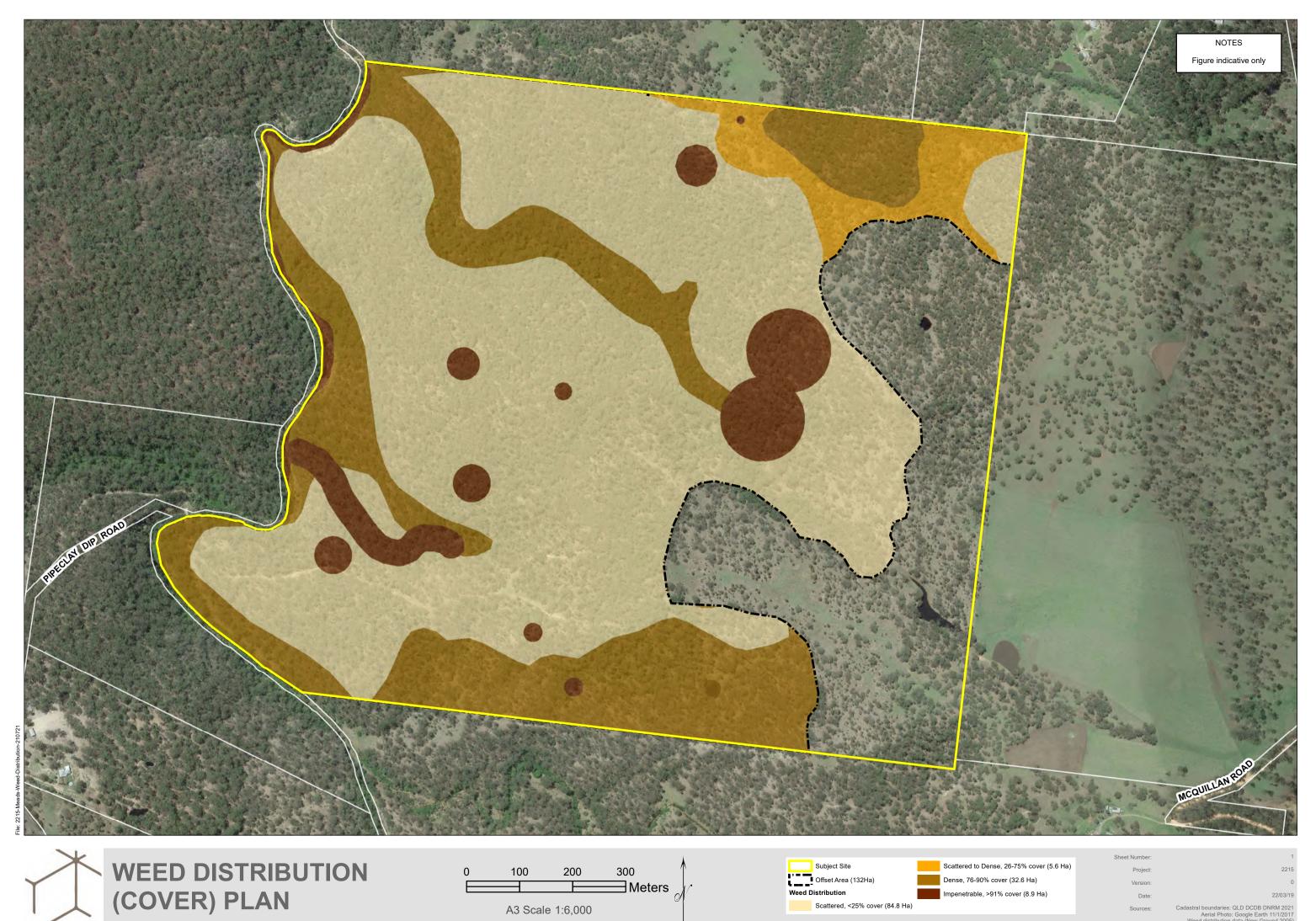
Case Ref Project Total	Name	132			<u>Habit</u>	at Quality	Final Sum	imary Ten	<u>nplate</u>				
		Habitat Quality Attributes	Requirement						Unit Number				
		Assessment Unit Area (ha)	Area (ha)	1 2	2 10	3 15	4	5	6 10	7 35	8 10	9 10	10 0
PAF	RT	Regional Ecosystems	RE	12.8.14	12.12.2	12.9-10.14	12.9-10.17	12.12.23	12.12.23	12.9-10.17	12.12.3	12.3.7	
		Bioregion	Bioregion	Southeast Queensland									
		1. Recruitment of woody perennial species	Score	3	0	0	3	3	3	0	3	0	
		2. Native plant species richness											
		- Trees	Score	3	5	3	5	3	3	5	5	3	
		- Shrubs	Score	3	3	5	3	3	3	3	3	2.5	
		- Grasses	Score	3	3	3	3	3	3	3	3	2.5	
		- Forbs	Score	3	3	3	3	3	3	3	3	2.5	
		3. Tree canopy height											
		- Canopy layer	Score	5	5	5	5	5	5	5	5	5	
	es	- Sub-Canopy Layer	Score	3	3	3	3	3	5	5	5	3	
	Condition Attributes	- Emergent Layer	Score										
1	n Att	Average Score	Average Score	4	4	4	4	4	5	5	5	4	
1	Iditio	4. Tree canopy cover											
	e Con	- Canopy layer	Score	5	5	5	5	5	5	5	5	2	
	Site	- Sub-Canopy Layer	Score	5	5	5	5	5	5	2	5	0	
		- Emergent Layer	Score										
		Average Score	Average Score	5	5	5	5	5	5	3.5	5	1	
		5. Shrub canopy cover	Score	3	5	3	3	3	3	5	3	0	
		6. Native perennial grass cover	Score	0	1	1	5	3	5	1	3	0	
		7. Organic litter	Score	5	3	3	5	3	3	5	5	0	
		8. Large trees	Score	5	5	5	5	10	10	5	5	5	
		9. Coarse woody debris	Score	2	5	5	5	2	5	5	5	0	
		10. Weed cover	Score	5	5	5	5	5	5	5	5	5	
	utes	11. Size of patch (fragmented)	Score	10	2	10	10	10	10	10	2	2	
	Context Attributes	12. Connectedness (fragmented)	Score	5	5	5	5	5	5	5	5	5	
2	text /	13. Context (fragmented)	Score	5	5	5	5	5	5	5	0	5	
	Cont	14. Distance from water (intact)	Score	0	0	0	0	0	0	0	0	0	
	Site	15. Ecological corridors	Score	6	6	6	6	6	6	6	6	6	
				_		_	_		_	_	_		_
	ndex	16. Threats to species	Score	15	15	7	7	7	7	7	7	7	
	Habitat Index	17. Quality and availability of food and foraging habitat	Score	10	10	5	10	10	10	10	10	1	
3	6 Hab	18, Quality and availability of shelter	Score	10	10	10	10	10	10	10	10	1	
	Species I	19. Species mobility capacity	Score	10	10	4	7	7	4	7	10	1	
	Sp	20. Role of site location to overall population in the State.	Score	4	4	4	4	4	4	4	4	4	

	-									
Habitat Quality Score (measured)	119.00	114.00	101.00	118.00	114.00	117.00	112.50	107.00	57.50	
Habitat Quality Score (max)	176.00	176.00	176.00	176.00	176.00	176.00	176.00	176.00	176.00	
Assessment Unit Area (ha)	2.00	10.00	15.00	35.00	5.00	10.00	35.00	10.00	10.00	0.00
Assessment Unit Habitat Quality Score	6.76	6.48	5.74	6.70	6.48	6.65	6.39	6.08	3.27	
Size weighting	0.02	0.08	0.11	0.27	0.04	0.08	0.27	0.08	0.08	
Weighted Assessment Unit Habitat Quality Score	0.10	0.49	0.65	1.78	0.25	0.50	1.69	0.46	0.25	
FINAL TOTAL HABITAT QUALITY SCORE	6.17									

APPENDIX G

Weed Distribution (Cover) Plan





300

Meters

100

0

200

A3 Scale 1:6,000

ndaries: QLD DCDB DNRM 2021 Aerial Photo: Google Earth 11/1/2017 distribution data (New Ground 2005

Scattered to Dense, 26-75% cover (5.6 Ha) Dense, 76-90% cover (32.6 Ha) Impenetrable, >91% cover (8.9 Ha)

Subject Site

Offset Area (132Ha) Weed Distribution

Scattered, <25% cover (84.8 Ha)