Appendix 7 – Pre-Clearance Survey – Autumn, Myara North (GHD, 2023)



Pre-clearance fauna survey - Autumn

Myara North

Alcoa of Australia Limited 30 October 2023

→ The Power of Commitment



Project name		Alcoa - Myara North 2022/23 Pre-Clearance surveys						
Document title		Pre-clearance faur	na survey - Autun	nn Fauna surv	eys			
Project n	umber	12592293						
File name)	12592293_REP_A	utumn 2023 Mya	ra North Pre-cle	arance Survey F	Report.docx		
Status Revision		Author	Reviewer		Approved fo	Approved for issue		
Code			Name	Signature	Name	Signature	Date	
S3	А	J. Eastwood, S. Flemington	G Gaikhorst	On file in email repository	H Morgan		20/06/2023	
S4	В	S Flemington	G Gaikhorst	On file in email repository	H Morgan	11/15	30/10/2023	
[Status code]								
[Status code]								
[Status code]								

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1. Introduction

1.1 Project background

Alcoa of Australia Limited (Alcoa) operate the Huntly Mine within mining lease ML1sa, in the Northern Jarrah Forest Interim Biogeographic Regionalisation for Australia (IBRA) subregion. Alcoa propose to transition the Huntly Mine operations from the current Myara mine region into the Myara North mine region, as early as 2023 pending the granting of legislative approvals.

The Huntly Mine transition into the Myara North mine region is a component of the Pinjarra Alumina Refinery Revised Proposal (the Alcoa Proposal). The Alcoa Proposal will be assessed by the Environmental Protection Authority (EPA) under Part IV of the Environmental Protection Act 1986 (EP Act) and the Mine component is a controlled action (EPBC 2022/09204) to be assessed and approved under the Commonwealth Environmental Protection and Biodiversity Conservation Act 1999 (EPBC Act).

GHD has prepared, on behalf of Alcoa, a comprehensive Environmental Review Document for the Alcoa Proposal, which includes commitments for environmental management, including pre-clearance surveys. The pre-clearance surveys will inform the following:

- Amendment of preliminary infrastructure or facility designs to avoid, where practicable, populations or key habitat features for conservation significant species
- Construction management
- Preparation of EPA or EPBC Act compliance reports regarding impacts, management or offsets for conservation significant species.

1.2 Purpose of this report

The purpose of the survey was to identify the presence of significant fauna and significant fauna habitat features in the survey area.

The outcome of the survey and information supplied in this biological survey report will be used to inform the environmental assessment and approvals process, and the results will be used to assist in the preparation of Environmental Impact Assessment documentation. The survey findings may also assist in developing appropriate environmental management strategies to avoid and minimise environmental impacts.

1.3 Location

The survey area is located at the Alcoa mining lease, Myara North. The start of the survey area is approximately 7 km east of Jarrahdale, WA. The survey location is presented in Figure 1, Appendix A.

1.4 Scope of works

The general scope of works required for the project is summarised in Table 1 below. This report only pertains to the fauna component of the Summer/Autumn 2023 surveys.

Table 1 Pre-clearance survey scope overview

Season	Survey area	Survey	Deliverable
Summer / Autumn 2023	 Haul Road network (50m buffer) Myara North & Kisler facilities areas 	Targeted survey for Black Cockatoos and conservation significant mammal species, for all areas	- Summer/Autumn 2023 survey report suitable for submission to EPA.

In addition to the report, figures including field survey results (fauna records, tree records and habitat features), appendices including field data, photographs and species inventory, and the survey spatial data (ArcGIS shapefiles) provided in GDA94 datum consistent with IBSA requirements is to be provided.

1.5 Relevant legislation, conservation codes and background information

In WA some fauna are protected under both Federal and State Government legislation. In addition, regulatory authorities also provide a range of guidance and information on expected standards and protocols for environmental surveys.

An overview of key legislation and guidelines, conservation codes and background information relevant to this fauna survey are provided in Appendix B.

1.6 Report limitations and assumptions

This report: has been prepared by GHD for Alcoa of Australia Limited and may only be used and relied on by Alcoa of Australia Limited for the purpose agreed between GHD and Alcoa of Australia Limited as set out in section 1.2 of this report.

GHD otherwise disclaims responsibility to any person other than Alcoa of Australia Limited arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

2. Methodology

2.1 Desktop assessment

A short review of GHD (2021) results has been provided for the desktop component of the survey.

2.2 Field survey

2.2.1 Survey timing and personnel

Field surveys comprised of a pre-clearance fauna survey. Two site visits were undertaken to complete the survey, these are detailed in Table 2. The field survey was led by Zoologist, Jack Eastwood and assisted by other GHD Zoologists. The experience of these staff members is presented in Table 3.

Table 2 Field survey timing, type and details

Survey type	Date	Tasks	Personnel
Pre-clearance survey	20 th – 25 th February 2023	Black Cockatoo tree assessment, significant fauna habitat assessment, significant fauna records and camera deployment.	Jack Eastwood Brad Maryan
Remote equipment collection and finalised preclearance survey 20 th – 23 rd March 2023		Remote equipment collection and Black Cockatoo tree assessment, significant fauna habitat assessment, significant fauna records	Brad Maryan Dylan Goldspink

Table 3 Personnel experience

Name	Years of experience	Role	Survey conducted
Jack Eastwood	5+	Zoologist	Survey
Brad Maryan	20+	Senior Zoologist	Survey and remote equipment collection
Dylan Goldspink	5+	Graduate Zoologist	Finalised survey and remote equipment collection

2.2.2 Guiding documents and data collection

The survey methodology and data collection GHD employed was consistent with relevant aspects of:

EPA Technical Guidance – Terrestrial vertebrate fauna surveys for environmental impact assessment (EPA2020)

- Survey guidelines for Australia's Threatened Mammals (Commonwealth of Australia, 2011)
- Referral guideline for 3 WA threatened black cockatoo species: Carnaby's Cockatoo (Zanda latirostris)
 Baudin's cockatoo (Zanda baudinii) Forest red-tailed black cockatoo (Calyptorhynchus banksii naso)
 (Commonwealth of Australia, 2022). At the time of the survey the 2022 guidelines were most current.

Field data collection for the biological survey was undertaken using Global Positioning System (GPS) enabled Samsung tablets using electronic forms in Collector and tailored to IBSA spatial data requirements. Data was synced to the cloud at the conclusion of each field day. GPS devices were used to capture survey effort (track logs). Field photographs were stored and where applicable have been provided as part of the deliverables.

2.2.3 Pre-clearance fauna survey

GHD Zoologists undertook fauna surveys, targeting the conservation significant fauna identified as likely to occur in the Myara North region (GHD 2021). From this work thirteen conservation significant fauna species were identified as known to occur (i.e. recorded) in the region. These thirteen recorded species are the focus of the preclearance survey and are:

- Chuditch (Dasyurus geoffroii) Vulnerable
- Quokka (Setonix brachyurus) Vulnerable
- Water Rat, Rakali (Hydromys chrysogaster) Priority 4
- Western False Pipistrelle (Falsistrellus mackenziei) Priority 4
- South-Western Brush-tailed Phascogale (*Phascogale tapoatafa* subsp. wambenger) Conservation Dependent
- Western Brush Wallaby (Notamacropus irma) Priority 4
- Quenda (Isoodon fusciventer) Priority 4
- Masked Owl (Tyto novaehollandiae novaehollandiae) Priority 3
- Peregrine Falcon (Falco peregrinus) Other Specially Protected
- Carnaby's Cockatoo (Zanda latirostris) Endangered
- Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso) Vulnerable
- Baudin's Cockatoo (Zanda baudinii) Endangered
- Southern Death Adder (Acanthophis antarcticus) Priority 3

The survey area was traversed on foot and where appropriate vehicle to identify and record signs of significant fauna and presence of suitable habitat and habitat features. Specifically, this included the assessment of hollow-bearing trees with respect to Black Cockatoos and other conservation significant mammals (i.e. Western False Pipistrelle and Brush tailed Phascogale), and inspection of suitable ground habitat features (e.g. hollow fallen logs) with respect to Chuditch, Western Brush Wallaby and Quenda. The survey also included the deployment of remote cameras across suitable habitat to confirm mammal occupation. The survey effort including staff GPS tracklogs, and remote camera locations have been mapped in Figure 2, Appendix A.

Habitat tree assessment

Visual inspections of relevant suitable habitat features (i.e. tree hollows) suitable for the target significant fauna species including the Western False Pipistrelle, Brush-tailed Phascogale and Masked owl was undertaken and mapped.

Diurnal searches

The survey area was traversed on foot, in a continuous transect through the survey area, to identify suitable habitat, and habitat features suitable for use by significant fauna species. Where the survey area increased in size, transects were undertaken at approximately 50 m apart to search the area adequately. Diurnal searches of potential shelter/ denning sites for significant species (i.e logs for Chuditch) and dense vegetation (i.e. suitable for Quenda) dictated the deployment of remote cameras in these areas to confirm use by the species.

Diurnal searches also detect fauna through identification of secondary evidence, in the form of scats, tracks, feathers, diggings, and burrows.

Remote cameras

Remote cameras (Reconyx-Hyperfire ® and Reconyx-Pro ®) were deployed in suitable habitat to detect relevant target significant fauna, including Damplands and Drainage lines (Bullich, Flooded Gum, Melaleuca), Granite outcrops, Jarrah-Marri Forest, and Sheoak dominated patches of Jarrah-Marri Forest. Cameras were baited with universal animal bait (a combination of peanut butter, oats and sardines) to attract fauna species within the survey area. For each camera location the number of nights deployed, and the GPS coordinates were recorded. Cameras were used in this instance to supplement other trapping techniques.

The camera placement was altered to maximise possibility of capture for certain significant fauna. In Sheoak dominated forest, cameras would be placed facing a tree trunk in order to target South-western Western Brushtailed Phascogale, as they are arboreal. Cameras targeting Chuditch and Western Brush Wallaby were placed on the ground or on fallen logs in Jarrah-Marri Forest for these species. Cameras were placed in damplands and drainage lines to target Quokka, Quenda, and Water Rat. Although not present in the survey area, Granite outcrops would be the target habitat for the Southern Death Adder. Data from the cameras were downloaded to a computer and manually analysed for the presence of fauna following the field survey.

A total of sixteen remote cameras were deployed in the survey area and remained between the 20th February and 21st March. In total, 30 trap nights were recorded over the survey.

All remote cameras have been mapped on Figure 2, Appendix A. and data presented in Appendix C.

Fauna species identification

Identification of fauna species was made in the field using available field guides and electronic guides (e.g. Morcombe 2004, Menkhorst and Knight 2010, Neville 2013 and Wilson and Swan 2020). Where identification was not possible, photographs of specimens were collected to be later identified. The Chuditch recorded on camera were analysed using spot arrangement as per Hohnen et al (2012) for the purposes of identifying and counting the number of individuals. The results of this analyses is presented in Appendix C.

Fauna nomenclature

Nomenclature used in this report for all faunal groups follows that used by the Western Australian Museum and the DBCA NatureMap database (DBCA 2007–).

2.2.4 Black Cockatoo tree assessment

A targeted Black Cockatoo tree assessment was undertaken in conjunction with the pre-clearance survey. The survey was carried out in accordance with the Referral guideline for 3 WA threatened black cockatoo species:: Carnaby's Cockatoo (*Zanda latirostris*) Baudin's cockatoo (*Zanda baudinii*) Forest red-tailed black cockatoo (*Calyptorhynchus banksii naso*) (Commonwealth of Australia, 2022). The assessment included:

- Survey of hollow bearing trees for signs of use or suitability for use at ground-level, including photography, coordinates, tree diameter at breast height (DBH), estimated hollow height-from-ground/ entrance sizeand location
- Verification of GHD (2021) assessment of foraging and roosting habitat within the survey area
- Recording of foraging evidence and visual or aural observation of black cockatoos.

Hollow suitability for Black Cockatoo breeding is assessed using parameters based on studies conducted and adopted by Johnstone and Storr (1998) and Groom (2011). On average, Carnaby's Cockatoos are known to nest in hollows with an entrance diameter greater than 20 - 30 cm (Johnstone and Storr 1998; Groom 2011). While the Forest Red-tailed Black Cockatoo is known to nest in hollows with an entrance of greater than 12 cm (Johnstone and Storr 1998).

In addition to the hollow diameter, the presence of chewing around the hollow or other evidence of use, such as feeding evidence on the ground provides an indicator of a suitable and potentially used or currently used hollow. The general accessibility of a hollow is also assessed in the field, as branches can sometimes be covering hollows, or hollows may be occupied by other bird species (Corrella or Galah) or bees.

2.3 Limitations

2.3.1 Field survey limitations

The EPA (2020) Technical Guidance states that fauna survey reports for environmental impact assessment in WA should contain a section describing the limitations of the survey methods used. The limitations and constraints associated with this field survey are discussed in Table 4. Based on this assessment, the survey effort has not been subject to any constraints, which affect the thoroughness of the assessment or conclusions formed.

Table 4 Field survey limitations

Aspect	Constraint	Comment
Sources of information and availability of contextual information.	Nil	Contextual information was derived from previous studies and desktop assessment completed by GHD (2021) with relevance to the survey.

Aspect	Constraint	Comment
Scope (what life forms were sampled etc.)	Nil	Terrestrial vertebrate fauna were sampled during the survey.
Proportion of fauna collected and identified (based on sampling, timing and intensity)	Nil	A pre-clearance fauna (or targeted fauna) survey was conducted over two periods (20 th – 25 th February 2023 and 20 th – 23 rd March 2023). As the survey targeted suitable habitats using cameras, mammals are expected to have been captured during this time, and seasonality would not have impacted the results with this method. The target species were captured using the cameras. Eight survey days and 16 person days were employed for the surveys. A total of 17 cameras were deployed over the survey area and remained between the 20 th February and 21 st March. In total, 30 trap nights were recorded over the survey. Of the fauna species recorded during the survey, all were identified to species level.
Completeness and further work which might be needed (e.g. was the relevant area fully surveyed)	Nil	The survey area was accessed by vehicle and on foot. The survey area was adequately surveyed during the field survey in line with the scope.
Mapping reliability	Minor	No habitat mapping was undertaken for the survey. The survey was conducted using high-resolution aerial imagery obtained from Landgate, topographical features, previous vegetation mapping (Mattiske and/or Beard) and field data. Data was recorded in the field using hand-held GPS tools (e.g. Samsung tablet, and Garmin GPS). Certain atmospheric factors and other sources of error can affect the accuracy of GPS receivers, including tree canopies. The Garmin GPS units used for this survey are accurate to within ±5 metres on average, therefore the data points consisting of coordinates recorded from the GPS may contain minor inaccuracies.
Timing/weather/ season/cycle	Nil	The field survey was undertaken in February – March. In the four months prior to the survey (November 2022 – February 2023), the Jarrahdale (#9023) radar (BoM 2023) recorded 46.4 mm rainfall. This is below the long-term average rainfall for the same period (83.1 mm). The conditions during the survey were clear, with no rainfall.
		The nearest weather station for temperature data is Karnet (#9111) A summary of the climatic conditions are provided for February:
		- Daily maximum temperature: 35.2 °C
		- Daily minimum temperature: 24.0 °C
		- Daily rainfall: 0.2 mm The weather conditions did not appear to impact the results of the survey. Rainfall and cold conditions can impact fauna detectability. It would also have reduced the accessibility and time available to survey, if rainfall were to exceed the threshold for a stop-work.
Disturbances (e.g. fire, flood, accidental human intervention)	Nil	Historical and ongoing clearing is present in the survey area. This disturbance did not impact the survey effort and aim of the survey. Fauna that are present in the area and potentially utilising the remaining uncleared habitat are detectable, or a reasonable likelihood is placed on their occurrence through the distinction of available habitat for these species, noted in the field, if they are not detected during the field survey.
Intensity (in retrospect, was the intensity adequate)	Nil	The survey area was sufficiently covered by the field staff. Walk transects covering the entire length of the survey area, was conducted, which is considered adequate for the survey requirements. As the survey area was narrow, the survey team were able to visibly inspect all the fauna habitat present within the survey timeframe through walk transects.
Resources	Nil	Adequate resources were employed during the field survey. Eight survey days and 16 person days were spent undertaking the

Aspect	Constraint	Comment
		survey utilising 3 experienced zoologists. The entirety of the survey area was walked through transects, and a team of two allows for suitable coverage to visibly inspect the approximately 100 m wide corridor, as the team walk apart at a distance to record information across the corridor.
Access restrictions	Nil	All areas were able to be accessed during the survey.
Experience levels	Nil	The relative experience levels of the junior zoologists are 5 years, and the senior zoologist is 20 plus years.

3. Desktop assessment

3.1 Previous surveys

GHD (2021) Myara North Terrestrial Fauna Survey and Black Cockatoo

GHD (2021) conducted a Terrestrial Vertebrate Fauna Survey and Black Cockatoo Habitat Assessment in the Myara North region for Alcoa's Huntly Mine expansion. The survey was located in Jarrahdale State Forest and bordered Jarrahdale town and Serpentine National Park to the west, Modnadnocks Conservation Park to the east, and the existing Myara mine region to the south. The survey area covered approximately 18,000 ha.

The 2021 survey included a desktop assessment, a consolidation of previous fauna studies, and a detailed and targeted vertebrate fauna survey undertaken in the Myara North region in winter (June/July) and spring (November) of 2020. The Survey included a black cockatoo habitat assessment in accordance with Revised Draft referral guidelines for three threatened black cockatoo species (Commonwealth of Australia, 2017), and a targeted assessment of Carter's Freshwater Mussel.

The survey area recorded eight broad fauna habitat types: Bullich forest, Granite outcrop, Blackbutt forest, Flooded Gum woodland, Jarrah -Marri forest, Melaleuca dampland. Mine rehabilitation and Pine plantation. Jarrah-Marri forest was the predominant habitat type, consisting of 83% of the survey area. A small portion of the survey area comprised rural cleared land.

The conservation value of each fauna habitat type is specific to the locally occurring conservation significant fauna species and the type of usage by those species. All three Black Cockatoos were recorded primarily throughout the Marri-Jarrah forest, however all habitat types will be utilised for foraging by either one or all of the species. Melaleuca Damplands and riparian areas comprising Bullich Forest, Blackbutt Forest and Marri-Jarrah Forest support a Quokka population with records scattered throughout the Survey Area. Chuditch are wide ranging and expected to use all habitat types at a relatively low density.

In total 13 conservation significant species were recorded in the survey area including the Quokka, Chuditch, Brush-tailed Phascogale, Western Brush Wallaby, Forrest Red-tailed Black Cockatoo, Baudin's Cockatoo, Carnaby's Cockatoo, Western False Pipistrelle, Southern Death Adder, Quenda, Rakali, Masked Owl and Peregrine Falcon. All species identified are likely to have significant populations (number of individuals) and key habitat present within the survey area.

With regard to migratory shorebirds, the survey area lacks open water including shallow shorelines for foraging habitat. The creek lines and vegetated dampland areas within the survey area are not suitable for migratory shorebirds.

Carter's Freshwater Mussel was targeted during the survey, but it was not recorded. This is expected given that the streams are seasonal, and dry up for several months of the year. The species is known to reside in the Serpentine Dam downstream and while mussels may disperse upstream from the Dam during winter/spring flows, the dispersing mussels are unlikely to survive the extended dry period and significant populations are unlikely within the survey area.

The DBCA NatureMap search identifies that 192 vertebrate fauna taxa previously recorded within 20 km radius of the survey area. This total included 30 mammals, 115 birds, 35 reptiles and 12 amphibians.

The detailed and targeted program recorded 132 vertebrate fauna species utilising the survey area, including 23 mammals, 76 birds, 26 reptiles and seven amphibians. Of these, eight introduced species (mammals and birds) were identified. Based on the database search, the program produced good diversity of species for the survey area. It is likely that a different suite of faunal groups would be present in other times in the year (e.g. amphibians in autumn and seasonally moving species).

The location of previously recorded suitable DBH Black Cockatoo trees recorded by GHD (2021) either in the survey area or nearby have been mapped in Figure 4, Appendix A. This represents survey effort in the area and provides an indication of potential impact to trees for the current alignment (survey area).

4. Results

4.1 Significant fauna

Six significant fauna species were recorded within the survey area during the surveys. These are:

- Baudin's Cockatoo (Zanda baudinii) listed as Endangered under the BC Act and Endangered under the EPBC Act.
- Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso) listed as Vulnerable under the BC Act and Vulnerable under the EPBC Act.
- Chuditch (Dasyurus geoffroii) listed as Vulnerable under the BC Act and Vulnerable under the EPBC Act.
- Quenda (Isoodon fusciventer) listed as Priority 4 by the DBCA.
- Western Bush Wallaby (Notamacropus irma) listed as Priority 4 by the DBCA.
- South-Western brush-tailed phascogale (*Phascogale tapoatafa wambenger*) listed as Conservation Dependent by the DBCA.

All locations of these fauna (camera results and visual observations/secondary evidence) and trees suitable for use by significant fauna, have been mapped on Figure 3, Appendix A with raw data presented in Appendix C.

Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)

Forest Red-tailed Black Cockatoos were recorded at 6 locations throughout the survey area with approximately 6 physical flock observations recorded during the survey. Individuals were observed in flight, feeding or calling throughout the areas assessed. The location of these sightings are presented in Figure 4, Appendix A and in Appendix C.

Baudin's Cockatoo (Calyptorhynchus baudinii)

Baudin's Cockatoo has been recorded breeding in both the Myara and Myara North regions, though only in low numbers. Most breeding appears to be in the Solus Road area at the border of the Myara and Myara North regions (Alcoa, T. Kirkby unpublished data).

Baudin's Cockatoo were recorded in flight, feeding and calling throughout the survey area. In total Baudin's Cockatoo were recorded at 10 locations, with 3 physical flock observations recorded during surveys. Individuals were observed in flight, feeding or calling throughout the areas assessed. The location of these sightings are presented in Figure 4, Appendix A and in Appendix C

Quenda (Isoodon fusciventer)

The Quenda was recorded at one location within the survey area via remote camera (see Plate 1). Camera B1 is located in the small portion of the survey area alignment in the southwest of the survey area. Habitat preference tends to be associated with areas of low dense vegetation along drainage lines and damplands. The camera which recorded the Quenda was setup in Blackbutt forest, which was nearby a drainage line. The location of the Quenda are presented in Figure , Appendix A and in Appendix C.



Plate 1: Quenda captured on camera during Pre-clearance survey

Chuditch (Dasyurus geoffroii)

During the field survey Chuditch were recorded on 4 remote camera devices (Plate 2). The location of these records is on Figure 3, Appendix A. Image assessments were conducted, by analysing camera trap images of individuals using the unique pattern and spots each individual displays (see Appendix C). This assessment identified that 9 different individuals were recorded in the survey area. This included 5 individuals recorded on Camera 11, one individual recorded on Camera 42, one individual on Camera "no name" and two individuals on Camera 43. There is a degree of uncertainty surrounding Chuditch 5, as the images do not show the full spot pattern for that individual, suggesting it could be Chuditch 1, as it has a similar pattern.

Nine individuals is a high number and may represent that the survey area is within several individual's home-ranges and that suitable breeding and foraging habitat is available. GHD (2021) states that the survey area contains suitable breeding and foraging/hunting habitat to support the species and a population. This distinction can be made for the results in the pre-clearance survey, especially as only two camera captures of the Chuditch were recorded by GHD in 2021 and extensive targeted cage trapping was undertaken for the species, with no trapped individuals. (GHD 2021).



Plate 2: Chuditch captured on camera during Pre-clearance survey'

Western Brush Wallaby (Notamacropus irma)

Western Brush Wallaby were recorded throughout much of the survey area with a total of 11 observations of individuals (predominantly opportunistic) recorded during the surveys. Sightings occurred mainly amongst the Jarrah-Marri Forest, the dominant fauna habitat type, and were more prevalent in the southern and central portions of the survey area. The location of these records is on Figure 3, Appendix A.

South-Western Brush-Tailed Phascogale (Phascogale tapoatafa wambenger)

During the field survey The South-Western Brush-tailed Phascogale was recorded on one remote camera (Plate 3) at one location in the Jarrah/Marri forest habitat in the survey area (Figure 3, Appendix A). Trees identified as suitable for use by this species (containing suitable hollows) were identified in the survey area. A total of 16 trees, containing 23 hollows were observed as suitable for this species. This total included 12 Jarrah trees, and 4 Marri. These trees are presented on Figure 3, Appendix A.



Plate 3: South-Western Brush-tailed Phascogale captured on camera during Pre-clearance survey

Masked Owl (Tyto novaehollandiae novaehollandiae)

The Masked Owl has been previously recorded with acoustic recorders at Myara North near Serpentine Dam (GHD 2021). One tree hollow in a Jarrah tree was identified as suitable for the Masked Owl in the survey area (Figure 3, Appendix A and Appendix C). This species was not recorded during the survey. Nocturnal surveys or bird acoustic recorders would be required to detect this species.

4.2 Black Cockatoo tree assessment

The location of suitable DBH trees for all Black Cockatoo species, identified in the survey area have been mapped in Figure 4, Appendix A and provided in tabular format in Appendix C.

The survey area was observed to be dominated by Forest Red-tailed Black and Baudin's Cockatoo, while Carnaby's Cockatoo's were not observed at the time of the survey.

Transect data recorded within the survey area identified Jarrah as the dominant tree species supporting breeding habitat, followed by Marri and Blackbutt (Figure 4, Appendix A) represented by the yellow and labelled symbols. Both the composition and relative number of habitat trees per hectare is likely dictated by dual factors; including historic logging practices and deliberate felling of Marri to provide better resources to promote faster growth to Jarrah timber assets. Habitat tree counts (trees identified with potential breeding suitability (i.e. containing hollows)) in the survey area comprise of 15 Jarrah, 9 Marri, and 1 Blackbutt (25 habitat trees in total). The total number of suitable hollows recorded for Black Cockatoos is 33. The hollows were assessed as suitable as they were the appropriate size, and were accessible (not occupied by bees or other birds and no branches in front of entrance).

Breeding activity has been recorded at Myara North in the past for Forest Red-tailed Black Cockatoos, Baudin's Cockatoo and Carnaby's Cockatoo (GHD, 2021). The pre-clearance survey recorded hollows suitable for breeding for Black Cockatoo, and evidence of use (chew marks around hollow) at 8 of the 33 hollows identified (Appendix C). Three of these hollows were in Marri, and the remaining 5 were in Jarrah. The trees are labelled in Figure 4, Appendix A with an identifying number that is provided in the table in Appendix C.

In total 12 foraging sites were recorded consisting of 7 Baudin's Cockatoo and 5 Forest Red-tailed Black Cockatoo sites. These sites are mapped on Figure 3, Appendix A. Throughout the survey area foraging quality was observed medium to high quality, depending on habitat type and the requirements for each cockatoo species. The areas

representing high quality foraging habitat consist of primary foraging species including Jarrah (*Eucalyptus marginata*), Marri (*Corymbia calophylla*), Blackbutt (*Eucalyptus patens*), Sheoak (*Allocasuarina fraseriana*), Bull Banksia (*Banksia grandis*), and Snottygobble (*Persoonia longifolia*).

No roosting sites were recorded within the survey area. Additionally, no evidence of roosting was observed. It is likely roost locations may be present within or nearby the survey area, for both Baudin's Cockatoo and Forest Redtailed Black Cockatoo with moderate flock numbers of up to 20 individuals observed flying over the survey area.

5. Conclusion

The pre-clearance survey targeted thirteen significant fauna species known or considered likely to occur in the survey area as per GHD (2021). Six of these significant fauna species were recorded within the survey area during the Autumn surveys. Three of these species, Chuditch (*Dasyurus geoffroii*), the Quenda (*Isoodon fusciventer*), South-Western Brush-tailed Phascogale (*Phascogale tapoatafa wambenger*) were recorded on remote camera. The remaining three species, the Western Brush Wallaby (*Notamacropus irma*), Baudin's Cockatoo (*Zanda baudinii*) Forest Red-tailed Black Cockatoo (*Calyptorhynchus banksii naso*) were visually observed occupying the survey area. Secondary evidence of Black Cockatoos was recorded through foraging on Marri and Jarrah nuts.

Hollow bearing habitat trees were identified and assessed as providing suitable refugia for South-Western Brushtailed Phascogale and Masked owl across the survey area. A total of 17 hollow bearing trees were observed to be suitable habitat trees, which includes 16 trees containing hollows suitable for South-Western Brush-tailed Phascogale and one tree for the Masked owl.

Potential breeding habitat trees were identified in the survey area for Black Cockatoos. A total of 25 suitable trees were identified in the survey area, containing a total of 33 hollows. A total of 8 hollows with evidence of use by Black Cockatoos (chew marks around hollow) were recorded in the survey area. Three of these hollows were in Marri, and the remaining 5 were in Jarrah.

In line with GHD's (2021) assessment, no evidence of Woylie (*Bettongia penicillata ogilbyi*) or Numbat (*Myrmecobius fasciatus*) were observed during the survey. These species have the potential to occur, although unlikely. Scattered Woylie populations may be found throughout the Jarrah forest in the southwest corner of WA. Extant naturally occurring populations of the species are restricted to three small wheatbelt reserves – Dryandra Woodland, Tutanning Nature Reserve and Perup Forest. However, GHD recently recorded the Woylie at the O'Neil survey area, which is approximately 20 km southeast of the Myara North survey area. The Myara survey area has received much more disturbance than the O'Neil area, in the form of clearing, and may be impacting the presence of this species. The suitability of habitat (dense myrtaceous shrubland and thickets of the plant *Gastrolobium*) for Woylie in the survey area is limited.

The only remaining original subpopulations for the Numbat are at Dryandra Woodland and the Upper Warren area (including Tone Perup Nature Reserve, Greater Kingston National Park and adjoining State Forest). and preferred habitat being outside the region. There was however a camera record of a single individual at Boddington recorded in 2021 by a landholder, which is approximately 50 km away from the extant populations, and an additional 50 km from the Myara survey area. It is highly unlikely the Numbat are utilising the survey area based on known distribution, and the existing habitat clearing/disturbance at Myara, as Numbats require large areas with sufficient densities of termites present in logs/hollows for food, and hollow logs, tree hollows, burrows and branches for shelter.

GHD (2021) recorded the Quokka on camera in Phase 1 and Phase 2 of the survey at 16 locations across the survey area. GHD determined the species is likely widespread in the area but are limited to areas of dense vegetation associated with drainage lines and damplands. No evidence of Quokka was recorded during the 2023 survey at Myara North, however, previous records from GHD (2021) are close to the area and Quokka is likely to occur. This is particularly in the southern arm of the haul road network, where it crosses the drainage line (from the Serpentine Reservoir) running northwest – east, and in the centre of the network, just south of the Myara North Facilities area, where it intersects a few drainage lines. GHD (2021) recorded Quokka near these areas.

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Appendices

Appendix A

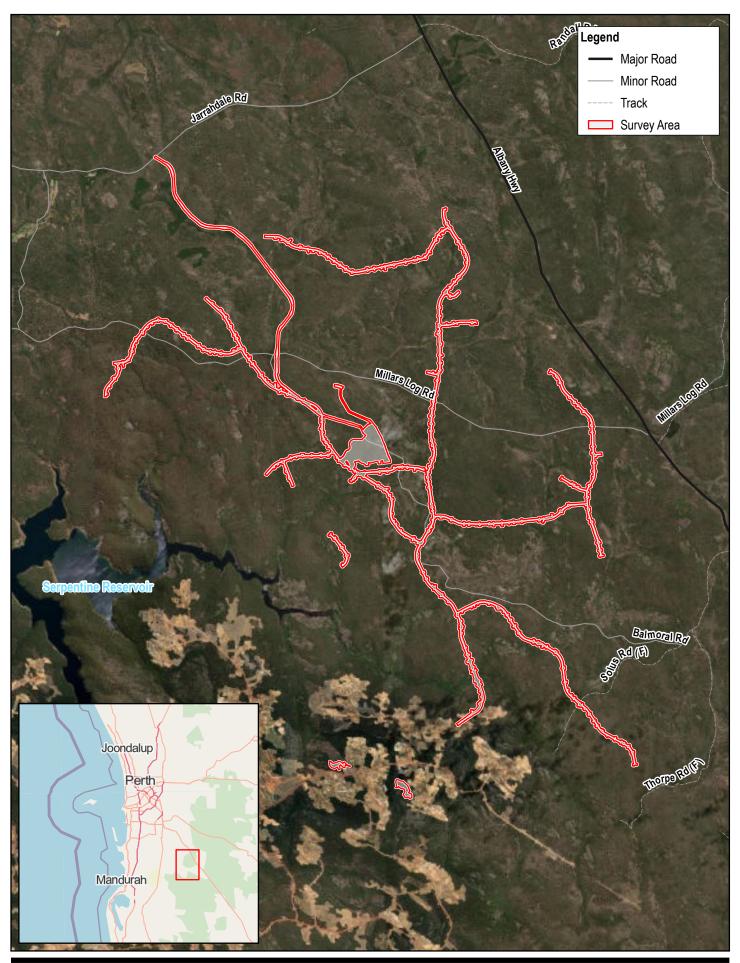
Figures

Figure 1 Project location

Figure 2 Survey effort

Figure 3 Significant fauna locations

Figure 4 Black Cockatoo Assessment





Map Projection: Transverse Mercator Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 50

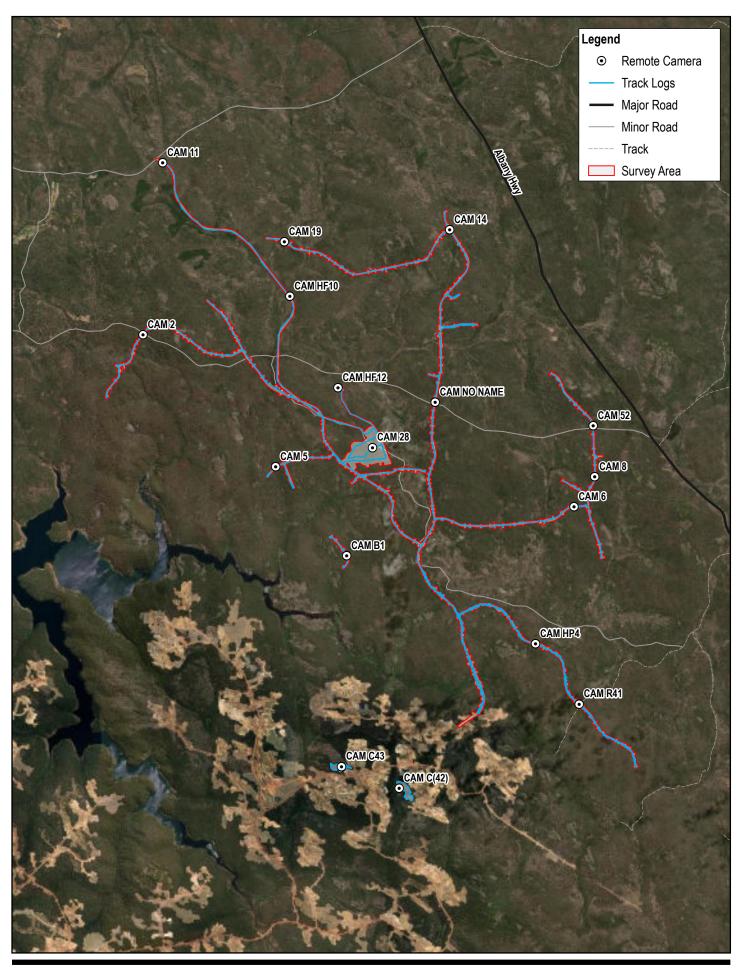




Alcoa Myara North 2022/23 Pre Clearance Surveys Project No. 12592293
Revision No. 0

Date 4/10/2023

Project Location





Map Projection: Transverse Mercator Horizontal Datum: GDA2020 Grid: GDA2020 MGA Zone 50

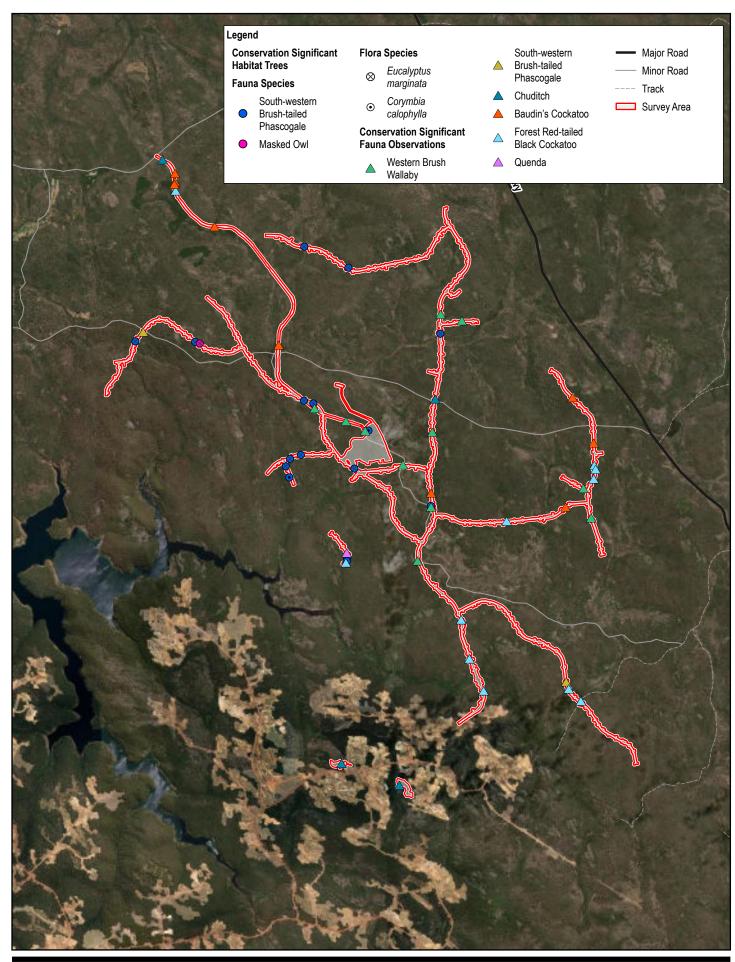


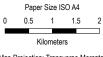


Alcoa Myara North 2022/23 Pre Clearance Surveys Project No. 12592293 Revision No. 0

Date 4/10/2023

Survey Effort





Map Projection: Transverse Mercator Horizontal Datum: GDA2020 Grid: GDA2020 MGA Zone 50

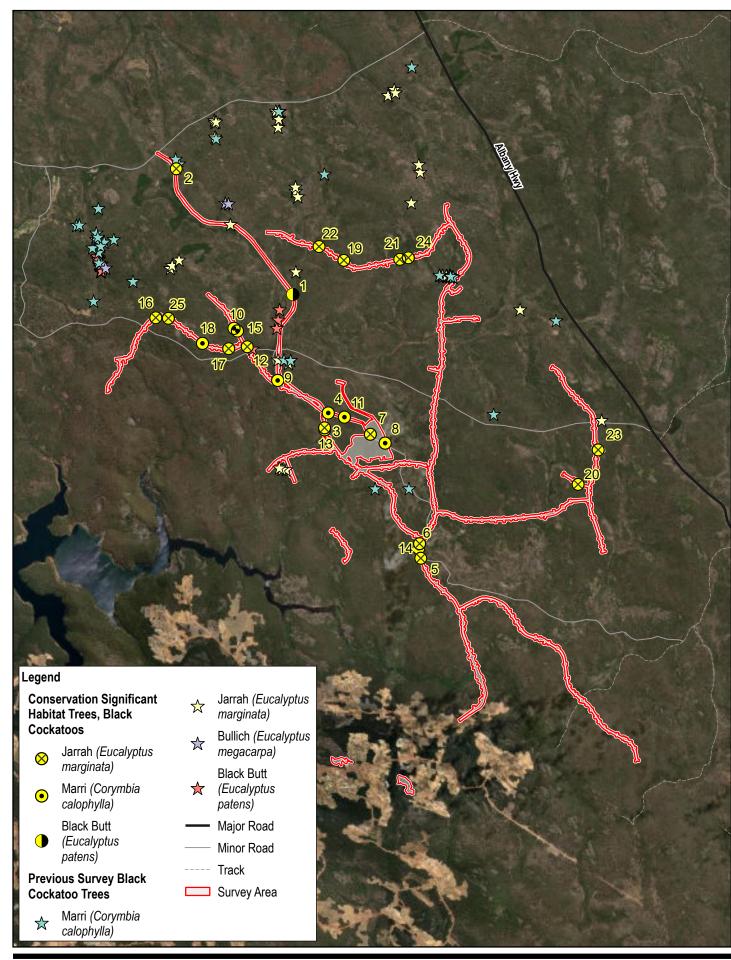


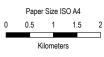


Alcoa Myara North 2022/23 Pre Clearance Surveys Project No. 12592293 Revision No. 0

Date 4/10/2023

Significant Fauna Locations





Map Projection: Transverse Mercator Horizontal Datum: GDA2020 Grid: GDA2020 MGA Zone 50





Alcoa Myara North 2022/23 Pre Clearance Surveys Project No. 12592293
Revision No. 0

Date 4/10/2023

Black Cockatoo Assessment

Appendix B

Relevant legislation, background information and conservation codes

Relevant legislation

Federal Environment Protection and Biodiversity Conservation Act 1999

The Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) is the Federal Government's central piece of environmental legislation. It provides a legal framework to protect and manage nationally and internationally important flora, fauna, ecological communities and heritage places, which are defined in the EPBC Act as Matters of National Environmental Significance (MNES).

The biological aspects listed as MNES include:

- Nationally threatened flora and fauna species and ecological communities
- Migratory species

A person must not undertake an action that has, will have, or is likely to have a significant impact (direct or indirect) on MNES, without approval from the Federal Minister for the Environment.

The EPBC Act is administered by the Department of Climate Change, Energy, the Environment and Water (DCCEEW).

State Environmental Protection Act 1986

The *Environmental Protection Act 1986* (EP Act) is the primary legislative Act dealing with the protection of the environment in Western Australia. The Act allows the Environmental Protection Authority (EPA), to prevent, control and abate pollution and environmental harm, for the conservation, preservation, protection, enhancement and management of the environment and for matters incidental to or connected with the foregoing. Part IV of the EP Act is administered by the EPA and makes provisions for the EPA to undertake environmental impact assessment of significant proposals, strategic proposals and land use planning schemes.

The Department of Water and Environment Regulation (DWER) is responsible for administering the clearing provisions of the EP Act (Part V). Clearing of native vegetation in Western Australia requires a permit from the DWER, unless exemptions apply. Applications for clearing permits are assessed by the Department and decisions are made to grant or refuse the application in accordance with the Act. When making a decision the assessment considers clearing against the ten clearing principles as specified in Schedule 5 of the EP Act:

- 1. Native vegetation should not be cleared if it comprises a high level of biodiversity.
- 2. Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a significance habitat for fauna indigenous to Western Australia.
- 3. Native vegetation should not be cleared if it includes, or is necessary, for the continued existence of rare flora.
- 4. Native vegetation should not be cleared if it comprises the whole or part of native vegetation in an area that has been extensively cleared.
- 5. Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.
- 6. Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.
- 7. Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.
- 8. Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.
- 9. Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.

10. Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence of flooding.

Exemptions for clearing include clearing that is a requirement of a written law or authorised under certain statutory processes (listed in Schedule 6 of the EP Act) and exemptions for prescribed low impact day-to-day activities (prescribed in the Environmental Protection (Clearing of Native Vegetation) Regulations 2004); these exemptions do not apply in environmentally sensitive areas (ESAs).

State Biodiversity and Conservation Act 2016

The *Biodiversity Conservation Act 2016* (BC Act) provides for the conservation and protection of biodiversity and biodiversity components, as well as the promotion of the ecologically sustainable use of biodiversity components in Western Australia. The BC Act replaces both the repealed *Wildlife Conservation Act 1950* (WC Act) and the *Sandalwood Act 1929* (Sandalwood Act), as well as their associated regulations. To attain the objectives of the BC Act, principles of ecological sustainable development have been established:

- Decision-making processes should effectively integrate both long-term and short-term economic, environmental, social and equitable considerations
- If there are threats of serious or irreversible environmental damage, lack of full scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation
- The present generation should ensure that the health, diversity and productivity of the environment is maintained or enhanced for the benefit of future generations
- The conservation of biodiversity and ecological integrity should be a fundamental consideration indecisionmaking
- Improved valuation, pricing and incentive mechanisms should be promoted.

The BC Act is administered by the Department of Biodiversity Conservation and Attractions (DBCA).

State Biosecurity and Agriculture Management Act 2007

The *Biosecurity and Agriculture Management Act 2007* (BAM Act) and associated regulations are administered by the Department of Primary Industries and Regional Development (DPIRD) and replace the repealed *Agriculture and Related Resources Protection Act 1976*. The main purposes of the BAM Act and its regulations are to:

- Prevent new animal and plant pests (vermin and weeds) and diseases from entering WA
- Manage the impact and spread of those pests already present in the state
- Safely manage the use of agricultural and veterinary chemicals
- Increased control over the sale of agricultural products that contain violative chemical residues.

The Western Australian Organism List (WAOL) provides the status of organisms which have been categorised under the BAM Act. A Declared Pest is a prohibited organism or an organism for which a declaration under Section 22(2) of the Act is in force. Declared Pests may be assigned a control category including: C1 (exclusion), C2 (eradication) and C3 (management). The category may apply to the whole of the State, LGAs, districts, individual properties or even paddocks, and all landholders are obliged to comply with the specific category of control. Categories of control are defined below.

DPIRD Categories for Declared Pests under the BAM Act

Control class code	Description
C1 (Exclusion)	Pests will be assigned to this category if they are not established in Western Australia and control measures are to be taken, including border checks, in order to prevent them entering and establishing in the State.
C2 (Eradication)	Pests will be assigned to this category if they are present in Western Australia in low enough numbers or in sufficiently limited areas that their eradication is still a possibility.
C3 (Management)	Pests will be assigned to this category if they are established in Western Australia but it is feasible, or desirable, to manage them in order to limit their damage. Control measures can prevent a C3 pest from increasing in population size or density or moving from an area in which it is established into an area which currently is free of that pest.

Background information

Environmentally Sensitive Areas

Environmentally Sensitive Areas (ESAs) are declared by the Minister for Environment under Section 51B of the EP Act. The Table below outlines the aspects of areas declared as ESA in the Environmental Protection (Environmentally Sensitive Areas) Notice 2005.

Aspects of ESAs

Aspects of Environmentally Sensitive Areas

A declared World Heritage property as defined in Section 13 of the EPBC Act.

An area that is included on the Register of the National Estate (RNE), because of its natural values, under the *Australian Heritage Commission Act 1975* of the Commonwealth (the RNE was closed in 2007 and is no longer a statutory list – all references to the RNE were removed from the EPBC Act on 19 February 2012).

A defined wetland and the area within 50 m of the wetland. Defined wetlands include Ramsar wetlands, conservation category wetlands and nationally important wetlands.

The area covered by vegetation within 50 m of rare flora, to the extent to which the vegetation is continuous with the vegetation in which the rare flora is located.

The area covered by a Threatened Ecological Community.

A Bush Forever Site listed in "Bush Forever" Volumes 1 and 2 (2000), published by the Western Australia Planning Commission, except to the extent to which the site is approved to be developed by the Western Australia Planning Commission.

The areas covered by the Environmental Protection (Gnangara Mound Crown Land) Policy 1992.

The areas covered by the Environmental Protection (Western Swamp Tortoise Habitat) Policy 2002.

The areas covered by the lakes to which the *Environmental Protection (Swan Coastal Plain Lakes) Policy 1992* (EPP Lakes) applies.

Protected wetlands as defined in the Environmental Protection (South West Agricultural Zone Wetlands) Policy 1998.

Reserves and conservation areas

Department of Biodiversity, Conservation and Attractions managed lands and waters

DBCA manages lands and waters throughout Western Australia to conserve ecosystems and species, and to provide for recreation and appreciation of the natural environment. DBCA managed lands and waters include national parks, conservation parks and reserves, marine parks and reserves, regional parks, nature reserves, State forest and timber reserves. Access to, or through, some areas of DBCA managed lands may require a permit or could be restricted due to management activities. Proposed land use changes and development proposals that abut DBCA managed lands will generally be referred to DBCA throughout the assessment process.

Wetlands

Ramsar Wetlands (Wetlands of International Importance)

The Convention of Wetlands of International Importance was signed in 1971 at the Iranian town of Ramsar. The Convention has since been referred to as the Ramsar Convention. Ramsar Listed wetlands are "sites containing representative, rare or unique wetlands, or wetlands that are important for conserving biological diversity ... because of their ecological, botanical, zoological, limnological or hydrological importance" (DAWE 2020b). Once a Ramsar Listed Wetland is designated, the country agrees to manage its conservation and ensure its wise use.

Under the Convention, wise use is broadly defined as "maintaining the ecological character of a wetland" (DAWE 2020b).

Nationally important wetlands

Wetlands of national significance are listed under the Directory of Important Wetlands in Australia. Nationally important wetlands are wetlands which meet at least one of the following criteria (DAWE 2020a):

- It is a good example of a wetland type occurring within a biogeographic region in Australia
- It is a wetland which plays an important ecological or hydrological role in the natural functioning of a major wetland system/complex
- It is a wetland which is important as the habitat for animal taxa at a vulnerable stage in their life cycles, or provides a refuge when adverse conditions such as drought prevail
- The wetland supports one percent or more of the national populations of any native plant or animal taxa
- The wetland supports native plant or animal taxa or communities which are considered endangered or vulnerable at the national level
- The wetland is of outstanding historical or cultural significance.

Vegetation extent and status

The National Objectives and Targets for Biodiversity Conservation 2001–2005 (Commonwealth of Australia 2001) recognise that the retention of 30 percent or more of the pre-clearing extent of each ecological community is necessary if Australia's biological diversity is to be protected. This is the threshold level below which species loss appears to accelerate exponentially and loss below this level should not be permitted. This level of recognition is in keeping with the targets recommended in the review of the National Strategy for the Conservation of Australia's Biological Diversity (ANZECC 2000).

The extent of remnant native vegetation in WA has been assessed by Shepherd et al. (2002) and the GoWA (2019), based on broadscale vegetation association mapping by Beard (various publications). The GoWA produces Statewide Vegetation Statistics Reports that are used for a number of purposes including conservation planning, land use planning and when assessing development applications. The reports are updated every 2-3 years.

Vegetation condition

The vegetation condition can be assessed in accordance with the vegetation condition rating scale for the South West and Interzone Botanical Provinces (EPA 2016a). The scale recognises the intactness of vegetation and consists of six rating levels as outlined below.

Vegetation condition rating and scale for the South West and Interzone Botanical Provinces

Condition	South West and Interzone Botanical Provinces description
Pristine	Pristine or nearly so, no obvious signs of damage caused by human activities since European settlement.
Excellent	Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species. Damage to trees caused by fire, the presence of non-aggressive weeds and occasional vehicle tracks.
Very Good	Vegetation structure altered, obvious signs of disturbance. Disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.
Good	Vegetation structure significantly altered by very obvious signs of multiple disturbances. Retains basic vegetation structure or ability to regenerate it. Disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.
Degraded	Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. Disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds at high density, partial clearing, dieback and grazing.

Condition	South West and Interzone Botanical Provinces description
Completely Degraded	The structure of vegetation is no longer intact and the area is completely or almost completely without native species. These areas are often described as 'parkland cleared' with the flora comprising weed or crop species with isolated native trees or shrubs.

Conservation codes

Species of significant flora, fauna and communities are protected under both Federal and State Acts. The Federal EPBC Act provides a legal framework to protect and manage nationally important flora and communities. The State BC Act is the primary wildlife conservation legislation in Western Australia. Information on the conservation codes is summarised in the following sections.

Ecological communities

Significant communities

Ecological communities are defined as naturally occurring biological assemblages that occur in a particular type of habitat (English and Blyth 1997). Federally listed Threatened Ecological Communities (TECs) are protected under the EPBC Act. The BC Act provides for the Minister to list an ecological community as a TEC (section 27), or as a collapsed ecological community (section 31) statutory listing of State TECs by the Minister. The legislation also describes statutory processes for preparing recovery plans for TECs, the registration of their critical habitat, and penalties for unauthorised modification of TECs.

Possible TECs that do not meet survey criteria are added to the DBCA Priority Ecological Community (PEC) List under Priorities 1, 2 and 3. These are ecological communities that are adequately known; are rare but not threatened, or meet criteria for Near Threatened. PECs that have been recently removed from the threatened list are placed in Priority 4. These ecological communities require regular monitoring. Conservation dependent ecological communities are placed in Priority 5. PECs are not listed under any formal Federal or State legislation, however, may be listed as TECs under the EPBC Act.

Codes and definitions for TECs listed under the EPBC Act and/or BC Act

Categories	Definition	
Federal Government Conservation Categories (EPBC Act)		
Critically Endangered (CR)	An ecological community if, at that time, is facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with the prescribed criteria (as outlined in Environment Protection and Biodiversity Conservation Regulations 2000).	
Endangered (EN)	An ecological community if, at that time: is not critically endangered; and	
	 is facing a very high risk of extinction in the wild in the near future, as determined in accordance with the prescribed criteria (as outlined in Environment Protection and Biodiversity Conservation Regulations 2000). 	
Vulnerable (VU)	An ecological community if, at that time: — is not critically endangered or endangered; and	
	 is facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with the prescribed criteria (as outlined in Environment Protection and Biodiversity Conservation Regulations 2000). 	
Western Australia	Conservation Categories (BC Act)	
Threatened Ecologic	cal Communities	
Critically Endangered (CR)	An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or that was originally of limited distribution and is facing severe modification or destruction throughout its range in the immediate future, or is already severely degraded throughout its range but capable of being substantially restored or rehabilitated.	
Endangered (EN)	An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or was originally of limited distribution and is in danger of significant modification throughout its range or severe modification or destruction over most of its range in the near future.	

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

Collapsed ecological communities

An ecological community is eligible for listing as a collapsed ecological community at a particular time if, at that time – there is no reasonable doubt that the last occurrence of the ecological community has collapsed); or

- the ecological community has been so extensively modified throughout its range that no occurrence of it is likely to recover –
 - its species composition or structure; or
 - its species composition and structure.

Section 33 of the BC Act provides for a collapsed ecological community to be regarded as a threatened ecological community if it is discovered in a state that no longer makes it eligible for listing as a collapsed ecological community.

Categories and definitions for PECs as listed by the DBCA

Category	
Priority 1	Poorly known ecological communities. Ecological communities that are known from very few occurrences with a very restricted distribution (generally ≤5 occurrences or a total area of ≤100 ha). Occurrences are believed to be under threat either due to limited extent, or being on lands under immediate threat (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) or for which current threats exist. May include communities with occurrences on protected lands. Communities may be included if they are comparatively well-known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under immediate threat from known threatening processes across their range.
Priority 2	Poorly known ecological communities. Communities that are known from few occurrences with a restricted distribution (generally ≤10 occurrences or a total area of ≤200 ha). At least some occurrences are not believed to be under immediate threat of destruction or degradation. Communities may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under threat from known threatening processes.
Priority 3	 Poorly known ecological communities. Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation or: communities known from a few widespread occurrences, which are either large or with significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat, or; communities made up of large, and/or widespread occurrences, that may or may not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stock, and inappropriate fire regimes. Communities may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and/or are not well defined, and known threatening processes exist that could affect them.
Priority 4	Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring. Rare. Ecological communities known from few occurrences that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These communities are usually represented on conservation lands.

Category	
	 Near Threatened. Ecological communities that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable. Ecological communities that have been removed from the list of threatened communities during the past five years.
Priority 5	Conservation Dependent ecological communities. Ecological communities that are not threatened but are subject to a specific conservation program, the cessation of which would result in the community becoming threatened within five years.

Other significant vegetation

Vegetation may be significant for a range of reasons other than a statutory listing. The EPA (2016a, b) states that significant vegetation may include vegetation that includes the following:

- Restricted distribution
- Degree of historical impact from threatening processes
- A role as a refuge
- Providing an important function required to maintain ecological integrity of a significant ecosystem
- Local endemism in restricted habitats
- Novel combinations of taxa
- A role as a key habitat for Threatened species or large population representing a significant proportion of the local to regional total population of a species
- Being representative of a vegetation unit in 'pristine' condition in a highly cleared landscape, recently discovered range extensions, or isolated outliers of the main range.

This may apply at a number of levels, so the unit may be significant when considered at the fine-scale (intra-locality), intermediate-scale (locality or inter-locality) or broad-scale (local to region).

Flora and fauna

Significant flora and fauna

Species of significant flora are protected under both Federal and State legislation. Any activities that are deemed to have a significant impact on species that are recognised by the EPBC Act, and/or the BC Act can warrant referral to the DCCEEW and/or the EPA.

The Federal conservation level of flora and fauna species and their significance status is assessed under the EPBC Act. The significance levels for flora and fauna used in the EPBC Act align with the International Union for Conservation of Nature (IUCN) Red List criteria, which are internationally recognised as providing best practice for assigning the conservation status of species. The EPBC Act also protects land and migratory species that are listed under International Agreements. The list of migratory species established under section 209 of the EPBC Act comprises:

- Migratory species which are native to Australia and are included in the appendices to the Bonn Convention (Convention on the Conservation of Migratory Species of Wild Animals Appendices I and II)
- Migratory species included in annexes established under the Japan-Australia Migratory Bird Agreement (JAMBA) and the China–Australia Migratory Bird Agreement (CAMBA)
- Native, migratory species identified in a list established under, or an instrument made under, an international agreement approved by the Minister, such as the republic of Korea–Australia Migratory Bird Agreement (ROKAMBA)

The State conservation level of flora and fauna species and their significance status also follows the IUCN Red List criteria. Under the BC Act flora and fauna can be listed as Threatened, Extinct and as Specially Protected species.

Threatened species are those are species which have been adequately searched for and are deemed to be, in the wild, either rare, under identifiable threat of extinction, or otherwise in need of special protection, and have been gazetted as such. The assessment of the conservation status of Threatened species is based on their national extent and ranked according to their level of threat using IUCN Red List categories and criteria. Specially protected species meet one or more of the following categories: species of special conservation interest; migratory species; cetaceans; species subject to international agreement; or species otherwise in need of special protection. Species that are listed as Threatened or Extinct species under the BC Act cannot also be listed as Specially Protected species.

Possibly threatened species that do not meet survey criteria, or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of priority for survey and evaluation of conservation status so that consideration can be given to their declaration as threatened flora or fauna.

Species that are adequately known, are rare but not threatened, or meet criteria for near threatened, or that have been recently removed from the threatened species or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring.

Assessment of Priority codes is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.

For the purposes of this assessment, all species listed under the EPBC Act, BC Act and DBCA Priority species are considered significant.

Conservation category	Definition
Threatened species	
Critically Endangered (CR)	Threatened species considered to be "facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with criteria set out in the ministerial guidelines". Listed as critically endangered under section 19(1)(a) of the BC Act in accordance with the
	criteria set out in section 20 and the ministerial guidelines.
Endangered (EN)	Threatened species considered to be "facing a very high risk of extinction in the wild in the near future, as determined in accordance with criteria set out in the ministerial guidelines".
	Listed as endangered under section 19(1)(b) of the BC Act in accordance with the criteria set out in section 21 and the ministerial guidelines.
Vulnerable (VU)	Threatened species considered to be "facing a high risk of extinction in the wild in the medium term future, as determined in accordance with criteria set out in the ministerial guidelines".
	Listed as vulnerable under section 19(1)(c) of the BC Act in accordance with the criteria set out in section 22 and the ministerial guidelines.
Extinct species	
Extinct (EX)	Species where "there is no reasonable doubt that the last member of the species has died", and listing is otherwise in accordance with the ministerial guidelines (section 24 of the BC Act).
Extinct in the Wild (EW)	Species that "is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; and it has not been recorded in its known habitat or expected habitat, at appropriate seasons, anywhere in its past range, despite surveys over a time frame appropriate to its life cycle and form", and listing is otherwise in accordance with the ministerial guidelines (section 25 of the BC Act).
Specially protected specie	S
Migratory (MI)	Fauna that periodically or occasionally visit Australia or an external Territory or the exclusive economic zone; or the species is subject of an international agreement that relates to the protection of migratory species and that binds the Commonwealth; and listing is otherwise in accordance with the ministerial guidelines (section 15 of the BC Act).
	Includes birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and fauna subject to the Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention), an environmental treaty under the United Nations Environment Program. Migratory species listed under the BC Act are a subset of the migratory animals, that are known to visit Western Australia, protected under the international agreements or treaties, excluding species that are listed as Threatened species.
Species of special conservation interest (conservation dependent fauna) (CD)	Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened.
Other specially protected fauna (OS)	Fauna otherwise in need of special protection to ensure their conservation, and listing is otherwise in accordance with the ministerial guidelines (section 18 of the BC Act).

Codes for DBCA listed Priority flora and fauna

Priority category	Definition
Priority 1	Poorly-known taxa
	Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy

Priority category	Definition
	of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.
Priority 2	Poorly-known taxa Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.
Priority 3	Poorly-known taxa Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.
Priority 4	 Rare, Near Threatened and other taxa in need of monitoring Rare: Taxa that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These taxa are usually represented on conservation lands. Near Threatened. Taxa that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable. Taxa that have been removed from the list of threatened taxa during the past five years for reasons other than taxonomy.

Other significant flora

Flora species, subspecies, varieties, hybrids and ecotypes may be significant for a range of reasons, other than a statutory listing. The EPA (2016a, b) states that significant flora may include taxa that have/are:

- A keystone role in a particular habitat for Threatened or Priority flora or fauna species, or large populations representing a considerable proportion of the local or regional total population of a species
- Relictual status, being representation of taxonomic or physiognomic groups that no longer occur widely in the broader landscape
- New species or anomalous features that indicate a potential new species
- Being representative of the range of a species (particularly, at the extremes of range, recently discovered range extensions, or isolated outliers of the main range)
- Unusual species, including restricted subspecies, varieties, or naturally occurring hybrids
- Local endemism (a restricted distribution) or association with a restricted habitat type (e.g. surface water or groundwater dependent ecosystems).

Other significant fauna

Fauna species may be significant for a range of reasons other than those protected by international agreement or treaty, Specially Protected or Priority Fauna. Significant fauna may include short-range endemic species, species that have declining populations or declining distributions, species at the extremes of their range, or isolated outlying populations, or species which may be undescribed (EPA 2010).

Introduced plants (weeds)

Declared Pests

Information on species considered to be Declared Pests is provided under *State Biosecurity and Agriculture Management Act 2007.*

Weeds of National Significance

The spread of weeds across a range of land uses or ecosystems is important in the context of socio-economic and environmental values. The assessment of Weeds of National Significance (WoNS) is based on four major criteria:

- Invasiveness
- Impacts
- Potential for spread
- Socio-economic and environmental values.

Australian state and territory governments have identified thirty-two Weeds of National Significance (WoNS); a list of 20 WoNS was endorsed in 1999 and a further 12 were added in 2012.

References

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Appendix C Fauna Field Data

Conservation significant fauna recorded during the survey

Family	Taxa	Common Name	Status
Birds			
Cacatuidae	Calyptorhynchus baudinii	Baudin's black cockatoo	EN
Cacatuidae	Calyptorhynchus banksia naso	Red-tailed black cockatoo	VU
Mammals			
Peramelidae	Isoodon obesulus fusciventer	Southern brown bandicoot	P4
Macropodidae	Notamacropus irma	Western brush wallaby	P4
Dasyuridae	Phascogale tapoatafa wambenger	South-Western brush-tailed phascogale	CD
Dasyuridae	Dasyurus geoffroii	Chuditch	VU

Black cockatoo habitat trees supporting hollows identified within the survey area

No.	Species	DBH (mm)	No. of hollows	Hollow Entrance size (mm)	Hollow Height from ground (m)	Hollow suitability	Latitude (Lat)	Longitude (Long)	Eastings (AGD)	Northings (AGD)
1	Eucalyptus patens	2000	5	300	15	Potentially good.	d32.354191 116.170859 42184		421844.4981	6419851.396
2	Eucalyptus marginata	900	1	300	15	Potentially quite good. Feeding evidence on Jarrah nuts.			419376.5404	6422509.107
3	Eucalyptus marginata	900	1	450	25	Potential suitable breeding tree	-32.379702	116.177745	422514.0016	6417028.576
4	Corymbia calophylla	1300	1	200	20	possible very suitable, definite habitat tree. Marri nut feeding evidence.	-32.376874	116.178606	422592.5397	6417342.697
5	Eucalyptus marginata	1000	1	250	25	highly suitable. Chew marks on hollow. Possible breeding tree.	-32.404737	116.199166	424550.3764	6414268.437
6	Eucalyptus marginata	1200	1	250	20	potential suitable	-32.401955	116.198923	424525.3381	6414576.558
7	Eucalyptus marginata	1300	1	150	20	potential suitable	-32.38100	116.188038	423483.4956	6416892.131

No.	Species	DBH (mm)	No. of hollows	Hollow Entrance size (mm)	Hollow Height from ground (m)	Hollow suitability	Latitude (Lat)	Longitude (Long)	Eastings (AGD)	Northings (AGD)
8	Corymbia calophylla	1200	1	250	20	potential suitable	-32.382708	116.191349	423796.4542	6416705.158
9	Corymbia calophylla	1700	1	350	-	Highly suitable breeding habitat tree. Chew marks around hollow entrance.	-32.370591	116.167281	421521.9052	6418030.899
10	Corymbia calophylla	1400	1	250	25	Highly suitable breeding habitat tree	-32.360584	116.157548	420597.5375	6419132.985
11	Corymbia calophylla	1100	1	200	20	possible very suitable	-32.377693	116.182232	422934.3794	6417254.531
12	Eucalyptus marginata	1000	1	350	20	Highly suitable breeding habitat tree. Chew marks hollow entrance.	-32.364114	116.160495	420877.8852	6418743.862
13	Corymbia calophylla	1600	1	600	25	Potential suitable breeding tree	-32.380082	116.177764	422516.12	6416986.465
14	Corymbia calophylla	1000	1	250	15	potential suitable	-32.402844	116.198714	424506.3728	6414477.904
15	Corymbia calophylla	1400	1	350	25	Highly suitable breeding habitat tree. Chew marks hollow entrance.	-32.361094	116.158318	420670.4304	6419077.019
16	Eucalyptus marginata	1100	1	350	25	Highly suitable breeding habitat tree. Chew marks hollow entrance.	-32.358442	116.139983	418942.9504	6419357.306
17	Eucalyptus marginata	1000	1	250	20	Highly suitable breeding habitat tree. Chew marks hollow entrance.	-32.364454	116.156324	420485.7502	6418703.084
18	Corymbia calophylla	800	2	200	20	Highly likely a breeding tree, with lots of chew marks around hollow entrance	-32.36340	116.150436	419930.8495	6418815.538
19	Eucalyptus marginata	1000	1	250	15	possibly very suitable, definite habitat tree	-32.347769	116.182375	422922.5641	6420571.602
20	Eucalyptus marginata	700	1	200	15	possibly very suitable, definite habitat tree	-32.390861	116.234683	427879.1217	6415831.369
21	Eucalyptus marginata	1300	3	250	15	possibly very suitable, definite habitat tree	-32.347659	116.194943	424105.2971	6420592.801

No.	Species	DBH (mm)	No. of hollows	Hollow Entrance size (mm)	Hollow Height from ground (m)	Hollow suitability	Latitude (Lat)	Longitude (Long)	Eastings (AGD)	Northings (AGD)
22	Eucalyptus marginata	700	1	200	15	possibly very suitable, definite habitat tree	-32.345103	116.176820	422397.5438	6420863.142
23	Eucalyptus marginata	1100	1	200	15	possibly very suitable, definite habitat tree	-32.384309	116.239253	428303.7281	6416560.668
24	Eucalyptus marginata	1300	1	200	15	possibly very suitable, definite habitat tree	-32.347375	116.196876	424287.0025	6420625.659
25	Eucalyptus marginata	2000	2	350	25	Highly suitable breeding habitat tree. Chew marks around hollow entrance.	-32.358569	116.142814	419209.4372	6419345.361

Conservation significant fauna habitat trees supporting hollows identified within the survey area

No.	Species	Fauna species	DBH (mm)	No. of hollows	Latitude (Lat)	Longitude (Long)	Eastings (AGD)	Northings (AGD)
1	Eucalyptus marginata	South-Western Brush-Tailed Phascogale	900	1	-32.384986	116.170172	421806.2706	6416437.302
2	Corymbia calophylla	South-Western Brush-Tailed Phascogale	1300	1	-32.379715	116.187828	423462.6119	6417034.422
3	Corymbia calophylla	South-Western Brush-Tailed Phascogale	900	1	-32.388544	116.169954	421788.8381	6416042.726
4	Eucalyptus marginata	South-Western Brush-Tailed Phascogale	800	2	-32.384255	116.172595	422033.5382	6416520.105
5	Corymbia calophylla	South-Western Brush-Tailed Phascogale	1300	1	-32.394213	116.201764	424786.1414	6415436.764
6	Eucalyptus marginata	South-Western Brush-Tailed Phascogale	600	1	-32.404028	116.182876	423017.6506	6414335.812
7	Eucalyptus marginata	South-Western Brush-Tailed Phascogale	1800	3	-32.374465	116.175500	422298.2616	6417607.491
8	Eucalyptus marginata	South-Western Brush-Tailed Phascogale	700	3	-32.386958	116.184605	423165.7137	6416229.207
9	Eucalyptus marginata	South-Western Brush-Tailed Phascogale	1200	1	-32.373925	116.173390	422099.3351	6417665.815

No.	Species	Fauna species	DBH (mm)	No. of hollows	Latitude (Lat)	Longitude (Long)	Eastings (AGD)	Northings (AGD)
10	Eucalyptus marginata	South-Western Brush-Tailed Phascogale	900	1	-32.386423	116.169182	421714.3997	6416277.28
11	Corymbia calophylla	South-Western Brush-Tailed Phascogale	600	1	-32.404616	116.182727	423004.1539	6414270.54
12	Eucalyptus marginata	South-Western Brush-Tailed Phascogale	1700	1	-32.344518	116.17373	422106.2661	6420925.769
13	Eucalyptus marginata	South-Western Brush-Tailed Phascogale	900	1	-32.361327	116.204176	424985.1535	6419084.182
14	Eucalyptus marginata	South-Western Brush-Tailed Phascogale	1200	1	-32.348601	116.183616	423040.0508	6420480.259
15	Eucalyptus marginata	South-Western Brush-Tailed Phascogale	900	3	-32.362538	116.149026	419797.4291	6418910.042
16	Eucalyptus marginata	South-Western Brush-Tailed Phascogale	800	1	-32.362337	116.135588	418532.9012	6418922.211
17	Eucalyptus marginata	Masked Owl	1100	1	-32.362847	116.150052	419894.2345	6418876.554

Remote camera data

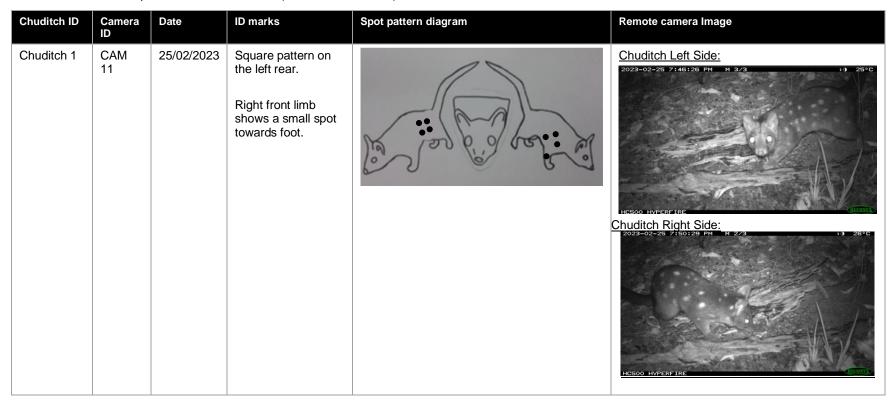
Camera number	Set date	Collect date	Lat	Long	Eastings (AGD)	Northings (AGD)
CAM HF12	20/02/2023	20/03/2023	-32.37091936	116.1810785	422820.0946	6418004.548
CAM 6	20/02/2023	20/03/2023	-32.394005	116.23396	427813.6039	6415482.349
CAM 8	20/02/2023	20/03/2023	-32.38833854	116.2386881	428253.7746	6416113.626
CAM C43	20/02/2023	21/03/2023	-32.44324371	116.1812133	422894.3535	6409987.08
CAM HP4	20/02/2023	21/03/2023	-32.42005777	116.2250912	427000.3662	6412588.227
CAM 19	20/02/2023	20/03/2023	-32.34304648	116.1692912	421687.289	6421085.686
CAM NO NAME	20/02/2023	20/03/2023	-32.37382469	116.2029309	424878.3196	6417697.965
CAM B1	20/02/2023	21/03/2023	-32.40306204	116.1827424	423004.2437	6414442.776
CAM 52	20/02/2023	20/03/2023	-32.37860275	116.2384147	428220.4025	6417192.632
CAM 28	20/02/2023	20/03/2023	-32.38240987	116.1887441	423551.1627	6416736.357
CAM C(42)	20/02/2023	21/03/2023	-32.44748106	116.1941861	424117.4119	6409526.69
CAM HF10	20/02/2023	20/03/2023	-32.35344808	116.1704094	421801.5427	6419933.424
CAM 11	20/02/2023	20/03/2023	-32.32773919	116.1420485	419109.9848	6422762.371
CAM 2	20/02/2023	20/03/2023	-32.36058266	116.1373397	418696.1471	6419118.011
CAM 14	19/02/2023	20/03/2023	-32.34099404	116.2064796	425185.4319	6421339.847
CAM 5	20/02/2023	21/03/2023	-32.38592971	116.1669362	421502.736	6416330.318
CAM R41	20/02/2023	21/03/2023	-32.43165114	116.2348365	427925.8792	6411309.688

Significant fauna recorded on camera

Camera No.		<u>14</u>	<u>11</u>	<u> 28</u>	<u>5</u>	<u>8</u>	<u>6</u>	2	<u>12</u>	<u>42</u>	No Name	<u>19</u>	<u>4</u>	<u>10</u>	<u>1</u>	<u>52</u>	<u>41</u>	<u>43</u>
Common name	Scientific Name	-	-	-	-	-	-	-		-	-			-				
Chuditch	Dasyurus geoffroii		4							1	1							2
Brushed Tailed Phascogale	Phascogale tapoatafa wambenger							1										
Southern Brown Bandicoot*	Isoodon obesulus fusciventer														1			

Chuditch Camera Capture (Dasyurus geoffroii) Physical Assessment data

Spot patterns of Chuditch were examined in detail and used to identify individuals from camera trap photographs. In order to use these patterns to identify individuals, accurate and proportionate sketches were made of the top of the head, back, left and right sides of individual Chuditch from the photographs taken by the remote cameras. Each sketch aimed to provide a useful summary that strongly aided subsequent recognition of individuals (Hohnen *et al* 2015). The spot patterns were examined to determine whether the Chuditch in question was new or a previously viewed individual. Often two or more key spot patterns were visible in a photograph of a single side (e.g. one group on the shoulder and one on the haunch). When these key collections of spots could be matched and no area of the coat had con-complementary patterns, it was deemed to be the same individual. Therefore a clear view of a single side was sufficient to confirm the identify of the individual, if that individual had been previously identified. Only good quality images showing two or more clear spot patterns were used for identification and photographs with obscured or blurred patterns were not used (Hohnen *et al* 2015).



Chuditch ID	Camera ID	Date	ID marks	Spot pattern diagram	Remote camera Image
Chuditch 2	CAM 11	27/02/2023	Five defined spots in a straight line running from front left limb to rear left limb. Two spots creating a square among the spot line. Four dots on mid right rear with a tight triangle and an outlying defined spot.		Chuditch Left Side: 2023-02-27 7135135 PH H 2/3 MCSOO HYPERFIRE Chuditch Right Side: 2023-02-27 7130154 PM M 2/3 HCSOO HYPERFIRE
Chuditch 3	CAM 11	12/03/2023	Six defined spots on the mid right side creating two lines of three. Two defined spots on the rear left limb and two defined spots mid upper left.	E SOLO LOS ES	Chuditch Left Side: 2023-03-12 9:57:21 PH H 2/3 HC500 HYPERFIRE Chuditch Right Side:

CAM 13			2023-03-12 8:57:10 PM M 3/3 if 21°C
			HC500 HYPERFIRE
1	Three defined spots running in a straight line from the front left limb to the mid body. Three defined spots on the rear right limb and three less defined spots behind the right ear.	The same of the sa	Chuditch Left Side: 2023-03-13 11:59:11 PM M 1/3
	Three less defined spots on the head. One above the left brow, one under the right ear and one centre between both ears.		Chuditch Right Side: 2023-03-13 11:59:28 PM H 2/3 HC500 HVPERFIRE Chuditch Head View:
		line from the front left limb to the mid body. Three defined spots on the rear right limb and three less defined spots behind the right ear. Three less defined spots on the head. One above the left brow, one under the right ear and one centre between both	line from the front left limb to the mid body. Three defined spots on the rear right limb and three less defined spots behind the right ear. Three less defined spots on the head. One above the left brow, one under the right ear and one centre between both

Chuditch ID	Camera ID	Date	ID marks	Spot pattern diagram	Remote camera Image
					2023-03-13 11:59:24 PM M 2/3 16 17°C
Chuditch 5 *(Only two images captured, possibly Chuditch 1).	CAM 11	18/03/2023	Three visible spots on head in a triangle pattern above the left eye. Four defined spots on the rear upper left limb creating a square. One less defined spot between the upper two defined spots of the square pattern.	The state of the s	Chuditch Head/Left View: 2023-03-18 11:22:57 PM M 1/3 10 13°C HC500 HYPERFIRE
Chuditch 6	CAM 42	11/03/2023	Three defined spots in a triangle on the rear left side with two smaller bludges within. Three defined spots in a tight triangle pattern behind the right ear.	The state of the s	Chuditch Left View: 2023-03-11 9:19:12 FM M 3/3 HMPERFIRE 2 COVERT Chuditch Right View:

Chuditch ID	Camera ID	Date	ID marks	Spot pattern diagram	Remote camera Image
					2023-03-11 9:18:44 PM M 1/3 :
Chuditch 7	CAM No Name	12/03/2023	Four defined spots in the pattern of two separate triangle on the rear right limb. Three defined spots in a line on the rear left limb and one defined spot of the line creating a triangle.	The state of the s	Chuditch Right View: 2023-03-12 10:35:31 PM M 10 17°C HYPERFIRE 2 COVERT EXCUSSION
					Chuditch Left View: 2023-03-12 10:36:35 PM M 16 17°C HYPERFIRE 2 COVERT

Chuditch ID	Camera ID	Date	ID marks	Spot pattern diagram	Remote camera Image
Chuditch 8	CAM 43	22/02/2023	Three distinct spots located behind the right ear with one of the spots merging behind the ear with another. Three defined spots creating a line in the mid area and one defined spot moving to the spine.	Service of the servic	Chuditch Right View: 2023-02-22 7157:00 PM M 3/3 HYPERFIRE 2 COVERT Chuditch Left View: 2023-02-22 7156:11 PM M 1/3 HYPERFIRE 2 COVERT
Chuditch 9	CAM 43	27/02/2023	Three distinct spots in a line located on the rear. Four distinct spots located on the front right limb in a square pattern.	The state of the s	Chuditch Left View: 2023-02-27 10:58:22 PM M 1/3 1) 25°C HYPERFIRE 2 COVERT

Camera ID	Date	ID marks	Spot pattern diagram	Remote camera Image
				Chuditch Right View: 2023-02-27 10:57:43 PM M 1/3 11) 25°C Hyperfire 2 covert

Reference

Hohnen, R, Ashby, J, Tuft, K, & McGregor, H 2012, 'Individual identification of northern quolls (Dasyurus hallacatus) using remote cameras', Australian Mammalogy, CSIRO Publishing. http://dx.doi.org/10.1071/AM12015.

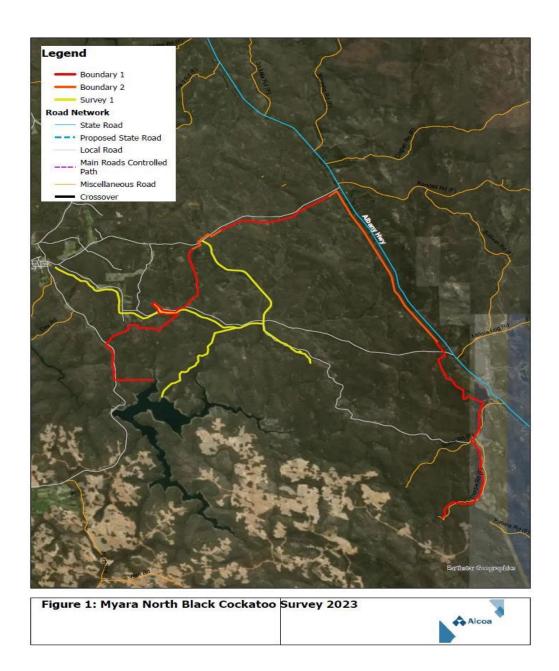


→ The Power of Commitment

Appendix 8 – Myara North Power/Water Alignments, Black Cockatoo Breeding Habitat Survey (Kirkby, 2022)

MYARA NORTH POWER/WATER/BOUNDARY ALIGNMENTS, BLACK COCKATOO BREEDING HABITAT SURVEY.

The purpose of the survey was to locate black cockatoo nests, possible nests and habitat trees at the Myara North Power/Water/Boundary alignments.



Methods and timing

The areas were surveyed using Alcoa's 'Procedure for surveying haul road alignments and mine pits for black cockatoo habitat (MIN).

Trees are described as:

- <u>Nest trees</u> that show signs of use by black cockatoos, including worn and chewed entrance of
 a suitable sized hollow (NB: it is possible some of these trees no longer provide suitable nest
 habitat but have either been used as nests in the past or been well prospected by cockatoos);
- <u>Possible nest trees</u> that have a suitable size and shape hollow entrance but show no signs of
 use. During assessment of these trees, the position, entrance size and orientation of the hollow
 should be considered because these will influence the likelihood of a suitable depth of hollow
 for cockatoos;
- <u>Habitat trees</u> mature marri trees (>500mm diameter) that have the potential to provide nest habitat in the future either based on:
 - i) Already starting to develop a hollow; or
 - ii) Tree form conducive to hollow formation/development such as elbows or major V branching of primary trunk (that may hollow out); tall, straight trunked trees, particularly showing signs of decay (that may form a top entrance hollow in the event of the top of the trunk being blown off); trees with major branches coming off the main trunk (that may hollow out if branch drops).
- Roost sites groups of trees with evidence of roosting, e.g. bird faeces and feathers found beneath the roost trees.

Note. The above mentions Marri trees but the current surveys also include Blackbutt *Eucalyptus* patens, Bullich *E. megacarpa* and Flooded Gum *E. patens*. These species provide nest hollows but are restricted in distribution to wet areas and creeklines and are rarely encountered other than where a haul road crosses a stream zone.

Alcoa's current surveys also allow for significant stands of suitable trees (>500mm diameter) which may provide a future hollow but are not necessarily forming a hollow at present.

Jarrah and Blackbutt above 2000mm dia. and Marri above 1500mm dia. are considered 'Significant Trees' and were also noted during the survey.

Parts of the Power and Water alignments were surveyed in a previous survey (Myara North power and water alignments 22-23). This was originally a 40m corridor but was widened during the present survey to 100m. The 2022-2023 40m width was not resurveyed.

For the most part the boundary fence alignment was also surveyed to a width of 50m either side of the centreline. This was later reviewed and the fence line between Solus Rd (430934E - 6414701N) and Millars Log Rd (429291E - 6417055N) was surveyed to a 30m wide corridor.

All trees of interest were picked up using handheld GPS. AGD84. Nest trees were marked 'H.' with white paint and tagged with a stainless-steel number tag.

The diameter of Nest Trees and Significant Trees was measured accurately while the diameter of possible nest trees was approximate.

The survey was undertaken between November 2023 to January 2024 by Tony Kirkby who has over 20 years of experience conducting black cockatoo surveys in the south-west of Western Australia.

Results

A total of 636 trees were picked up during the survey. See spreadsheet for details.

Tree species and number

- Marri 441
- Bullich 5
- Blackbutt 179
- Jarrah 1
- Flooded Gum 10

Nest trees

- Marri 20
- Blackbutt 1
- Bullich 2

•

Possible nest trees

• Marri – 27

Significant trees

- <u>Marri − 2</u>
- Blackbutt 3
- Jarrah 1

Roost sites

No roost sites were located during the survey.

Tony Kirkby

7th February 2024

Date	Mine	Nest_type	Tree_species	Tree_condition	Tree_diameter_dbh Ho	ollow_type Hollow _u: i	Bees Camera	Nest_ID	Location	Comment EastingAGD N	NorthingAG Protec	ct_Status Action	Record_no GPS_source Change_record	led Ider Status
13/11/202	3 Myara North	Habitat	Marri	Good	1000				PW alignment	419034	6422794		1324 Garmin	TK
13/11/202	3 Myara North	Habitat	Marri	Good	900				PW alignment	419199	6422705		1325 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	600				PW alignment	419252	6422662		1327 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	600				PW alignment	419247	6422666		1328 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	600				PW alignment	419251	6422659		1329 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	900				PW alignment	419322	6422500		1330 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	700				PW alignment	419319	6422498		1331 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	1200				PW alignment	420993	6420970		1332 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	800				PW alignment	421080	6420860		1333 Garmin	TK
14/11/202	3 Myara North	Habitat	Blackbutt	Good	1200				PW alignment	421065	6420861		1334 Garmin	TK
14/11/202	3 Myara North	Habitat	Blackbutt	Good	1200				PW alignment	421822	6419815		1335 Garmin	TK
14/11/202	3 Myara North	Habitat	Blackbutt	Good	1000				PW alignment	421533	6419123		1336 Garmin	TK
14/11/202	3 Myara North	Habitat	Blackbutt	Good	600				PW alignment	421535	6419114		1337 Garmin	TK
14/11/202	3 Myara North	Habitat	Blackbutt	Good	500				PW alignment	421530	6419102		1338 Garmin	TK
14/11/202	3 Myara North	Habitat	Blackbutt	Good	1000				PW alignment	421528	6419088		1339 Garmin	TK
14/11/202	3 Myara North	Habitat	Blackbutt	Good	1000				PW alignment	421528	6419077		1340 Garmin	TK
14/11/202	3 Myara North	Habitat	Blackbutt	Good	600				PW alignment	421518	6419065		1341 Garmin	TK
14/11/202	3 Myara North	Habitat	Blackbutt	Good	1300				PW alignment	421505	6419066		1342 Garmin	TK
14/11/202	3 Myara North	Habitat	Blackbutt	Good	700				PW alignment	421501	6419057		1343 Garmin	TK
14/11/202	3 Myara North	Habitat	Blackbutt	Good	1000				PW alignment	421505	6419040		1344 Garmin	TK
14/11/202	3 Myara North	Habitat	Blackbutt	Good	1000				PW alignment	421528	6418860		1345 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	1000				PW alignment	419932	6421501		1350 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	1000				PW alignment	419823	6421572		1352 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	1100				PW alignment	419522	6421863		1353 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	1000				PW alignment	419465	6422096		1354 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	800				PW alignment	419460	6422096		1355 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	600				PW alignment	419450	6422102		1357 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	800				PW alignment	419367	6422238		1358 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	600				PW alignment	419367	6422293		1360 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	600				PW alignment	419393	6422374		1361 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	600				PW alignment	419418	6422368		1362 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	500				PW alignment	419411	6422443		1363 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	500				PW alignment	419404	6422451		1364 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	700				PW alignment	419397	6422445		1365 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	600				PW alignment	419377	6422446		1366 Garmin	TK
	3 Myara North		Marri	Good	600				PW alignment	419375	6422450		1367 Garmin	TK
	3 Myara North		Marri	Good	600				PW alignment	419370	6422422		1368 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	700				PW alignment	419306	6422630		1369 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	600				PW alignment	419307	6422632		1370 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	1000				PW alignment	419323	6422647		1371 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	600				PW alignment	419327	6422657		1372 Garmin	TK
	3 Myara North		Marri	Good	600				PW alignment	419279	6422680		1373 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	600				PW alignment	419275	6422689		1374 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	600				PW alignment	419263	6422694		1375 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	800				PW alignment	419296	6422652		1377 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	1000				PW alignment	419200	6422749		1378 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	500				PW alignment	419218	6422736		1379 Garmin	TK
	3 Myara North		Marri	Good	600				PW alignment	419229	6422747		1380 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	600				PW alignment	419215	6422769		1381 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	1000				PW alignment	415213	6420336		1383 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	700				PW alignment	415375	6420191		1384 Garmin	TK
	3 Myara North		Marri	Good	1000				PW alignment	415368	6420195		1385 Garmin	TK
	3 Myara North		Marri	Good	600				PW alignment	415397	6420167		1388 Garmin	TK
	3 Myara North		Marri	Good	800				PW alignment	415450	6419987		1389 Garmin	TK
	3 Myara North		Marri	Good	1100				PW alignment	416251	6419053		1390 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	600				PW alignment	416416	6418923		1391 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	1000				PW alignment	416421	6418928		1392 Garmin	TK
	3 Myara North		Marri	Good	1000				PW alignment	416731	6418978		1393 Garmin	TK
	3 Myara North		Marri	Good	800				PW alignment	416769	6419028		1394 Garmin	TK
	3 Myara North		Marri	Good	900				PW alignment	417023	6419168		1395 Garmin	TK
	3 Myara North		Marri	Good	800				PW alignment	417022	6419154		1396 Garmin	TK
14/11/202	3 Myara North	Habitat	Marri	Good	1100				PW alignment	416807	6419076		1400 Garmin	TK

14/11/2023 Myara North	Habitat	Marri	Good	1100	PW alignment	416222	6419132	1402 Garmin	TK
14/11/2023 Myara North	Habitat	Marri	Good	600	PW alignment	416166	6419170	1403 Garmin	TK
14/11/2023 Myara North	Habitat	Marri	Good	1100	PW alignment	416141	6419217	1404 Garmin	TK
14/11/2023 Myara North	Habitat	Marri	Good	800	PW alignment	416137	6419218	1405 Garmin	TK
14/11/2023 Myara North	Habitat	Marri	Good	1100	PW alignment	415757	6419203	1406 Garmin	TK
15/11/2023 Myara North	Habitat	Marri	Good	1200	PW alignment	418760	6417016	1407 Garmin	TK
15/11/2023 Myara North	Habitat	Marri	Good	900	PW alignment	418769	6416967	1408 Garmin	TK
15/11/2023 Myara North	Habitat	Marri	Good	900	PW alignment	418774	6416975	1409 Garmin	TK
15/11/2023 Myara North	Habitat	Marri	Good	900	PW alignment	418771	6416921	1411 Garmin	TK
15/11/2023 Myara North	Habitat	Marri	Good	700	PW alignment	418773	6416740	1412 Garmin	TK
15/11/2023 Myara North	Habitat	Marri	Good	700	PW alignment	418770	6416731	1413 Garmin	TK
15/11/2023 Myara North		Marri	Good	800	PW alignment	417838	6415642	1415 Garmin	TK
15/11/2023 Myara North			Good	800	PW alignment	418061	6416096	1418 Garmin	TK
15/11/2023 Myara North			Good	1000	PW alignment	418059	6416102	1419 Garmin	TK
15/11/2023 Myara North			Good	1000	PW alignment	418067	6416128	1420 Garmin	TK
15/11/2023 Myara North			Good	900	PW alignment	418105	6416161	1422 Garmin	TK
15/11/2023 Myara North			Good	1000	PW alignment	418123	6416170	1423 Garmin	TK
15/11/2023 Myara North		Marri	Good	1000	PW alignment	418142	6416167	1424 Garmin	TK
15/11/2023 Myara North			Good	1000	PW alignment	418692	6416515	1426 Garmin	TK
15/11/2023 Myara North			Good	900	PW alignment	418722	6416543	1427 Garmin	TK
15/11/2023 Myara North			Good	1000	PW alignment	418722	6416552	1428 Garmin	TK
15/11/2023 Myara North			Good	1000	PW alignment	418730	6416558	1429 Garmin	TK
17/11/2023 Myara North		Marri	Good	1100	PW alignment	420257	6418452	1431 Garmin	TK
17/11/2023 Myara North 17/11/2023 Myara North			Good	1000	PW alignment	420255 430324	6418453 6412789	1432 Garmin 1433 Garmin	TK
17/11/2023 Myara North			Good Good	1100 1000	Boundary 1 Boundary 1	430324	6412767	1434 Garmin	TK TK
17/11/2023 Myara North			Good	500	Boundary 1	430337	6412764	1435 Garmin	TK
17/11/2023 Myara North			Good	600	Boundary 1	430341	6412747	1436 Garmin	TK
17/11/2023 Myara North			Good	1200	Boundary 1	430711	6411846	1437 Garmin	TK
17/11/2023 Myara North			Good	1200	Boundary 1	430674	6411469	1438 Garmin	TK
17/11/2023 Myara North			Good	1300	Boundary 1	430679	6410130	1439 Garmin	TK
17/11/2023 Myara North			Good	1100	Boundary 1	430265	6409598	1440 Garmin	TK
17/11/2023 Myara North			Good	1200	Boundary 1	430268	6409573	1441 Garmin	TK
17/11/2023 Myara North			Good	1100	Boundary 1	430256	6409559	1442 Garmin	TK
17/11/2023 Myara North			Good	1200	Boundary 1	430282	6409577	1443 Garmin	TK
17/11/2023 Myara North			Good	800	Boundary 1	430310	6409587	1444 Garmin	TK
17/11/2023 Myara North			Good	1100	Boundary 1	430331	6409593	1445 Garmin	TK
17/11/2023 Myara North	Habitat	Blackbutt	Good	1200	Boundary 1	430342	6409608	1446 Garmin	TK
17/11/2023 Myara North		Blackbutt	Good	1100	Boundary 1	430333	6409610	1447 Garmin	TK
17/11/2023 Myara North	Habitat	Blackbutt	Good	1400	Boundary 1	430320	6409617	1448 Garmin	TK
17/11/2023 Myara North	Habitat	Blackbutt	Good	1000	Boundary 1	430296	6409605	1449 Garmin	TK
17/11/2023 Myara North	Habitat	Blackbutt	Good	1000	Boundary 1	430300	6409605	1450 Garmin	TK
17/11/2023 Myara North	Habitat	Blackbutt	Good	800	Boundary 1	430398	6409602	1452 Garmin	TK
17/11/2023 Myara North	Habitat	Blackbutt	Good	1000	Boundary 1	430400	6409637	1453 Garmin	TK
17/11/2023 Myara North	Habitat	Blackbutt	Good	900	Boundary 1	430393	6409647	1454 Garmin	TK
17/11/2023 Myara North			Good	1000	Boundary 1	430481	6409638	1456 Garmin	TK
17/11/2023 Myara North			Good	1000	Boundary 1	430491	6409627	1457 Garmin	TK
17/11/2023 Myara North			Good	1100	Boundary 1	430503	6409639	1458 Garmin	TK
17/11/2023 Myara North			Good	1000	Boundary 1	430508	6409635	1459 Garmin	TK
17/11/2023 Myara North			Good	900	Boundary 1	430499	6409640	1460 Garmin	TK
17/11/2023 Myara North			Good	1000	Boundary 1	430488	6409654	1461 Garmin	TK
17/11/2023 Myara North			Good	1000	Boundary 1	430470	6409689	1462 Garmin	TK
17/11/2023 Myara North		Marri	Good	900	Boundary 1	430459	6409688	1463 Garmin	TK
17/11/2023 Myara North		Marri	Good	500	Boundary 1	430474	6409706	1464 Garmin	TK
17/11/2023 Myara North			Good	700 1100	Boundary 1	430502	6409744	1465 Garmin	TK
17/11/2023 Myara North			Good	1100	Boundary 1	430509	6409787	1466 Garmin	TK TV
17/11/2023 Myara North 17/11/2023 Myara North			Good	900	Boundary 1	430515	6409811 6409857	1467 Garmin 1468 Garmin	TK TK
17/11/2023 Myara North			Good	1000	Boundary 1	430526	6409912	1469 Garmin	TK TK
17/11/2023 Myara North			Good Good	1000 1200	Boundary 1 Boundary 1	430654 430661	6409912 6409902	1470 Garmin	TK TK
17/11/2023 Myara North			Good	1000	Boundary 1	430661	6409893	1471 Garmin	TK
17/11/2023 Myara North			Good	1500	Boundary 1	430709	6409968	1472 Garmin	TK
17/11/2023 Myara North		Blackbutt	Good	1100	Boundary 1	430703	6410007	1472 Garmin	TK
I, II, 2023 IVIYAIA IVOITII	abitat	Sidenbutt		1100	Doundary 1	750/12	0.10007	1.75 Guillini	i K

17/11/2023 Myara North Habitat	Blackbutt	Good	1200	Boundary 1	430711	6410011	1474 Garmin	TK
17/11/2023 Myara North Habitat	Marri	Good	1000	Boundary 1	430668	6409955	1476 Garmin	TK
17/11/2023 Myara North Habitat	Blackbutt	Good	1200	Boundary 1	430643	6409929	1477 Garmin	TK
17/11/2023 Myara North Habitat	Blackbutt	Good	800	Boundary 1	430729	6410127	1478 Garmin	TK
17/11/2023 Myara North Habitat	Blackbutt	Good	1000	Boundary 1	430746	6410120	1479 Garmin	TK
17/11/2023 Myara North Habitat	Blackbutt	Good	1000	Boundary 1	430751	6410128	1480 Garmin	TK
17/11/2023 Myara North Habitat	Blackbutt	Good	700	Boundary 1	430747	6410186	1481 Garmin	TK
17/11/2023 Myara North Habitat	Blackbutt	Good	1100	Boundary 1	430707	6410167	1482 Garmin	TK
17/11/2023 Myara North Habitat	Blackbutt	Good	1000	Boundary 1	430780	6410387	1483 Garmin	TK
17/11/2023 Myara North Habitat	Marri	Good	900	Boundary 1	430822	6410615	1484 Garmin	TK
17/11/2023 Myara North Habitat	Marri	Good	1000	Boundary 1	430807	6411133	1485 Garmin	TK
17/11/2023 Myara North Habitat	Marri	Good	600	Boundary 1	430814	6411141	1486 Garmin	TK
17/11/2023 Myara North Habitat	Blackbutt	Good	1000	Boundary 1	430724	6412260	1487 Garmin	TK
17/11/2023 Myara North Habitat	Marri	Good	1000	Boundary 1	430503	6412534	1488 Garmin	TK
17/11/2023 Myara North Habitat		Good	600	Boundary 1	430352	6412742	1490 Garmin	TK
17/11/2023 Myara North Habitat	Marri Marri	Good	700	Boundary 1	430352	6412757	1491 Garmin	TK
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17/11/2023 Myara North Habitat	Marri	Good	500	Boundary 1	430352	6412749	1492 Garmin	TK
20/12/2023 Myara North Habitat	Marri	Good	800	Boundary 1	412837	6421426	1494 Garmin	TK
20/12/2023 Myara North Habitat	Marri	Good	1000	PW alignment	412830	6421421	1495 Garmin	TK
20/12/2023 Myara North Habitat	Marri	Good	1100	PW alignment	413436	6421108	1497 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	900	PW alignment	413578	6421025	1498 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	900	PW alignment	413601	6420994	1499 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1500	PW alignment	413581	6420991	1500 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	600	PW alignment	413630	6420986	1501 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	800	PW alignment	413632	6420984	1502 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	700	PW alignment	413890	6420796	1503 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	600	PW alignment	413902	6420809	1504 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	600	PW alignment	413949	6420797	1505 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1000	PW alignment	414320	6420453	1506 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1500	PW alignment	414430	6420341	1507 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	900	PW alignment	414647	6420309	1509 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1200	PW alignment	414826	6420396	1513 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	800	PW alignment	414814	6420389	1514 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	600	PW alignment	414791	6420385	1515 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	900	PW alignment	414789	6420383	1516 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	600	PW alignment	414505	6420325	1517 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1000	PW alignment	414503	6420326	1518 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	800	PW alignment	414428	6420403	1519 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	800	PW alignment	414424	6420405	1520 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1000	PW alignment	414395	6420485	1521 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	800	PW alignment	414256	6420566	1522 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	800	PW alignment	414245	6420573	1523 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1000	PW alignment	414262	6420615	1524 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	600	PW alignment	414185	6420637	1525 Garmin	TK
20/11/2023 Myara North Habitat	Marri		800	PW alignment	412988	6421386	1526 Garmin	TK
•		Good			412368	6419409	1527 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1200	Boundary 2				
20/11/2023 Myara North Habitat	Marri	Good	900	Boundary 2	427604	6419435	1528 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1000	Boundary 2	427567	6419494	1529 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1100	Boundary 2	427462	6419678	1530 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1200	Boundary 2	427263	6420139	1531 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1000	Boundary 2	427264	6420133	1532 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	700	Boundary 2	426902	6421178	1533 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1500	Boundary 2	426919	6421211	1535 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1000	Boundary 2	426824	6421389	1536 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	900	Boundary 2	426819	6421382	1537 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1300	Boundary 2	426780	6421481	1538 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1000	Boundary 2	426434	6422219	1539 Garmin	TK
20/11/2023 Myara North Habitat	Flooded Gum	Good	600	Boundary 2	425553	6423676	1542 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	600	Boundary 2	425498	6423825	1546 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	600	Boundary 2	425476	6423847	1547 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	600	Boundary 2	425470	6423859	1548 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	700	Boundary 2	425425	6423902	1549 Garmin	TK
20/11/2023 Myara North Habitat	Marri	Good	1000	Boundary 2	425274	6424057	1550 Garmin	TK
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20/11/2023 Myara North H	abitat	Marri	Good	1000	Boundary 2	425304	6424095	1551 Garmin	TK
20/11/2023 Myara North H		Marri	Good	1200	Boundary 2	425198	6424167	1552 Garmin	TK
20/11/2023 Myara North H	abitat	Marri	Good	1000	Boundary 2	425089	6424490	1553 Garmin	TK
20/11/2023 Myara North Ha	abitat	Marri	Good	1000	Boundary 2	425084	6424501	1554 Garmin	TK
20/11/2023 Myara North Ha	abitat	Marri	Good	800	Boundary 2	425073	6424513	1555 Garmin	TK
20/11/2023 Myara North Ha	abitat	Marri	Good	800	Boundary 2	424585	6425289	1556 Garmin	TK
20/11/2023 Myara North H	abitat	Marri	Good	700	Boundary 1	424130	6424923	1557 Garmin	TK
20/11/2023 Myara North Ha	abitat	Marri	Good	1000	Boundary 1	424036	6424838	1558 Garmin	TK
20/11/2023 Myara North H	abitat	Marri	Good	600	Boundary 1	423557	6424556	1559 Garmin	TK
20/11/2023 Myara North H	abitat	Marri	Good	1000	Boundary 1	423469	6424576	1560 Garmin	TK
20/11/2023 Myara North H	abitat	Marri	Good	600	Boundary 1	423459	6424565	1561 Garmin	TK
21/11/2023 Myara North H	abitat	Blackbutt	Good	1000	Boundary 1	423354	6424474	1562 Garmin	TK
21/11/2023 Myara North H			Good	1200	Boundary 1	423322	6424511	1563 Garmin	TK
21/11/2023 Myara North H		Marri	Good	600	Boundary 1	423470	6424632	1564 Garmin	TK
21/11/2023 Myara North H		Marri	Good	1100	Boundary 1	423463	6424650	1565 Garmin	TK
21/11/2023 Myara North H		Marri	Good	600	Boundary 1	423565	6424636	1566 Garmin	TK
21/11/2023 Myara North H			Good	500	Boundary 1	423567	6424650	1567 Garmin	TK
21/11/2023 Myara North H		Marri	Good	600	Boundary 1	423584	6424676	1568 Garmin	TK
21/11/2023 Myara North H			Good	800	Boundary 1	423618	6424676	1569 Garmin	TK
21/11/2023 Myara North H			Good	1000	Boundary 1	424072	6424963	1570 Garmin	TK
21/11/2023 Myara North H		Marri	Good	600	Boundary 1	424112	6424977	1571 Garmin	TK
21/11/2023 Myara North H			Good	800	Boundary 2	424463	6425209	1572 Garmin	TK
21/11/2023 Myara North H		Marri	Good	1000 1000	Boundary 1	430570 430440	6413286 6412884	1573 Garmin 1574 Garmin	TK
21/11/2023 Myara North H		Marri	Good		Boundary 1	430440	6412866	1575 Garmin	TK TV
21/11/2023 Myara North Ha 21/11/2023 Myara North Ha			Good Good	1000 1000	Boundary 1 Boundary 1	430533	6413002	1576 Garmin	TK TK
21/11/2023 Myara North H			Good	1200	Boundary 1	430533	6413228	1580 Garmin	TK
21/11/2023 Myara North H		Marri	Good	1000	Boundary 1	430639	6413223	1581 Garmin	TK
21/11/2023 Myara North H			Good	1100	Boundary 1	430648	6413332	1582 Garmin	TK
21/11/2023 Myara North H			Good	900	Boundary 1	430687	6413384	1583 Garmin	TK
21/11/2023 Myara North H			Good	800	Boundary 1	430679	6413452	1584 Garmin	TK
21/11/2023 Myara North H			Good	900	Boundary 1	430715	6414194	1585 Garmin	TK
26/11/2023 Myara North H			Good	1000	Boundary 1	422957	6424232	51 Garmin	TK
26/11/2023 Myara North H			Good	900	Boundary 1	422946	6424210	52 Garmin	TK
26/11/2023 Myara North H		Marri	Good	900	Boundary 1	422944	6424198	53 Garmin	TK
26/11/2023 Myara North H	abitat	Marri	Good	700	Boundary 1	422903	6424136	55 Garmin	TK
26/11/2023 Myara North H	abitat	Marri	Good	700	Boundary 1	422910	6424163	108 Garmin	TK
26/11/2023 Myara North Ha	abitat	Marri	Good	1000	Boundary 1	422718	6424052	110 Garmin	TK
26/11/2023 Myara North H	abitat	Marri	Good	1200	Boundary 1	422732	6424021	111 Garmin	TK
26/11/2023 Myara North H	abitat	Marri	Good	1000	Boundary 1	422680	6424069	112 Garmin	TK
26/11/2023 Myara North H	abitat	Marri	Good	1200	Boundary 1	422644	6424026	113 Garmin	TK
26/11/2023 Myara North H	abitat	Marri	Good	900	Boundary 1	422635	6424013	114 Garmin	TK
26/11/2023 Myara North H		Marri	Good	1000	Boundary 1	422598	6424012	115 Garmin	TK
26/11/2023 Myara North H			Good	800	Boundary 1	422575	6424024	116 Garmin	TK
26/11/2023 Myara North H			Good	1300	Boundary 1	422503	6423995	117 Garmin	TK
27/11/2023 Myara North H		Marri	Good	1200	Boundary 1	422428	6423894	120 Garmin	TK
27/11/2023 Myara North H		Marri	Good	1000	Boundary 1	422576	6423928	121 Garmin	TK
27/11/2023 Myara North H		Marri	Good	800	Boundary 1	422556	6423933	122 Garmin	TK
27/11/2023 Myara North H			Good	1000	Boundary 1	421873	6423769	123 Garmin	TK
27/11/2023 Myara North H			Good	800	Boundary 1	421862	6423776	124 Garmin	TK
27/11/2023 Myara North H			Good	700	Boundary 1	421862	6423779	125 Garmin	TK
27/11/2023 Myara North H		_	Good	1000	Boundary 1	420554	6423884	126 Garmin	TK
27/11/2023 Myara North Si 27/11/2023 Myara North H	_	Jarrah Marri	Good Good	6350 800	Boundary 1 Boundary 1	420817 420833	6423833 6423828	127 Garmin 128 Garmin	TK TK
27/11/2023 Myara North H		Marri	Good	1100	Boundary 1	420833	6423738	129 Garmin	TK
27/11/2023 Myara North H		Marri Marri	Good	700	Boundary 1	419193	6423150	131 Garmin	TK
27/11/2023 Myara North H			Good	600	Boundary 2	419196	6423148	132 Garmin	TK
27/11/2023 Myara North H			Good	700	Boundary 2	419198	6423125	133 Garmin	TK
27/11/2023 Myara North H		Marri	Good	1200	Boundary 2	419169	6423101	134 Garmin	TK
27/11/2023 Myara North H		Marri	Good	1100	Boundary 2	419226	6423168	136 Garmin	TK
27/11/2023 Myara North H		Marri	Good	1300	Boundary 2	419213	6423180	137 Garmin	TK
27/11/2023 Myara North H		Marri	Good	1200	Boundary 2	419757	6423341	138 Garmin	TK
27/11/2023 Myara North H		Marri	Good	600	Boundary 2	419404	6423037	140 Garmin	TK
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27/11/207	23 Myara North	Habitat	Marri	Good	600	Boundary 2	419385	6423069	141 Garmin	TK
	23 Myara North		Marri	Good	1300	Boundary 2	419357	6423030	142 Garmin	TK
	23 Myara North		Marri	Good	800	Boundary 2	419344	6423011	143 Garmin	TK
27/11/202	23 Myara North	Habitat	Marri	Good	900	Boundary 2	419323	6423013	144 Garmin	TK
27/11/202	23 Myara North	Habitat	Marri	Good	1000	Boundary 2	419299	6423053	146 Garmin	TK
27/11/202	23 Myara North	Habitat	Marri	Good	700	Boundary 2	419302	6423072	147 Garmin	TK
27/11/207	23 Myara North	Habitat	Marri	Good	500	Boundary 2	419299	6423069	148 Garmin	TK
27/11/207	23 Myara North	Habitat	Marri	Good	800	Boundary 2	419288	6423069	149 Garmin	TK
27/11/202	23 Myara North	Habitat	Marri	Good	500	Boundary 2	419268	6423082	150 Garmin	TK
27/11/202	23 Myara North	Habitat	Marri	Good	700	Boundary 2	419327	6423091	152 Garmin	TK
27/11/202	23 Myara North	Habitat	Marri	Good	800	Boundary 2	419608	6423332	153 Garmin	TK
27/11/202	23 Myara North	Habitat	Marri	Good	1000	Boundary 2	419608	6423338	154 Garmin	TK
27/11/202	23 Myara North	Habitat	Marri	Good	900	Boundary 2	419687	6423381	155 Garmin	TK
27/11/202	23 Myara North	Habitat	Marri	Good	1000	Boundary 2	419695	6423401	169 Garmin	TK
	23 Myara North		Marri	Good	800	Boundary 1	419863	6423430	170 Garmin	TK
	23 Myara North		Marri	Good	600	Boundary 1	419922	6423500	171 Garmin	TK
	23 Myara North		Marri	Good	800	Boundary 1	420114	6423609	172 Garmin	TK
	23 Myara North		Marri	Good	1200	Boundary 1	420120	6423620	173 Garmin	TK
	23 Myara North		Marri	Good	600	Boundary 1	420125	6423617	174 Garmin	TK
	23 Myara North		Marri	Good	900	Boundary 1	420186	6423644	175 Garmin	TK
	23 Myara North		Marri	Good	900	Boundary 1	420225	6423640	176 Garmin	TK
	23 Myara North		Marri	Good	800	Boundary 1	420224	6423601	177 Garmin	TK
	23 Myara North		Marri	Good	1000	Boundary 1	420270	6423630	178 Garmin	TK
	23 Myara North		Marri	Good	700	Boundary 1	418581	6422407	180 Garmin	TK
	23 Myara North		Marri	Good	1000	Boundary 2	418580	6422416	181 Garmin	TK
	23 Myara North 23 Myara North		Marri Marri	Good Good	1000 1300	Boundary 2 Boundary 2	418593 418835	6422416 6422667	182 Garmin 184 Garmin	TK TK
	23 Myara North		Marri Marri	Good	800	Boundary 2	418831	6422661	185 Garmin	TK
	23 Myara North		Marri	Good	900	Boundary 2	418848	6422649	186 Garmin	TK
	23 Myara North		Marri	Good	800	Boundary 2	418800	6422607	187 Garmin	TK
	23 Myara North		Marri	Good	1000	Boundary 1	418480	6422417	190 Garmin	TK
	23 Myara North		Marri	Good	1000	Boundary 1	418453	6422272	191 Garmin	TK
	23 Myara North		Marri	Good	900	Boundary 1	418417	6422262	192 Garmin	TK
	23 Myara North		Marri	Good	700	Boundary 1	418462	6422174	193 Garmin	TK
	23 Myara North		Marri	Good	1400	Boundary 1	418459	6422248	194 Garmin	TK
28/11/202	23 Myara North	Habitat	Marri	Good	900	Boundary 1	418439	6422213	195 Garmin	TK
	23 Myara North		Marri	Good	1000	Boundary 1	418384	6422124	196 Garmin	TK
28/11/207	23 Myara North	Habitat	Marri	Good	1000	Boundary 1	418397	6421909	197 Garmin	TK
28/11/202	23 Myara North	Habitat	Marri	Good	1000	Boundary 1	418421	6421870	198 Garmin	TK
28/11/202	23 Myara North	Habitat	Marri	Good	1000	Boundary 1	418467	6421791	199 Garmin	TK
28/11/202	23 Myara North	Habitat	Marri	Good	1100	Boundary 1	418444	6421730	200 Garmin	TK
28/11/202	23 Myara North	Habitat	Marri	Good	1000	Boundary 1	418457	6421737	201 Garmin	TK
28/11/202	23 Myara North	Habitat	Marri	Good	1400	Boundary 1	418676	6421268	202 Garmin	TK
	23 Myara North		Marri	Good	1100	Boundary 1	418659	6421215	203 Garmin	TK
	23 Myara North		Marri	Good	1100	Boundary 1	418656	6421222	204 Garmin	TK
	23 Myara North		Marri	Good	1300	Boundary 1	417764	6419273	207 Garmin	TK
	23 Myara North		Marri	Good	900	Boundary 1	418043	6419387	208 Garmin	TK
	23 Myara North		Marri	Good	1000	Boundary 1	418069	6419426	209 Garmin	TK
	23 Myara North		Marri	Good	1000	Boundary 1	418391	6419635	210 Garmin	TK
	23 Myara North		Marri	Good	1200	Boundary 1	418400	6419663	212 Garmin	TK
	23 Myara North 23 Myara North		Marri	Good	800 700	Boundary 1	418417 418427	6419653 6419660	213 Garmin 214 Garmin	TK
	23 Myara North		Marri Marri	Good Good	800	Boundary 1 Boundary 1	418431	6419658	215 Garmin	TK TK
	23 Myara North		Marri	Good	1200	Boundary 1	418472	6419729	216 Garmin	TK
	23 Myara North		Marri	Good	1200	Boundary 1	418468	6419730	217 Garmin	TK
	23 Myara North		Marri	Good	1000	Boundary 1	418468	6419736	218 Garmin	TK
	23 Myara North		Marri	Good	1000	Boundary 1	418482	6419775	219 Garmin	TK
	23 Myara North		Marri	Good	900	Boundary 1	418486	6419778	220 Garmin	TK
	23 Myara North		Marri	Good	1000	Boundary 1	418506	6419783	221 Garmin	TK
	23 Myara North		Marri	Good	500	Boundary 1	418505	6419831	222 Garmin	TK
	23 Myara North		Marri	Good	1400	Boundary 1	418696	6419992	223 Garmin	TK
28/11/202	23 Iviyara Ivortii									
	23 Myara North	Habitat	Marri	Good	600	Boundary 1	418718	6420016	224 Garmin	TK
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29/11/2023 Myara North Habitat Marri Good 800	29/11/2023 Myara North Habitat	Marri	Good	1100	Boundary 1	417297	6419122	278 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 800 800 800 800 800 800 800 800 800 800 800 800 800 8000 8000 8000 80000 800000 8000000 80000000 80000000 800000000	29/11/2023 Myara North Habitat	Marri	Good	800	Boundary 1	417734	6419126	280 Garmin	TK
29/11/2023 Myara North Habitat Marri Good Good Good Good Boundary 1 41/178 G418406 283 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 41/171 G418407 284 Garmin TK 29/11/2023 Myara North Habitat Marri Good 900 Boundary 1 41/205 G418415 286 Garmin TK 29/11/2023 Myara North Habitat Marri Good 900 Boundary 1 41/205 G418415 286 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 41/205 G418415 286 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 41/205 G418415 286 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 41/205 G418415 288 Garmin TK 29/11/2023 Myara North Habitat Marri Good 500 Boundary 1 41/205 G418415 29/14/2023 Myara North Habitat Marri Good 1000 Boundary 1 41/205 G418616 29/14/2023 Myara North Habitat Marri Good 1000 Boundary 1 41/205 G418801 29/14/2023 Myara North Habitat Marri Good 1000 Boundary 1 41/205 G418801 29/14/2023 Myara North Habitat Marri Good 1000 Boundary 1 41/205 G418809 29/14/2013 Myara North Habitat Marri Good 1000 Boundary 1 41/205 G418715 300 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 41/205 G418715 300 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 41/205 G41871 301 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 41/205 G41870 G41870 300 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 41/205 G41870 G41870 300 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 41/205 G41870 G41870 300 Garmin TK 29/11/2023 Myara North Habitat Marri Good 300 Garmin TK 29/11/2023 Myara North Habitat Marri Good 300 Garmin TK 39/11/2023 Myara North Habitat Marri Good 300 Garmin TK 39/11/2023 M	29/11/2023 Myara North Habitat	Marri	Good	800	Boundary 1	417794	6419109	281 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 1200 Boundary 1 41712 6418407 284 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417105 6418402 285 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417105 6418415 286 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417106 6418417 287 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417106 6418415 286 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417509 6418415 286 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417705 6418815 290 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417705 6418801 293 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417507 6418809 299 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417507 6418809 299 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417507 6418809 299 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417509 6418711 301 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417509 6418711 301 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417509 6418503 302 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417509 6418501 303 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416638 6418500 305 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416638 6418500 305 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416638 6418500 305 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416638 6418500 305 Garmin TK 29/11/2023 Myara North Habitat Marri Good 10	29/11/2023 Myara North Habitat	Marri	Good	800	Boundary 1	417183	6418404	282 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417162 6418402 285 Garmin TK 29/11/2023 Myara North Habitat Marri Good 900 Boundary 1 41705 6418415 286 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417186 6418415 287 Garmin TK 29/11/2023 Myara North Habitat Marri Good 500 Boundary 1 41786 6418415 288 Garmin TK 29/11/2023 Myara North Habitat Marri Good 500 Boundary 1 41786 641875 290 Garmin TK 29/11/2023 Myara North Habitat Marri Good 100 Boundary 1 41779 6418892 295 Garmin TK 29/11/2023 Myara North Habitat Marri Good 600 Boundary 1 41779 6418899 299 Garmin TK 29/11/2023 Myara North Habitat Marri Good	29/11/2023 Myara North Habitat	Marri	Good	600	Boundary 1	417178	6418406	283 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 900 Boundary 1 417205 6418415 286 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417190 6418415 287 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 41759 6418755 290 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417593 6418755 290 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417719 6418801 293 Garmin TK 29/11/2023 Myara North Habitat Marri Good 600 Boundary 1 417597 6418809 299 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417599 6418715 300 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417509 6418715 300 Garmin	29/11/2023 Myara North Habitat	Marri	Good	1200	Boundary 1	417171	6418407	284 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417190 6418417 287 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1100 Boundary 1 417186 6418415 288 Garmin TK 29/11/2023 Myara North Habitat Marri Good 500 Boundary 1 41795 6418875 290 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1100 Boundary 1 417795 6418861 293 Garmin TK 29/11/2023 Myara North Habitat Marri Good 600 Boundary 1 417795 6418861 293 Garmin TK 29/11/2023 Myara North Habitat Marri Good 600 Boundary 1 417509 6418715 300 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417509 6418713 301 Garmin TK 29/11/2023 Myara North Habitat Marri Good <td>29/11/2023 Myara North Habitat</td> <td>Marri</td> <td>Good</td> <td>1000</td> <td>Boundary 1</td> <td>417162</td> <td>6418402</td> <td>285 Garmin</td> <td>TK</td>	29/11/2023 Myara North Habitat	Marri	Good	1000	Boundary 1	417162	6418402	285 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 1100 Boundary 1 417186 6418415 288 Garmin TK 29/11/2023 Myara North Habitat Marri Good 500 Boundary 1 417593 6418755 290 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417709 6418861 293 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1100 Boundary 1 417709 6418892 295 Garmin TK 29/11/2023 Myara North Habitat Marri Good 600 Boundary 1 417507 6418809 299 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417507 6418715 300 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417509 6418711 301 Garmin TK 29/11/2023 Myara North Habitat Marri Good<	29/11/2023 Myara North Habitat	Marri	Good	900	Boundary 1	417205	6418415	286 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 500 Boundary 1 417593 6418755 290 Garmin TK 29/11/2023 Myara North Habitat Marri Good 100 Boundary 1 417705 6418861 293 Garmin TK 29/11/2023 Myara North Habitat Marri Good 100 Boundary 1 41759 6418809 299 Garmin TK 29/11/2023 Myara North Habitat Marri Good 600 Boundary 1 41759 6418809 299 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417599 6418715 300 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417599 6418711 301 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417509 6418711 303 Garmin TK 29/11/2023 Myara North Habitat Marri Good	29/11/2023 Myara North Habitat	Marri	Good	1000	Boundary 1	417190	6418417	287 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417705 6418861 293 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1100 Boundary 1 417719 6418892 295 Garmin TK 29/11/2023 Myara North Habitat Marri Good 600 Boundary 1 417557 6418809 299 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417502 6418715 300 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417502 6418711 301 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417502 6418711 301 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417107 6418847 303 Garmin TK 29/11/2023 Myara North Habitat Marri Good	29/11/2023 Myara North Habitat	Marri	Good	1100	Boundary 1	417186	6418415	288 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 1100 Boundary 1 417719 6418892 295 Garmin TK 29/11/2023 Myara North Habitat Marri Good 600 Boundary 1 417557 6418809 299 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417509 6418715 300 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417509 6418711 301 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417509 6418711 301 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417507 6418803 302 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416714 6418470 304 Garmin TK 29/11/2023 Myara North Habitat Marri Good	29/11/2023 Myara North Habitat	Marri	Good	500	Boundary 1	417593	6418755	290 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 600 Boundary 1 417557 6418809 299 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417509 6418715 300 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417509 6418711 301 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417509 6418503 302 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417107 6418347 303 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 41614 6418470 304 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416638 6418504 312 Garmin TK <	29/11/2023 Myara North Habitat	Marri	Good	1000	Boundary 1	417705	6418861	293 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417509 6418715 300 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417502 6418711 301 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417107 6418347 303 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 41707 6418347 303 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416714 6418470 304 Garmin TK 29/11/2023 Myara North Habitat Marri Good 900 Boundary 1 416638 6418500 305 Garmin TK 29/11/2023 Myara North Habitat Marri Good 800 Boundary 1 416539 6418409 312 Garmin TK </td <td>29/11/2023 Myara North Habitat</td> <td>Marri</td> <td>Good</td> <td>1100</td> <td>Boundary 1</td> <td>417719</td> <td>6418892</td> <td>295 Garmin</td> <td>TK</td>	29/11/2023 Myara North Habitat	Marri	Good	1100	Boundary 1	417719	6418892	295 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417502 6418711 301 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417259 6418503 302 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417107 6418347 303 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416714 6418470 304 Garmin TK 29/11/2023 Myara North Habitat Marri Good 900 Boundary 1 416638 6418500 305 Garmin TK 29/11/2023 Myara North Habitat Marri Good 800 Boundary 1 416538 6418504 306 Garmin TK 29/11/2023 Myara North Habitat Marri Good 800 Boundary 1 416649 6418409 312 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416673 6418406 313 Garmin	29/11/2023 Myara North Habitat	Marri	Good	600	Boundary 1	417557	6418809	299 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417259 6418503 302 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417107 6418347 303 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416714 6418470 304 Garmin TK 29/11/2023 Myara North Habitat Marri Good 900 Boundary 1 416638 6418500 305 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416538 6418534 306 Garmin TK 29/11/2023 Myara North Habitat Marri Good 800 Boundary 1 416649 6418409 312 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416673 6418406 313 Garmin TK <	29/11/2023 Myara North Habitat	Marri	Good	1000	Boundary 1	417509	6418715	300 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417259 6418503 302 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417107 6418347 303 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416714 6418470 304 Garmin TK 29/11/2023 Myara North Habitat Marri Good 900 Boundary 1 416638 6418500 305 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416538 6418534 306 Garmin TK 29/11/2023 Myara North Habitat Marri Good 800 Boundary 1 416649 6418409 312 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416673 6418406 313 Garmin TK <	29/11/2023 Myara North Habitat	Marri	Good	1000	Boundary 1	417502	6418711	301 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 417107 6418347 303 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416714 6418470 304 Garmin TK 29/11/2023 Myara North Habitat Marri Good 900 Boundary 1 416638 6418500 305 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416538 6418534 306 Garmin TK 29/11/2023 Myara North Habitat Marri Good 800 Boundary 1 416649 6418409 312 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416673 6418409 312 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416673 6418406 313 Garmin TK 29/11/2023 Myara North Habitat Marri Good<	29/11/2023 Myara North Habitat	Marri	Good	1000	Boundary 1	417259	6418503	302 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416714 6418470 304 Garmin TK 29/11/2023 Myara North Habitat Marri Good 900 Boundary 1 416638 6418500 305 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416538 6418534 306 Garmin TK 29/11/2023 Myara North Habitat Marri Good 800 Boundary 1 416649 6418409 312 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416673 6418406 313 Garmin TK 29/11/2023 Myara North Habitat Marri Good 600 Boundary 1 415908 6418520 314 Garmin TK		Marri	Good	1000	Boundary 1			303 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 900 Boundary 1 416638 6418500 305 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416538 6418534 306 Garmin TK 29/11/2023 Myara North Habitat Marri Good 800 Boundary 1 416649 6418409 312 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416673 6418406 313 Garmin TK 29/11/2023 Myara North Habitat Marri Good 600 Boundary 1 415908 6418520 314 Garmin TK				1000	Boundary 1		6418470	304 Garmin	TK
29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416538 6418534 306 Garmin TK 29/11/2023 Myara North Habitat Marri Good 800 Boundary 1 416649 6418409 312 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416673 6418406 313 Garmin TK 29/11/2023 Myara North Habitat Marri Good 600 Boundary 1 415908 6418520 314 Garmin TK	•				•		6418500		TK
29/11/2023 Myara North Habitat Marri Good 800 Boundary 1 416649 6418409 312 Garmin TK 29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416673 6418406 313 Garmin TK 29/11/2023 Myara North Habitat Marri Good 600 Boundary 1 415908 6418520 314 Garmin TK	•				•				TK
29/11/2023 Myara North Habitat Marri Good 1000 Boundary 1 416673 6418406 313 Garmin TK 29/11/2023 Myara North Habitat Marri Good 600 Boundary 1 415908 6418520 314 Garmin TK	•				•				
29/11/2023 Myara North Habitat Marri Good 600 Boundary 1 415908 6418520 314 Garmin TK	•				•				
	•				•				TK
	•		Good	900	•			315 Garmin	TK

29/11/2023 Myara North Habitat	Marri	Good		1200	Boundary 1	416379	6418404	316 Garmin	TK
29/11/2023 Myara North Habitat	Blackbutt	Good		1100	Boundary 1	416390	6418425	317 Garmin	TK
29/11/2023 Myara North Habitat	Blackbutt	Good		1500	Boundary 1	416408	6418431	319 Garmin	TK
29/11/2023 Myara North Habitat	Blackbutt	Good		1700	Boundary 1	416391	6418448	320 Garmin	TK
30/11/2023 Myara North Habitat	Marri	Good		600	Boundary 1	416284	6418540	321 Garmin	TK
30/11/2023 Myara North Habitat	Marri	Good		500	Boundary 1	416285	6418542	325 Garmin	TK
30/11/2023 Myara North Habitat	Marri	Good		900	Boundary 1	416288	6418543	326 Garmin	TK
30/11/2023 Myara North Habitat	Marri	Good		1200	Boundary 1	416225	6418605	327 Garmin	TK
30/11/2023 Myara North Habitat	Marri	Good		800	Boundary 1	415978	6418635	328 Garmin	TK
30/11/2023 Myara North Habitat	Marri	Good		500	Boundary 1	415971	6418620	329 Garmin	TK
30/11/2023 Myara North Habitat	Marri	Good		1300	Boundary 1	415869	6418573	332 Garmin	TK
30/11/2023 Myara North Habitat	Marri	Good		900	Boundary 1	415836	6418534	334 Garmin	TK
30/11/2023 Myara North Habitat	Marri	Good		900	Boundary 1	415838	6418523	335 Garmin	TK
30/11/2023 Myara North Habitat	Marri	Good		700	Boundary 1	415806	6418453	336 Garmin	TK
30/11/2023 Myara North Habitat	Marri	Good		800	Boundary 1	415806	6418413	337 Garmin	TK
30/11/2023 Myara North Habitat	Marri	Good		1000	Boundary 1	415819	6418347	338 Garmin	TK
30/11/2023 Myara North Habitat	Marri	Good		1100	Boundary 1	415185	6417024	339 Garmin	TK
30/11/2023 Myara North Habitat	Marri	Good		1200	Boundary 1	415186	6417227	340 Garmin	TK
30/11/2023 Myara North Habitat	Marri	Good		1200	Boundary 1	415107	6417341	341 Garmin	TK
30/11/2023 Myara North Habitat	Marri	Good		1400	Boundary 1	415272	6416962	342 Garmin	TK
7/12/2023 Myara North Habitat	Marri	Good Good		1000	Boundary 1	416348 416093	6415799 6415798	654 Garmin 655 Garmin	TK TK
7/12/2023 Myara North Habitat 7/12/2023 Myara North Habitat	Marri Marri	Good		600 500	Boundary 1 Boundary 1	416093	6415800	656 Garmin	TK
11/12/2023 Myara North Habitat	Blackbutt	Good		800	PW alignment	421585	6418714	660 Garmin	TK
11/12/2023 Myara North Habitat	Blackbutt	Good		800	PW alignment	421593	6418786	662 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		500	PW alignment	421593	6418792	663 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		800	PW alignment	421654	6419317	667 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		500	PW alignment	421651	6419307	668 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		700	PW alignment	421652	6419276	669 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		700	PW alignment	423106	6417260	671 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		1300	PW alignment	423099	6417248	672 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		1300	PW alignment	423037	6417305	675 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		1000	PW alignment	422945	6417275	676 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		1200	PW alignment	422845	6417366	677 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		800	PW alignment	422843	6417377	678 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		1000	PW alignment	422695	6417511	679 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		600	PW alignment	422693	6417528	680 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		1000	PW alignment	422677	6417552	681 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		600	PW alignment	422664	6417553	683 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		500	PW alignment	422634	6417547	684 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		1000	PW alignment	422613	6417575	686 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		600	PW alignment	422635	6417514	687 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		900	PW alignment	422633	6417520	688 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		1200	PW alignment	422837	6417285	689 Garmin	TK
11/12/2023 Myara North Habitat	Marri	Good		1200	PW alignment	422847	6417299	690 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good		1400	Boundary 1	429910	6409554	1280 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good		600	Boundary 1	429860	6409587	1281 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good		900	Boundary 1	429860	6409560	1282 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good		1000	Boundary 1	429814	6409568	1283 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good		1100	Boundary 1	429798	6409570	1284 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good		1000	Boundary 1	429740	6409568	1285 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good		1500	Boundary 1	429748	6409595	1286 Garmin	TK
9/01/2024 Myara North Habitat	Flooded Gum	Good		600	Boundary 1	429107	6408877	1586 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good		600	Boundary 1	429111	6408884	1587 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good		700	Boundary 1	429115	6408894	1588 Garmin 1589 Garmin	TK TK
9/01/2024 Myara North Habitat 9/01/2024 Myara North Habitat	Blackbutt Blackbutt	Good	1000. 900	1000	Boundary 1 Boundary 1	429136 429172	6408892 6408928	1589 Garmin 1590 Garmin	TK TK
9/01/2024 Myara North Habitat 9/01/2024 Myara North Habitat	Blackbutt	Good Good		1000	Boundary 1	429172 429191	6408942	1591 Garmin 1591 Garmin	TK
9/01/2024 Myara North Habitat	Marri	Good		1100	Boundary 1	429191	6408956	1592 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good		900	Boundary 1	429205	6408965	1593 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good		1000	Boundary 1	429209	6408981	1594 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good		800	Boundary 1	429191	6408987	1595 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good		1000	Boundary 1	429197	6408995	1596 Garmin	TK
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9/01/2024 Myara North	Habitat	Blackbutt	Good	1000	Boundary 1	429200	6409007	1597 Garmin	TK
9/01/2024 Myara North		Blackbutt	Good ?		Boundary 1	429250	6409081	1598 Garmin	TK
9/01/2024 Myara North	Habitat	Blackbutt	Good	700	Boundary 1	429215	6409073	1599 Garmin	TK
9/01/2024 Myara North	Habitat	Blackbutt	Good	1500	Boundary 1	429229	6409085	1600 Garmin	TK
9/01/2024 Myara North	Habitat	Marri	Good	800	Boundary 1	429239	6409086	1601 Garmin	TK
9/01/2024 Myara North	Habitat	Blackbutt	Good	800	Boundary 1	429245	6409060	1602 Garmin	TK
9/01/2024 Myara North	Habitat	Blackbutt	Good	1000	Boundary 1	429232	6409102	1603 Garmin	TK
9/01/2024 Myara North	Habitat	Blackbutt	Good	900	Boundary 1	429223	6409101	1604 Garmin	TK
9/01/2024 Myara North	Habitat	Marri	Good	1000	Boundary 1	429240	6409119	1605 Garmin	TK
10/01/2024 Myara North	Habitat	Blackbutt	Good	800	Boundary 1	429241	6409118	1606 Garmin	TK
10/01/2024 Myara North	Habitat	Blackbutt	Good	900	Boundary 1	429243	6409128	1607 Garmin	TK
10/01/2024 Myara North	Habitat		Good	1100	Boundary 1	429204	6409159	1608 Garmin	TK
10/01/2024 Myara North			Good	900	Boundary 1	429207	6409179	1609 Garmin	TK
10/01/2024 Myara North		Flooded Gum		1000	Boundary 1	429204	6409228	1610 Garmin	TK
10/01/2024 Myara North		Flooded Gum		600	Boundary 1	429185	6409194	1611 Garmin	TK
10/01/2024 Myara North		Flooded Gum		600	Boundary 1	429192	6409205	1612 Garmin	TK
10/01/2024 Myara North			Good	1000	Boundary 1	429168	6409249	1613 Garmin	TK
10/01/2024 Myara North		Flooded Gum Flooded Gum		800	Boundary 1	429170	6409268	1614 Garmin	TK
10/01/2024 Myara North 10/01/2024 Myara North		Flooded Gum		700 700	Boundary 1 Boundary 1	429169 429180	6409267 6409266	1615 Garmin 1616 Garmin	TK TK
10/01/2024 Myara North		Flooded Gum		700	Boundary 1	429179	6409290	1617 Garmin	TK
10/01/2024 Myara North			Good	1000	Boundary 1	429208	6409343	1618 Garmin	TK
10/01/2024 Myara North			Good	800	Boundary 1	429218	6409351	1619 Garmin	TK
10/01/2024 Myara North			Good	1300	Boundary 1	429238	6409355	1620 Garmin	TK
10/01/2024 Myara North			Good	1000	Boundary 1	429221	6409351	1621 Garmin	TK
10/01/2024 Myara North			Good	1000	Boundary 1	429221	6409352	1622 Garmin	TK
10/01/2024 Myara North			Good	1000	Boundary 1	429248	6409367	1623 Garmin	TK
10/01/2024 Myara North			Good	1300	Boundary 1	429284	6409359	1624 Garmin	TK
10/01/2024 Myara North	Habitat	Blackbutt	Good	1100	Boundary 1	429272	6409389	1625 Garmin	TK
10/01/2024 Myara North	Habitat	Blackbutt	Good	900	Boundary 1	429303	6409397	1626 Garmin	TK
10/01/2024 Myara North	Habitat	Blackbutt	Good	1000	Boundary 1	429284	6409408	1627 Garmin	TK
10/01/2024 Myara North		Blackbutt	Good	1400	Boundary 1	429272	6409388	1628 Garmin	TK
10/01/2024 Myara North		Blackbutt	Good	1000	Boundary 1	429317	6409437	1629 Garmin	TK
10/01/2024 Myara North			Good	1000	Boundary 1	429356	6409521	1630 Garmin	TK
10/01/2024 Myara North			Good	800	Boundary 1	429409	6409488	1631 Garmin	TK
10/01/2024 Myara North		Blackbutt	Good	700	Boundary 1	429422	6409483	1632 Garmin	TK
10/01/2024 Myara North			Good	1300	Boundary 1	429448	6409495	1633 Garmin	TK
10/01/2024 Myara North			Good	900	Boundary 1	429448	6409505	1634 Garmin	TK
10/01/2024 Myara North		Blackbutt	Good	1200	Boundary 1	429457	6409551	1635 Garmin	TK
10/01/2024 Myara North 10/01/2024 Myara North		Blackbutt Blackbutt	Good Good	900 1200	Boundary 1 Boundary 1	429472 429485	6409508 6409531	1636 Garmin 1637 Garmin	TK TK
10/01/2024 Myara North		Blackbutt	Good	700	Boundary 1	429463	6409529	1638 Garmin	TK
10/01/2024 Myara North		Blackbutt	Good	1400	Boundary 1	429525	6409526	1639 Garmin	TK
10/01/2024 Myara North			Good	1100	Boundary 1	429528	6409554	1640 Garmin	TK
10/01/2024 Myara North			Good	900	Boundary 1	430005	6409595	1641 Garmin	TK
10/01/2024 Myara North			Good	600	Boundary 1	430004	6409590	1642 Garmin	TK
10/01/2024 Myara North			Good	1500	Boundary 1	429972	6409558	1643 Garmin	TK
10/01/2024 Myara North	Habitat	Blackbutt	Good	1400	Boundary 1	429969	6409588	1644 Garmin	TK
10/01/2024 Myara North	Habitat	Blackbutt	Good	600	Boundary 1	429958	6409578	1645 Garmin	TK
10/01/2024 Myara North	Habitat	Blackbutt	Good	1500	Boundary 1	429929	6409567	1646 Garmin	TK
10/01/2024 Myara North	Habitat	Blackbutt	Good	1400	Boundary 1	429915	6409568	1647 Garmin	TK
10/01/2024 Myara North	Habitat	Blackbutt	Good	600	Boundary 1	429739	6409610	1648 Garmin	TK
10/01/2024 Myara North	Habitat	Blackbutt	Good	600	Boundary 1	429722	6409605	1649 Garmin	TK
10/01/2024 Myara North			Good	800	Boundary 1	429703	6409621	1650 Garmin	TK
10/01/2024 Myara North			Good	800	Boundary 1	429707	6409636	1651 Garmin	TK
10/01/2024 Myara North		Blackbutt	Good	600	Boundary 1	429707	6409605	1652 Garmin	TK
10/01/2024 Myara North			Good	1200	Boundary 1	429756	6409622	1653 Garmin	TK
10/01/2024 Myara North			Good	1800	Boundary 1	429772	6409611	1654 Garmin	TK
10/01/2024 Myara North			Good	1100	Boundary 1	429796	6409620	1656 Garmin	TK TV
10/01/2024 Myara North 10/01/2024 Myara North		Marri Blackbutt	Good Good	1000 1300	Boundary 1	429794 429811	6409626 6409609	1657 Garmin 1658 Garmin	TK TK
10/01/2024 Myara North			Good	1100	Boundary 1 Boundary 1	429811	6409598	1659 Garmin	TK
10/01/2024 Myara North		Blackbutt	Good	1800	Boundary 1	429819	6409589	1660 Garmin	TK
20/02/2027 IVIYUIU NOILII	··acitat	Diagnoutt	5504		20011001 7 1	.23030	2.03303	2000 00	

10/01/2024 Myara North Habitat	Blackbutt	Good 1000. 900		Boundary 1	429842	6409613	1661 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	1000	Boundary 1	429823	6409613	1662 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	1000	Boundary 1	429829	6409637	1663 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	1200	Boundary 1	429848	6409624	1664 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	1000	Boundary 1	429880	6409631	1665 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	800	Boundary 1	429882	6409642	1666 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	1000	Boundary 1	429903	6409615	1667 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	600	Boundary 1	429905	6409621	1668 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	700	Boundary 1	429918	6409625	1669 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	1500	Boundary 1	429932	6409614	1670 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	1000	Boundary 1	429964	6409630	1671 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	900	Boundary 1	429963	6409629	1672 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	1800	Boundary 1	429994	6409534	1673 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	1500	Boundary 1	430005	6409515	1674 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	1100	Boundary 1	430044	6409509	1675 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good Good	1000 1000	Boundary 1	430048 430071	6409498 6409510	1676 Garmin 1677 Garmin	TK TK
10/01/2024 Myara North Habitat	Blackbutt	Good		Boundary 1		6409521	1678 Garmin	TK
10/01/2024 Myara North Habitat 10/01/2024 Myara North Habitat	Blackbutt Blackbutt	Good	1100 800	Boundary 1 Boundary 1	430109 430093	6409529	1679 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	1100	Boundary 1	430033	6409530	1680 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	1000	Boundary 1	430132	6409550	1681 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	600	Boundary 1	430463	6409597	1682 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	600	Boundary 1	430502	6409709	1683 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	900	Boundary 1	430502	6409734	1684 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	1200	Boundary 1	430588	6409863	1685 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	800	Boundary 1	430590	6409856	1686 Garmin	TK
10/01/2024 Myara North Habitat	Blackbutt	Good	1000	Boundary 1	430628	6409856	1687 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good	1200	Boundary 1	429526	6409681	1248 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good	700	Boundary 1	429529	6409657	1249 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good	600	Boundary 1	429532	6409650	1250 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good	600	Boundary 1	429529	6409615	1251 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good	1200	Boundary 1	429531	6409613	1252 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good	1000	Boundary 1	429540	6409627	1253 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good	1000	Boundary 1	429545	6409635	1259 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good	1200	Boundary 1	429554	6409657	1260 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good	1000	Boundary 1	429562	6409687	1261 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good	1200	Boundary 1	429583	6409691	1263 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good	1100	Boundary 1	429592	6409691	1264 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good	700	Boundary 1	429609	6409676	1265 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good	1100	Boundary 1	429614	6409669	1266 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good	800	Boundary 1	429645	6409665	1267 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good	800	Boundary 1	429647	6409667	1268 Garmin	TK
9/01/2024 Myara North Habitat	Blackbutt	Good	1000	Boundary 1	429660	6409663	1269 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	800	Boundary 1	430077	6414872	1173 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	600	Boundary 2	430078	6414860	1174 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	1400	Boundary 2	430028	6415054	1175 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	900	Boundary 2	430023	6415170	1176 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	600	Boundary 2	430031	6415193	1177 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	600	Boundary 2	430025	6415195	1178 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	1100	Boundary 2	430031	6415219	1179 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	1000	Boundary 2	430031	6415217	1180 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	900	Boundary 2	430029	6415243	1181 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	500	Boundary 2	430024	6415245	1182 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	700	Boundary 2	430024	6415259	1183 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	800	Boundary 2	430007	6415294	1184 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	600	Boundary 2	429991	6415328	1185 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	600	Boundary 2	429964	6415359	1186 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	600	Boundary 2	429967	6415362	1187 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	1100 1000	Boundary 2	429951 429762	6415362 6415483	1188 Garmin 1189 Garmin	TK TK
8/01/2024 Myara North Habitat 8/01/2024 Myara North Habitat	Marri Marri	Good Good	800	Boundary 2 Boundary 2	429762	6415483 6415487	1199 Garmin 1190 Garmin	TK
8/01/2024 Myara North Habitat	Marri Marri	Good	500	Boundary 2 Boundary 2	429739	6416007	1190 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	600	Boundary 2 Boundary 2	429260	6416007	1191 Garmin	TK
0/01/2027 IVIYATA INOTUT HADILAL	iviaiii	3000	000	boullually 2	743404	0-10020	1192 Garrini	i K

8/01/2024 Myara North Habitat	Marri	Good	700		Boundary 2	429279	6416019	1193 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	500		Boundary 2	429286	6416024	1194 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	1000		Boundary 2	429276	6416040	1195 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	900		Boundary 2	429253	6416069	1197 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	500		Boundary 2	429252	6416065	1198 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	600		Boundary 2	429185	6416224	1200 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	900		Boundary 2	429177	6416246	1201 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	800		Boundary 2	428522	6418236	1205 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	1000		Boundary 1	428511	6418234	1206 Garmin	TK
8/01/2024 Myara North Habitat	Marri	Good	1100		Boundary 1	428708	6417975	1207 Garmin	TK
17/11/2023 Myara North Habitat	Blackbutt	Good	1000	No signs Yes	Boundary 1	430392	6409628	1451 Garmin	TK
27/11/2023 Myara North Habitat	Marri	Good	1000	No signs Yes	Boundary 1	421564	6423725	130 Garmin	TK
26/11/2023 Myara North Habitat	Marri	Good	1300	No signs Yes	Boundary 1	422758	6424091	109 Garmin	TK
28/11/2023 Myara North Habitat	Marri	Good	1000	No signs Yes	Boundary 1	417722	6419306	206 Garmin	TK
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14/11/2023 Myara North Possible nest	Marri	Good	900 Side entry	No signs	PW alignment	419943	6421489	1351 Garmin	TK
14/11/2023 Myara North Possible nest	Marri	Good	1000 Side entry	No signs	PW alignment	415391	6420188	1387 Garmin	TK
14/11/2023 Myara North Possible nest	Marri	Good	1000 Side entry	No signs	PW alignment	417026	6419181	1397 Garmin	TK
21/11/2023 Myara North Possible nest	Marri	Good	1000 Side entry	No signs	Boundary 1	430534	6413039	1578 Garmin	TK
21/11/2023 Myara North Possible nest	Marri	Good	800 Side entry	No signs	Boundary 1	430510	6413035	1579 Garmin	TK
26/11/2023 Myara North Nest	Marri	Good. Sen 4	1028 Top entry	Chewing at entrance	2024 Boundary 1	422899	6424130	107 Garmin	TK
26/11/2023 Myara North Possible nest	Marri	Good	1200 Side entry	No signs	Boundary 1	422241	6423881	118 Garmin	TK
27/11/2023 Myara North Possible nest	Marri	Good	1000 Side entry	No signs	Boundary 2	419775	6423350	139 Garmin	TK
28/11/2023 Myara North Possible nest	Marri	Dead	700 Top entry	No signs	Boundary 2	418530	6422329	179 Garmin	TK
28/11/2023 Myara North Possible nest	Marri	Good	1000 Top entry	No signs	Boundary 1	418940	6422644	183 Garmin	TK
28/11/2023 Myara North Nest	Marri	Good. Sen 3	1206 Side entry	Chewing at entrance	2022 Boundary 1	418618	6422472	189 Garmin	TK
28/11/2023 Myara North Nest	Marri	Good	1311 Side entry	Chewing at entrance	2047 Boundary 1	418776	6421250	205 Garmin	TK
28/11/2023 Myara North Nest	Marri	Good. Sen 4	920 Top entry	Chewing at entrance	2066 Boundary 1	418799	6420446	227 Garmin	TK
28/11/2023 Myara North Possible nest	Marri	Good	1000 Side entry	No signs	Boundary 1	418183	6419533	250 Garmin	TK
28/11/2023 Myara North Nest	Bullich	Good	735 Side entry	Chewing at entrance	2018 Boundary 1	417001	6419671	258 Garmin	TK
28/11/2023 Myara North Nest	Bullich	Good	767 Side entry	Chewing at entrance	2074 Boundary 1	417004	6419670	259 Garmin	TK
29/11/2023 Myara North Possible nest	Marri	Good	1500 Top entry	No signs	Boundary 1	417194	6418456	289 Garmin	TK
29/11/2023 Myara North Possible nest	Marri	Good	1100 Top entry	No signs	Boundary 1	417599	6418755	291 Garmin	TK
•						417707	6418826	292 Garmin	
29/11/2023 Myara North Possible nest	Marri	Good	1200 Top entry	No signs	Boundary 1				TK
29/11/2023 Myara North Possible nest	Marri	Good Son 4	1000 Top entry	No signs	Boundary 1	417711	6418886	294 Garmin	TK
29/11/2023 Myara North Nest	Marri	Good. Sen 4	983 Side entry	Chewing at entrance	2046 Boundary 1	417863	6418982	296 Garmin	TK
29/11/2023 Myara North Nest	Marri	Good. Sen 4	1213 Top entry	Chewing at entrance	2048 Boundary 1	417857	6419024	297 Garmin	TK
29/11/2023 Myara North Possible nest	Marri	Good	1200 Side entry	No signs	Boundary 1	417681	6418954	298 Garmin	TK
29/11/2023 Myara North Nest	Marri	Good. Sen 3	1279 Side entry	Chewing at entrance	2010 Boundary 1	416392	6418485	308 Garmin	TK
29/11/2023 Myara North Possible nest	Marri	Good	1300 Side entry	No signs	Boundary 1	416499	6418461	310 Garmin	TK
30/11/2023 Myara North Nest	Marri	Good. Sen 4	970 Side entry	Chewing at entrance	2017 Boundary 1	415877	6418611	331 Garmin	TK
11/12/2023 Myara North Possible nest	Marri	Good	900 Top entry	No signs	PW alignment	421859	6419499	665 Garmin	TK
11/12/2023 Myara North Nest	Marri	Good. Sen 4	948 Top entry	Chewing at entrance	2013 PW alignment	422671	6417553	682 Garmin	TK
8/01/2024 Myara North Possible nest	Marri	Good	1000 Top entry	No signs	Boundary 1	429274	6416041	1196 Garmin	TK
8/01/2024 Myara North Nest	Marri	Good. Sen 7	751 Top entry	Chewing at entrance	2110 Boundary 1	429248	6416125	1199 Garmin	TK
8/01/2024 Myara North Possible nest	Marri	Good	1100 Top entry	No signs	Boundary 1	429104	6416389	1202 Garmin	TK
8/01/2024 Myara North Possible nest	Marri	Good	600 Top entry	No signs	Boundary 1	429081	6416930	1204 Garmin	TK
13/11/2023 Myara North Nest	Marri	Good. Sen 2	716 Top entry	Chewing at entrance	2026 Boundry 2	419217	6422722	1326 Garmin	TK
14/11/2023 Myara North Nest	Marri	Good	1069 Top entry	Chewing at entrance	2208 PW alignment	421743	6419390	1346 Garmin	TK
14/11/2023 Myara North Nest	Marri	Good. Sen 4	831 Top entry	Chewing at entrance	2021 PW alignment	419454	6422099	1356 Garmin	TK
14/11/2023 Myara North Nest	Marri	Good. Sen 4	570 Top entry	Chewing at entrance	2060 PW alignment	419377	6422267	1359 Garmin	TK
14/11/2023 Myara North Nest	Marri	Good. Sen 7	538 Top entry	Chewing at entrance	2062 PW alignment	415392	6420188	1386 Garmin	TK
15/11/2023 Myara North Possible nest	Marri	Good	700 Side entry	No signs	PW alignment	418761	6416943	1410 Garmin	TK
15/11/2023 Myara North Possible nest	Marri	Good	700 Side entry	No signs	PW alignment	417838	6415643	1414 Garmin	TK
15/11/2023 Myara North Possible nest	Marri	Dead	1000 Top entry	No signs	PW alignment	417890	6415649	1416 Garmin	TK
15/11/2023 Myara North Possible nest			900 Side entry		PW alignment	417890	6416455	1425 Garmin	
•	Marri	Good		No signs					TK
17/11/2023 Myara North Possible nest	Marri	Good	1000 Side entry	No signs	Boundary 1	430452	6412646	1489 Garmin	TK
20/12/2023 Myara North Nest	Marri	Poor. Sen 8	1069 Side entry	Chewing at entrance	2042 PW alignment Pair of Car	412783	6421438	1496 Garmin	TK
20/11/2023 Myara North Possible nest	Marri	Good	1400 Side entry	No signs	PW alignment	414561	6420291	1508 Garmin	TK
20/11/2023 Myara North Possible nest	Marri	Good	1200 Side entry	No signs	PW alignment	414728	6420341	1510 Garmin	TK
20/11/2023 Myara North Nest	Marri	Good. Sen 5	1725 Side entry	Chewing at entrance	2041 PW alignment	414780	6420353	1512 Garmin	TK
20/11/2023 Myara North Nest	Marri	Good. Sen 4	862 Side entry	Chewing at entrance	2045 Boundary 2	426861	6421183	1534 Garmin	TK
21/11/2023 Myara North Nest	Marri	Good. Sen 2	862 Side entry	Chewing at entrance	2040 Boundary 1	430531	6413001	1577 Garmin	TK
10/01/2024 Myara North Nest	Blackbutt	Good. Sen 2	1069 Top and side	Chewing at entrance	2112 Boundary 1	429157	6417077	1688 Garmin	TK

14/11/2023 Myara North Significant tree Bl	lackbutt	Good	2050		PW alignment	421846	6419852	1348 Garmin	TK
28/11/2023 Myara North Significant tree Bl	lackbutt	Good	2050		Boundary 1	418618	6420028	244 Garmin	TK
29/11/2023 Myara North Significant tree Bl	lackbutt	Good	2050		Boundary 1	417274	6419204	274 Garmin	TK
29/11/2023 Myara North Significant tree M	⁄larri	Good	1925		Boundary 1	416462	6418451	309 Garmin	TK
20/11/2023 Myara North Significant tree M	⁄larri	Good	1600		Boundary 2	425528	6423779	1544 Garmin	TK
20/11/2023 Myara North Habitat M	⁄larri	Good	1200		Boundary 2	425502	6423812	1545 Garmin	TK
28/11/2023 Myara North Nest M	⁄larri	Good. Sen 5	808 Top entry	Old chewing at entrance	2028 PW alignment	418701	6422537	188 Garmin	TK