MERIDIAN BUSINESS PARK INDUSTRIAL DEVELOPMENT, NEERABUP

COMPLIANCE REPORT 2024-2025
EPBC 2007/3479

Prepared for:	City of Wanneroo
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pgv ENVIRONMENTAL

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Declaration of Accuracy

In making this declaration, I am aware that sections 490 and 491 of the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed _____

Full name (please print) _____

Position (please print) _____

Organisation (please print including ABN/ACN if applicable):

City of Wanneroo

ABN: 64 295 981 165

Date _____/_____/_____

1 INTRODUCTION

The Meridian Business Park Industrial Development, Neerabup is an area zoned for industrial development in the City of Wanneroo.

The Meridian Business Park Industrial Development contains Matters of National Environmental Significance so the proposed development was referred under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The proposal was assessed as a Controlled Action (EPBC 2007/3479) and was approved on 2 June 2014 with conditions (Appendix 1).

The following variations to the original approval have been undertaken by the Proponent:

- An amendment to the definition of the action was approved on 02 June 2014 (Appendix 2);
- A second request to vary Conditions 3 and 4 was approved on 17 June 2016 (Appendix 3);
- A third request to vary Schedule 1 and 2 was approved on 10 November 2016 (Appendix 4); and
- Aa fourth request for changes to Conditions 1 and 3, Schedules 1 and 2 and the addition of Schedule 3 was approved on 22 June 2019 (Appendix 5).

Condition 7 of the EPBC approval requires the City of Wanneroo to publish an annual compliance report. Specifically, Condition 7 states:

> *Within three (3) months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of the management plans as specified in the conditions. Documentary evidence providing proof of the date of publication must be provided to the Department at the same time as the compliance report is published. Non-compliance with any of the conditions of the approval must also be reported to the Department within 2 business days of becoming aware of the non-compliance*

This Compliance Report has been prepared by PGV Environmental on behalf of the City of Wanneroo in accordance with Condition 7 of the EPBC approval.

2 DESCRIPTION OF ACTIVITIES

2.1 Project Details

EPBC number:	2007/3479
Project name:	Meridian Business Park Industrial Development, Neerabup
Approval holder:	City of Wanneroo
ABN:	64 295 981 165
Approved action:	Resource Extraction and Industrial Development
Location of the project:	City of Wanneroo
Responsible Person:	Nishant Patel
Reporting period:	19 July 2024 to 19 July 2025
Date of preparation:	10 October 2025

2.2 Current Status

2.2.1 Vegetation Clearing

Clearing for the Extractive Industry in accordance with the approved Action commenced on 10 June 2021 in the area designated as Stage 1 in the Management Plan. The areas cleared under EPBC 2007/3479 for each reporting period can be seen in Plates 1, 2 and 3 for each reporting period can be seen in Plates 1, 2 and 3 by comparing the aerial photographs from October 2020, February 2023, February 2024 and . The area cleared for each reporting period are also shown on Figure 1. There was no clearing undertaken in the 2023-2024 or 2024-2025 compliance periods.

Plate 1: Aerial Prior to Commencement (Landgate, 2025)



Plate 2: Clearing Footprint in 2023 (Landgate, 2025)



Plate 3: Clearing Footprint in 2025 (Landgate, 2025)



A total of 78.3ha has been cleared since commencement (Figure 1).

2.2.2 Construction Activities

Access roads have been established with crushed limestone and the temporary site office has been installed on the site.

2.2.3 Extraction

Extraction operations commenced initially in Stage 3 and have extended into Stage 2 (Plate 3). Contouring to final levels in Stage 2 continued in 2024-2025, including the management and redistribution of topsoil stockpiles.

Extraction is now proposed to be focussed on the south-eastern part to accommodate future Industrial planning.

3 COMPLIANCE

3.1 Condition 1

The person taking the action must not clear more than 130.7 hectares (ha) of foraging habitat for the Carnaby's Black Cockatoo (Calyptorhynchus latirostris) from the proposal site. This clearing may only be undertaken if the management plans required under conditions 2 and 3 have been approved by the Minister.

Currently 78.3ha have been cleared from the site. The Action is in compliance with Condition 1.

3.2 Condition 2

To mitigate impacts to Carnaby's Black Cockatoos, prior to the commencement of the action, the person taking the action must prepare and submit a Construction Environmental Management Plan (CEMP) to the Minister for approval. The CEMP must be submitted at least 3 months prior to commencement of the action.

The CEMP must include, but not be limited to:

a) *avoidance and mitigation measures to prevent impacts to black cockatoos following the commencement of the action;*
b) *measures to physically delineate areas that will be within the Conservation Area;*
c) *management measures to control site access, weeds, Phytophthora dieback, erosion and dust;*
d) *details of monitoring, reporting and contingency measures if performance indicators are not met;*
e) *timeframes for the implementation of the above measures; and*
f) *descriptions of the roles and responsibilities of personnel associated with implementing each of the above measures.*

If the Minister approves the CEMP the approved CEMP must be implemented.

The Construction Environmental Management Plan (CEMP) was approved by the Minister on 16 June 2017 and an updated plan approved on 3 July 2020. The initial plan approval was reported in 2018-2019 Compliance report and the approval of updated version reported in EPBC Compliance Report 2019-2020. No further changes are required in the 2024-2025 reporting period. The CEMP will be reviewed in the first half of 2026 and updated if required.

The CEMP is being implemented as detailed in Section 5 of this report.

3.3 Condition 3

To mitigate impacts to Carnaby's Black Cockatoos, prior to the commencement of the action. the person taking the action must prepare and submit a Conservation Area Management Plan (CAMP) to the Minister for approval. The CAMP must be submitted at least 3 months prior to

commencement of the action. The CAMP must include management details for the Conservation Area and the Mary Street Site. These details must include:

a) zoning and tenure arrangements;
b) objectives, targets and completion criteria for revegetation programs to increase black cockatoo foraging habitat at the Mary Street Site;
c) fencing and access management;
d) management measures to control weeds, Phytophthora dieback, erosion and dust;
e) timeframes and implementation of the above measures; and
f) descriptions of the roles and responsibilities of personnel associated with implementing each of the above measures.

If the Minister approves the CAMP, the approved CAMP must be implemented.

The CAMP was approved by the Minister on 16 June 2017 and an updated plan approved on 3 July 2020. The initial plan approval was reported in 2018-2019 Compliance Report and the approval of the updated version reported in EPBC Compliance Report 2019-2020. No further changes were required in the 2023-2024 or 2024-2025 reporting period. The CAMP will be reviewed in the first half of 2025 and updated if required.

The CAMP is being implemented as detailed in Section 5 of this report.

3.4 Condition 4

To offset the loss of Carnaby's Black Cockatoos foraging habitat, the person taking the action must:

a) Prior to commencement of the action, provide the Department with written evidence that funds have been provided to the Western Australian Department of Parks and Wildlife (DPaW) for the acquisition of a 492 ha offset property in the vicinity of Gingin, Western Australia.
b) Provide a textual description and map clearly defining the location and boundaries of the offset property and be accompanied with the offset attributes and shapefiles.
c) If at any time the person taking the action is advised that the offset property cannot be acquired, the person taking the action must advise the Department in writing of the situation and advise of steps being taken to provide for an acceptable alternative offset.

The requirements under Condition 4 have been completed as reported in the 2018-2019 Compliance report.

3.5 Condition 5

Within 30 days after the commencement of the action, the person taking the action must advise the Department in writing of the actual date of commencement.

The date of commencement was 19 July 2017 and notification was sent as required under Condition 5 as reported in the 2018-2019 Compliance report.

3.6 Condition 6

> *The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the management plans required by this approval, and make them available upon request to the Department. Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website. The results of audits may also be publicised through the general media.*

All documentation is appropriately managed. There was no requirement for an audit in the 2024-2025 reporting period.

3.7 Condition 7

> *Within three (3) months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of the management plans as specified in the conditions. Documentary evidence providing proof of the date of publication must be provided to the Department at the same time as the compliance report is published. Non-compliance with any of the conditions of the approval must also be reported to the Department within 2 business days of becoming aware of the non-compliance*

The Compliance Report has been prepared to satisfy Condition 7. The Compliance Report is available at https://www.wanneroo.wa.gov.au/downloads/20041/environment.

3.8 Condition 8

> *If the person taking the action wishes to carry out any activity otherwise than in accordance with the management plans as specified in the conditions, the person taking the action must submit to the Department for the Minister's written approval a revised version of the management plans. The varied activity shall not commence until the Minister has approved the varied management plans in writing. The Minister will not approve the varied management plans unless the revised management plans would result in an equivalent or improved environmental outcome over time. If the Minister approves the revised management plans, the management plans must be implemented in place of the management plans originally approved.*

There are no variations to activities as specified in the management plans in the 2024-2025 compliance period.

3.9 Condition 9

If the Minister believes that it is necessary or convenient for the better protection of listed threatened species and communities to do so, the Minister may request that the person taking the action make specified revisions to the management plans specified in the conditions and submit the revised management plans for the Minister's written approval. The person taking the action must comply with any such request. The revised approved management plans must be implemented. Unless the Minister has approved the revised management plans, then the person taking the action must continue to implement the management plans originally approved, as specified in the conditions

The Minister has not requested any changes to management plans.

3.10 Condition 10

Unless otherwise agreed to in writing by the Minister, the person taking the action must publish the management plans referred to in these conditions of approval on their website. The management plans must be published on the website within one (1) month of being approved. The management plans must remain on the website for the duration of the action.

The management plans are available at:

https://www.wanneroo.wa.gov.au/info/20041/environment/318/neerabup_management_plans

4 COMPLIANCE WITH ENVIRONMENTAL MANAGEMENT PLANS

4.1 Construction Environmental Management Plan

Following is a review of activities in 2024-2025 Compliance Period against the requirements in the CEMP. Activities that have been reported in previous compliance periods are not included and those relating to development along the boundary of Mather Reserve are not required as development has not commenced within this area.

Currently the extraction activities on the site are audited against the requirements under all management plans and conditions of approvals under State and Federal legislation. There have been no non-compliances with requirements under the CEMP to date.

4.1.1 Auditing

Comprehensive auditing against the criteria and requirements under the CEMP has been undertaken since the commencement of the sand extraction on Lot 9003 Mather Road. A comprehensive audit of all conditions of approval under requirements for Federal, State and Local Government Approvals was undertaken on 11 July 2025 (Appendix 6). Additionally, compliance inspections have been undertaken (Appendix 7).

4.1.2 Clearing

There was no clearing in the compliance period and a total of 78.3ha has been cleared since commencement (Figure 1).

4.1.3 Topsoil and Dieback Management

The topsoil mapping was included in the 2019-2020 compliance report. The topsoil currently stripped from the 'Uninterpretable' area remains in the 'Uninterpretable' area with much of the topsoil being incorporated and re-used as fill to reach the required finished levels as it is not suitable for use in rehabilitation. Topsoil for the 'Uninfested Area is stockpiled appropriately in the 'Uninfested' area. Stockpiles are being managed in accordance with the CEMP. All Grass Tree removal is completed with verified clean machinery.

4.1.4 Fauna Management

Fauna management requirements under the CEMP being implemented on the site include:

- Display of the contact information for Wildcare Hotline and fauna handler on the Health, Safety and Environment noticeboard in the site office and a qualified fauna handler is on-call during all site activities.
- Inspection of the site for presence of foraging Carnaby's Black-Cockatoo and any injured fauna is undertaken on routine boundary inspections.
- Pets, domesticated animals and firearms are prohibited on the site.
- Personnel are prohibited from feeding or interacting with fauna (native or feral).

A comprehensive fauna trapping program was undertaken during clearing in the 2022-2023 Compliance Period as reported in the 2022-2023 Compliance Report. No trapping program was required in the 2024-2025 compliance period.

4.1.5 Dust

Dust management measures are being undertaken with a watercart onsite and being utilised when required as verified during site inspections (Appendix 6 and 7). Mather Reserve has not had any adverse impact from dust.

4.1.6 Access

Signage, fences and vegetation bunds have been used to restrict access to areas that have not been cleared within the development footprint (Appendix 6 and 7). Access is restricted to Mather reserve by fencing as reported in the 2019-2020 Compliance Report. Fencing and controlled access is maintained with evidence logged in the City of Wanneroo's record system.

4.1.7 Weeds

There have not been any infestations of significant weeds recorded in the development footprint. Mather Road verges have undergone weed management with no new infestations (Appendix 6 and 7).

4.1.8 Conclusion

The action is being implemented in compliance with the CEMP.

4.2 Conservation Area Management Plan

Activities in the 2024-2025 Compliance Period under the requirements in the CAMP are detailed in the following sections. Activities that have been reported in previous compliance periods are not included and those relating to development along the boundary of Mather Reserve are not required as development has not commenced within this area. There have been no non-compliances to date.

4.2.1 Auditing

Comprehensive auditing against the criteria and requirements under the CAMP has been undertaken since the commencement of the sand extraction on Lot 9003 Mather Road. A comprehensive audit of all conditions of approval under requirements for Federal, State and Local Government Approvals was undertaken on 17 June 2024 (Appendix 6).

Inspections and actions as they pertain to the management of the Conservation Reserves have been fully audited in the comprehensive audit of all conditions of approval undertaken on 11 July 2025 (Appendix 6) and for the preparation of this Compliance Report.

4.2.2 Access

The fencing around the conservation areas is monitored on a weekly basis, exceeding the requirement under the CAMP due to the frequency of attempted unauthorised access. The fence to the Mary Street Reserve has had additional shade cloth attached to the boundary fence of the reserve and the

adjoining lot to reduce the amount of weed seed coming from the adjoining lot as reported in the 2020-2021 Compliance Report. Additionally, a bollard barrier was installed at the Mather Road Reserve in September 2020 as supplementary works to restrict access into the Conservation Area as reported in the 2020-2021 Compliance Report. Fencing is inspected and some repairs to the fence around Mather Reserve was undertaken in June 2024. Additional repairs were required in the 2024-2025 compliance period in Mather Reserve as logged in the City of Wanneroo's record system.

4.2.3 Firebreaks and Drainage

Firebreaks have been installed around the Conservation Reserves. The firebreaks were upgraded to crushed limestone in two stages. The first stage comprised the eastern and southern boundaries and was constructed in 2018. The second stage comprised the western and northern boundaries and was constructed in 2019. The drainage infrastructure was installed in 2021. There were some incidences of erosion due to heavy rains in 2021 so caged gabions have been installed in the impacted areas as reported in the 2020-2021 Compliance Period. Additional works on firebreaks are scheduled for the 2024-2025 compliance period.

Firebreaks are being inspected and some minor pruning works were undertaken for the firebreak around Mather Reserve on 25 February 2022. In 2024 more limestone was laid on the Mather Reserve tracks and some pruning was undertaken. Invoices for all firebreak maintenance are logged in the City of Wanneroo's record system.

4.2.4 Dieback

Site inspection undertaken on 30 November 2020 showed no evidence of dieback impacting on the conservation reserves as reported in the 2020-2021 Compliance period. Dieback monitoring for Mather Reserve and Mary Street Reserve shows that no dieback is recorded from each reserve (Appendix 11).

4.2.5 Weed Control

Extensive weed control has been undertaken during the compliance period in the Mather and Mary Street Reserves. Table 1 outlines the weed management actions undertaken during the compliance period. Invoices for all weed control are logged in the City of Wanneroo's record system.

Table 1: Weeding Activities undertaken in the Compliance Period

Date	Reserve	Targeted Weed	Methodology
August 2023	Mather Reserve	General weeds	Hand removal and spray
Winter 2023	Mary Street	Winter Grasses	Spray
July 2023	Mary Street	General weeds, fumitory and freesias Wiping (or dig out) Black Flag and One Leaf Cape Tulip	Spray, wipe and manual removal
Fortnightly in spring	Mary Street	Caltrop	Spray
September 2023	Mather Reserve	General weeds	Hand removal and spray
September 2023	Mary Street	General weeds, fumitory and freesias, Gladiolus	Spray and manual removal
October 2023	Mather Reserve	General weeds	Spray

Date	Reserve	Targeted Weed	Methodology
October 2023	Mary Street	Wiping (or dig out) Black Flag and One Leaf Cape Tulip	Wipe and manual removal
November 2023	Mary Street	General weeds, fumitory and freesias and Wiping (or dig out) Black Flag and One Leaf Cape Tulip	Spray, wipe and manual removal
December 2023	Mather Reserve	General weeds	Spray
January 2024	Mather Reserve	General weeds	Hand removal
January 2024	Mary Street	General weeds, fumitory and freesias	Spray and manual removal
February 2024	Mary Street	Wiping (or dig out) Black Flag and One Leaf Cape Tulip	Wipe and manual removal
April 2024	Mary Street	General weeds, fumitory and freesias	Spray and manual removal
May 2024	Mary Street	Wiping (or dig out) Black Flag and One Leaf Cape Tulip	Wipe and manual removal
June 2024	Mary Street	General weeds, fumitory and freesias	Spray and manual removal
August 2024	Mary Street	General weeds and Veldt Grass	Spray and manual removal
October 2024	Mary Street	General weeds	Spray
October 2024	Mary Street	General weeds	Manual Removal
November 2024	Mather Reserve	General and woody weeds	Bush cutting and spray
November 2024	Mary Street	General weeds	Manual removal
December 2024	Mather Reserve	General weeds	Manual removal
January 2025	Mather Reserve	General weeds	Spray

Shade cloth has been added to the Mary Street reserve to interrupt weed vectors from the adjacent lot as reported in the 2020-2021 Compliance Report.

4.2.6 Pest Control

Pest control for foxes, feral cats and rabbits has been undertaken in the Mather Reserve and Mary Street Reserve in Spring/Summer 2023. Feral bees were removed from the Mather Reserve in November 2023. Invoices for all pest control are logged in the City of Wanneroo's record system.

4.2.7 Black Cockatoos

Black Cockatoo habitat in both reserves was monitored in 2022 in accordance with the CAMP as reported in the 2022-2023 compliance period. There were also five artificial hollows installed into Mather Reserve in early 2023 as reported in the 2023-2024 compliance period and were monitored between September 2023 and July 2024. The hollows were sited so that they had appropriate cover and direction to provide optimal conditions for Black Cockatoos. The hollows have not been utilised by Black Cockatoos to date.

4.2.8 Tree Management

There was the requirement for some tree management in both Mary Street and Mather Reserves with tree trimming undertaken by specialist tree services in June-July 2024. Trees were trimmed to ensure that the firebreaks are compliant with the *Bush Fires Act 1954*.

4.2.9 Planting and Maintenance

Tubestock was propagated from seed supplies harvested from local vegetation in 2020. Tubestock planting of species as required under the CAMP was undertaken in Mather Reserve in June 2020. *Dianella revoluta* were planted in July 2020 when the tubestock had reached appropriate maturity. Additional seed collection was undertaken in the first part of 2022. Propagation of seed stock was undertaken in late 2023 through to 2024 of seed collected from Mather Reserve.

Seed was collected from the Mary Street Reserve in January 2024 and was also used to propagate tubestock with additional seed sourced from the nearby Badgerup Reserve (less than 300m to the east). Additional seed was collected in early 2025 from the Mary Street Reserve.

Planting was undertaken in June 2024 in both Mather Reserve and Mary Street Reserve. Additional infill planting was undertaken in the Mary Street Reserve in June 2025. Previously planted and newly planted tubestock were watered over summer in November and December 2024 in the Mary Street Reserve.

One Grass Tree was salvaged from Mather Reserve in the 2023-2024 compliance period and was reinstated into the reserve on 27 June 2025.

Invoices for all propagation, planting and maintenance are logged in the City of Wanneroo's record system.

4.2.10 Monitoring

Monitoring as required under the CAMP includes the monitoring of permanent quadrats on a two-yearly basis. The quadrats were set up by Terrratree in 2016 (6 quadrats in Mather Reserve and 2 in Lot 24 Mary Street) and were monitored in 2020, 2022 and 2024. The next round of monitoring will be required in spring 2026 and will be reported in the 2026-2027 Compliance Report.

The 2024 vegetation monitoring report is provided as Appendix 8

4.2.11 Conclusion

The action is being implemented in compliance with the CAMP.

5 AUDIT TABLE

Note:
'Department' refers to the Australian Government Department administering the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Currently the Department of Climate Change, Energy, the Environment and Water(DCCEEW).
'Minister' refers to the Minister administering the EPBC Act and includes a delegate of the Minister.
CEMP: Construction Environmental Management Plan
CAMP: Conservation Area Management Plan
DBCA: Department of Biodiversity, Conservation and Attractions
DAWE: Department of Agriculture, Water and the Environment (former name of DCCEEW)
DotEE: Department of the Environment and Energy (former name of DCCEEW)

Table 2: Audit Table

EPBC Condition Number	Condition	Comments	Evidence	When	Status
1	The person taking the action must not clear more than 130.7 hectares (ha) of foraging habitat for the Carnaby's Black Cockatoo (*Calyptorhynchus latirostris*) from the proposal site. This clearing may only be undertaken if the management plans required under conditions 2 and 3 have been approved by the Minister.	A total of 78.3ha has been cleared.	Figure 1 in 2020-2021 Compliance Report	Ongoing	Compliant
2	To mitigate impacts to Carnaby's Black Cockatoos, prior to the commencement of the action, the person taking the action must prepare and submit a Construction Environmental Management Plan (CEMP) to the Minister for approval. The CEMP must be submitted at least 3 months prior to commencement of the action. The CEMP must include, but not be limited to: a) avoidance and mitigation measures to prevent impacts to black cockatoos following the commencement of the action; b) measures to physically delineate areas that will be within the Conservation Area; c) management measures to control site access, weeds, Phytophthora dieback, erosion and dust; d) details of monitoring, reporting and contingency measures if performance indicators are not met; e) timeframes for the implementation of the above measures; and f) descriptions of the roles and responsibilities of personnel associated with implementing each of the above measures.	The CEMP was approved on 25 July 2016 and changes 3 July 2020.	Evidence provided in all Compliance Reports	Prior to Commencement	Compliant – Complete unless further changes are made to the CEMP during the annual review
	If the Minister approves the CEMP the approved CEMP must be implemented	The CEMP is being implemented as per Section 5.1 of this report	Section 4.1	Ongoing	Compliant
3	To mitigate impacts to Carnaby's Black Cockatoos, prior to the commencement of the action. the person taking the action must prepare and submit a Conservation Area Management Pian (CAMP) to the Minister for approval. The CAMP must be submitted at least 3 months prior to commencement of the action. The CAMP must include management details for the Conservation Area and the Mary Street Site. These details must include: a) zoning and tenure arrangements; b) objectives, targets and completion criteria for revegetation programs to increase black cockatoo foraging habitat at the Mary Street Site; c) fencing and access management; d) management measures to control weeds, Phytophthora dieback, erosion and dust; e) timeframes and implementation of the above measures; and f) descriptions of the roles and responsibilities of personnel associated with implementing each of the above measures.	The CAMP was approved on 25 July 2016 and changes 3 July 2020.	Evidence provided in all Compliance Reports	Prior to Commencement	Compliant – Complete unless further changes are made to the CAMP during the annual review
	If the Minister approves the CAMP, the approved CAMP must be implemented.	The CAMP is being implemented as per Section 5.2 of this report	Section 4.2	Ongoing	Compliant

EPBC Condition Number	Condition	Comments	Evidence	When	Status
4	To offset the loss of Carnaby's Black Cockatoos foraging habitat, the person taking the action must: a) Prior to commencement of the action, provide the Department with written evidence that funds have been provided to the Western Australian Department of Parks and Wildlife (DPaW) for the acquisition of a 492 ha offset property in the vicinity of Gingin, Western Australia. b) Provide a textual description and map clearly defining the location and boundaries of the offset property and be accompanied with the offset attributes and shapefiles. c) If at any time the person taking the action is advised that the offset property cannot be acquired, the person taking the action must advise the Department in writing of the situation and advise of steps being taken to provide for an acceptable alternative offset.	The City acquired land for the purposes of an offset, meeting the requirements of this condition. As per correspondence provided to the city on 17 January 2017, Lots 103 and 104 on Plan 17335 are to be protected. Correspondence to DCCEEW (then DotEE) was provided on 17 January 2017 to provide details of and shapefiles for the offset area	Provided in the 2019-2020 Compliance Report	Prior to commencement	Complaint and Complete
5	Within 30 days after the commencement of the action, the person taking the action must advise the Department in writing of the actual date of commencement.	The action commenced on the 19 July 2017. The City provided written correspondence to the DCCEEW (then DotEE) of this commencement date.	Provided in the 2017-2018 Compliance Report	At commencement	Compliant and Complete
6	The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the management plans required by this approval, and make them available upon request to the Department. Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website. The results of audits may also be publicised through the general media.	All records are maintained in the City of Wanneroo document registers and record system. This includes inspection reports, invoices for works undertaken and audit reports	Not required – can be provided on request	When requested by the Minister	Not Applicable
7	Within three (3) months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of the management plans as specified in the conditions. Documentary evidence providing proof of the date of publication must be provided to the Department at the same time as the compliance report is published. Non-compliance with any of the conditions of the approval must also be reported to the Department within 2 business days of becoming aware of the non-compliance	The Compliance Report has been prepared to satisfy the condition and will be published at https://www.wanneroo.wa.gov.au/downloads/20041/environment There were no potential or actual contraventions in the 2023-2024 compliance period.	As per link.	Annually by October 17	Compliant
8	If the person taking the action wishes to carry out any activity otherwise than in accordance with the management plans as specified in the conditions, the person taking the action must submit to the Department for the Minister's written approval a revised version of the management plans. The varied activity shall not commence until the Minister has approved the varied management plans in writing. The Minister will not approve the varied management plans unless the revised management plans would result in an equivalent or improved environmental outcome over time. If the Minister approves the revised management plans, the management plans must be implemented in place of the management plans originally approved.	No variations have been required.	Not required	N/A	Compliant
9	If the Minister believes that it is necessary or convenient for the better protection of listed threatened species and communities to do so, the Minister may request that the person taking the action make specified revisions to the management plans specified in the conditions and submit the revised management plans for the Minister's written approval. The person taking the action must comply with any such request. The revised approved management plans must be implemented. Unless the Minister has approved the revised management plans, then the person taking the action must continue to implement the management plans originally approved, as specified in the conditions	There were no requests for changes to the CEMP and CAMP in the 2023-2024 Compliance Period	Not required	NA	Compliant
10	Unless otherwise agreed to in writing by the Minister, the person taking the action must publish the management plans referred to in these conditions of approval on their website. The management plans must be published on the website within one (1) month of being approved. The management plans must remain on the website for the duration of the action.	The approved CAMP and CEMP documentation are published on the City's website, available as of August 2016 and updated in 2020 with the updated plans and are available at: https://www.wanneroo.wa.gov.au/info/20041/environment/318/neerabup_management_plans .	As reported in each Compliance Report	Within 1 month of approval	Compliant

6 COMPLIANCE STATEMENT

No non-compliance with regards to EPBC referral 2007/3479 were identified during the period covered by this 2024 to 2025 EPBC Compliance Report.

The Business Park Industrial Development, Neerabup is therefore compliant with the requirements of EPBC referral 2007/3479.

7 PUBLIC AVAILABILITY OF COMPLIANCE REPORT

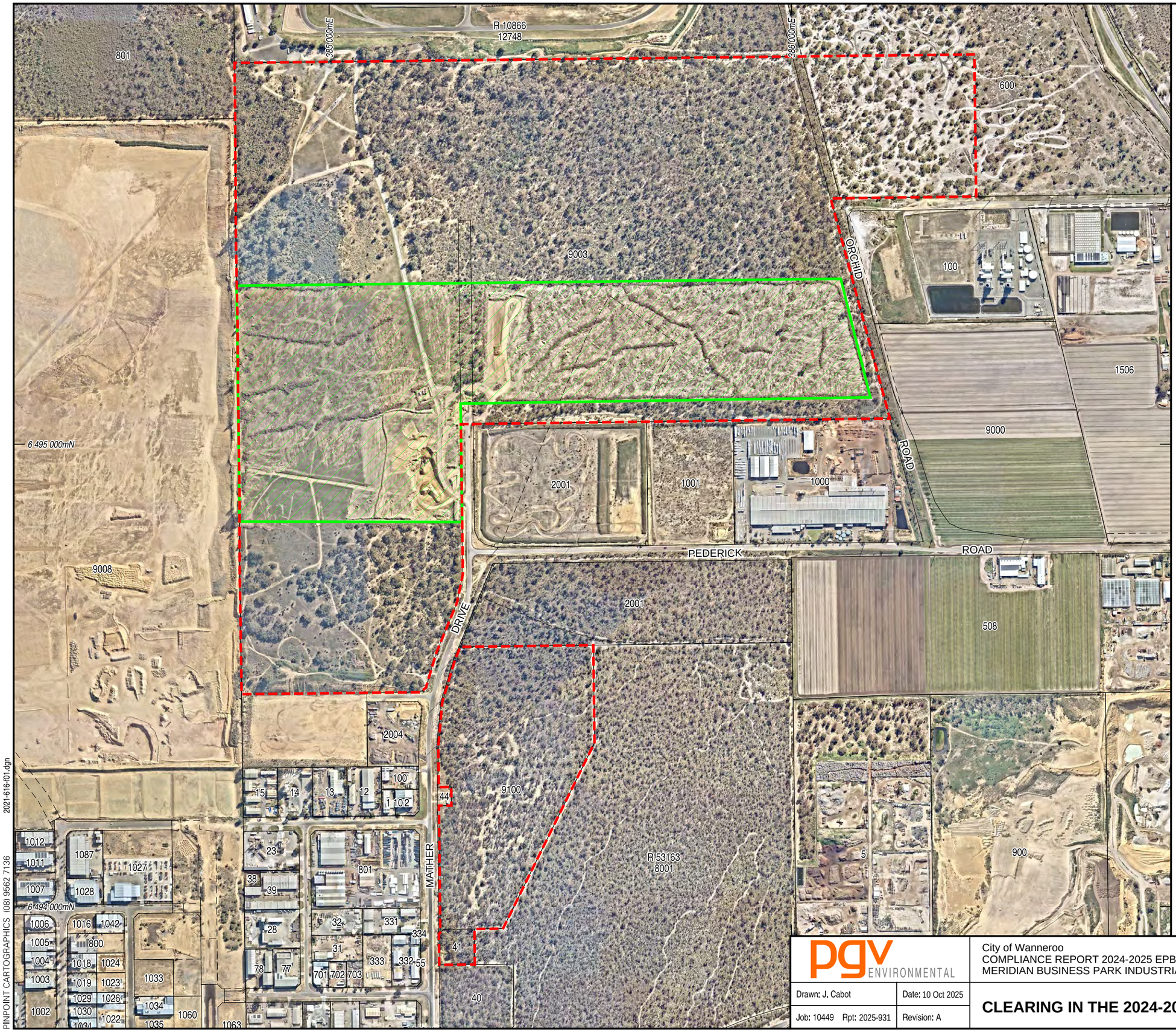
In accordance with Condition 6 of EPBC referral 2007/3479 accurate records of all activities are being retained for the life of the Project and can be made available when requested by the Department of Climate Change, Energy, Environment and Water.

In accordance with Condition 7 of EPBC referral 2007/3479 this Compliance Report will be published on the City of Wanneroo's website (https://www.wanneroo.wa.gov.au/downloads/20041/environment) and will remain available for the duration of the approval.

8 REFERENCES

Landgate (2025) Historical Aerial Photography Accessed October 2025 https://www.landgate.wa.gov.au/bmvf/app/mapviewer/ Government of Western Australia, Perth.

FIGURE



N

0 50 100 150 200 250m

SCALE 1 : 8 000 at A3 (MGA)

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary
- Clearing Footprint

CADASTRAL SOURCE: Landgate, October 2021.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown August 2021.

2021-616-f01.dgn

PINPOINT CARTOGRAPHICS (08) 9562 7136

pgv ENVIRONMENTAL

City of Wanneroo
COMPLIANCE REPORT 2024-2025 EPBC 2007/3479
MERIDIAN BUSINESS PARK INDUSTRIAL DEVELOPMENT, NEERABUP

Drawn: J. Cabot | Date: 10 Oct 2025

Job: 10449 Rpt: 2025-931 | Revision: A

CLEARING IN THE 2024-2025 COMPLIANCE PERIOD

Figure 1

APPENDIX 1

Approval under the EPBC Act
EPBC 2007/3479

Australian Government
Department of the Environment

Approval

Meridian Business Park Industrial Development, Neerabup, WA (EPBC 2007/3479)

This decision is made under sections 130(1) and 133 of the *Environment Protection and Biodiversity Conservation Act 1999*.

Proposed action

person to whom the approval is granted	CITY OF WANNEROO
proponent's ACN (if applicable)	ABN: 64 295 981 165
proposed action	To clear native vegetation, undertake resource extraction and industrial land development on Lot 9000 Flynn Drive, Lots 41 and 9003 Mather Drive and Part Lot 600 Wattle Avenue at Neerabup, Western Australia [See EPBC Act referral 2007/3479].

Approval decision

Controlling Provision	Decision
Listed threatened species and communities (sections 18 & 18A)	Approved

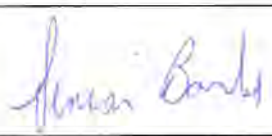
conditions of approval

This approval is subject to the conditions specified below.

expiry date of approval

This approval has effect until 31 December 2064.

Decision-maker

name and position	Dr. Simon Banks Assistant Secretary West Assessment Branch
signature	
date of decision	02/06/2014

Conditions attached to the approval

1. The person taking the action must not **clear** more than 130.7 hectares (ha) of **foraging habitat** for the Carnaby's Black Cockatoo (*Calyptorhynchus latirostris*) from the **proposal site** ("Development area" within the Map at Schedule 1). This **clearing** may only be undertaken if the **management plans** required under conditions 2 and 3 have been approved by the **Minister**.

2. To mitigate impacts to Carnaby's Black Cockatoos, prior to the **commencement of the action**, the person taking the action must prepare and submit a Construction Environmental Management Plan (CEMP) to the **Minister** for approval. The CEMP must be submitted at least 3 months prior to **commencement of the action**.

   The CEMP must include, but not be limited to:

   a) avoidance and mitigation measures to prevent impacts to black cockatoos following the **commencement of the action**;

   b) measures to physically delineate areas that will be within the **Conservation Area**;

   c) management measures to control site access, weeds, *Phytophthora* dieback, erosion and dust;

   d) details of monitoring, reporting and contingency measures if performance indicators are not met;

   e) timeframes for the implementation of the above measures; and

   f) descriptions of the roles and responsibilities of personnel associated with implementing each of the above measures.

   If the **Minister** approves the CEMP the approved CEMP must be implemented.

3. To mitigate impacts to Carnaby's Black Cockatoos, prior to the **commencement of the action**, the person taking the action must prepare and submit a Conservation Area Management Plan (CAMP) to the **Minister** for approval. The CAMP must be submitted at least 3 months prior to **commencement of the action**.

   The CAMP must include management details for the **Conservation Area** within the **Proposal site**, as well as the **Tip Site** and **Mary Street Site** (refer to Map at Schedule 2), information must include, but not be limited to:

   a) zoning and tenure arrangements;

   b) objectives, targets and completion criteria for revegetation programs to increase black cockatoo foraging habitat at the **Tip Site** and **Mary Street Site**;

   c) fencing and access management;

d) management measures to control weeds, Phytophthora dieback, erosion and dust;

e) timeframes and implementation of the above measures; and

f) descriptions of the roles and responsibilities of personnel associated with implementing each of the above measures.

If the **Minister** approves the CAMP, the approved CAMP must be implemented.

4. To offset the loss of Carnaby's Black Cockatoos **foraging habitat**, the person taking the action must:

a) Prior to **commencement of the action**, provide the **Department** with written evidence that funds have been provided to the Western Australian Department of Parks and Wildlife (**DPaW**) for the acquisition of a 400 ha **offset property** in the vicinity of Gingin, Western Australia.

b) Provide a textual description and map clearly defining the location and boundaries of the **offset property** and be accompanied with the **offset attributes** and **shapefiles**.

c) If at any time the person taking the action is advised that the offset property cannot be acquired, the person taking the action must advise the **Department** in writing of the situation and advise of steps being taken to provide for an acceptable alternative offset

5. Within 30 days after the **commencement of the action**, the person taking the action must advise the **Department** in writing of the actual date of commencement.

6. The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the **management plans** required by this approval, and make them available upon request to the **Department**. Such records may be subject to audit by the **Department** or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the **Department's** website. The results of audits may also be publicised through the general media.

7. Within three (3) months of every 12 month anniversary of the **commencement of the action**, the person taking the **action** must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of the **management plans** as specified in the conditions. Documentary evidence providing proof of the date of publication must be provided to the **Department** at the same time as the compliance report is published. Non-compliance with any of the conditions of the approval must also be reported to the **Department** within 2 business days of becoming aware of the non-compliance.

8. If the person taking the action wishes to carry out any activity otherwise than in accordance with the **management plans** as specified in the conditions, the person taking the action must submit to the **Department** for the **Minister's** written approval a revised version of the **management plans**. The varied activity shall not commence until the Minister has approved the varied **management plans** in writing. The **Minister** will not approve the varied **management plans** unless the revised **management plans** would result in an equivalent or improved environmental outcome over time. If the **Minister** approves the

revised **management plans**, the **management plans** must be implemented in place of the **management plans** originally approved.

9. If the **Minister** believes that it is necessary or convenient for the better protection of listed threatened species and communities to do so, the **Minister** may request that the person taking the action make specified revisions to the **management plans** specified in the conditions and submit the revised **management plans** for the **Minister's** written approval. The person taking the action must comply with any such request. The revised approved **management plans** must be implemented. Unless the **Minister** has approved the revised **management plans**, then the person taking the action must continue to implement the **management plans** originally approved, as specified in the conditions.

10. Unless otherwise agreed to in writing by the **Minister**, the person taking the action must publish the **management plans** referred to in these conditions of approval on their website. The **management plans** must be published on the website within one (1) month of being approved. The **management plans** must remain on the website for the duration of the **action**.

Definitions

Action is the clearing of 130.7 ha of native vegetation, undertaking resource extraction and industrial land development on Lot 9000 Flynn Drive, Lots 41 and 9003 Mather Drive and Part Lot 600 Wattle Avenue at Neerabup, Western Australia

Clear/Clearing is defined as the cutting down, felling, thinning, logging, removing, killing, destroying, poisoning, ringbarking, uprooting or burning of native vegetation.

Commencement of the action, means any preparatory works required to be undertaken including clearing vegetation, the erection of any onsite temporary structures, tunnel enhancement works and the use of heavy duty equipment for demolition or other purposes relating to the action, including the breaking of ground.

Conservation area is a 50 ha area of native vegetation within the proposal site to be managed in accordance with the Conservation Area Management Plan (refer to "on-site conservation area" within the Map at Schedule 1 and Schedule 2).

Department, the Australian Government Department administering the *Environment Protection and Biodiversity Conservation Act 1999*.

DPaW means the Western Australian Department of Parks and Wildlife or any successor agency.

EPBC Act is the *Environment Protection and Biodiversity Conservation Act 1999*.

Foraging habitat as defined in the former Department of Sustainability, Environment, Water, Population & Communities, *EPBC Act Referral Guidelines for three species of Western Australian black cockatoos: Carnaby's black cockatoo (Endangered) (Calyptorhynchus latirostris), Baudin's black cockatoo (Vulnerable) (Calyptorhynchus baudinii), Forest red-tailed black cockatoo (Calyptorhynchus banksii naso)* (October 2012).

Management Plans means the Construction Environmental Management Plan (CEMP) and the Conservation Area Management Plan (CAMP).

Mary Street Site is a 4 ha site located at Lot 24 Mary Street (refer to refer to Map at Schedule 2).

Minister is the Minister administering the *Environment Protection and Biodiversity Conservation Act 1999* and includes a delegate of the Minister.

Offset attributes means an '.xls' file capturing relevant attributes of the Offset Area, including the EPBC reference ID number, the physical address of the offset site, coordinates of the boundary points in decimal degrees, the EPBC protected matters that the offset compensates for, any additional EPBC protected matters that are benefiting from the offset, and the size of the offset in hectares.

Offset property means the acquisition of a 400 ha offset property in the vicinity of Gingin, that contains at least 400 ha of black cockatoo **foraging habitat**.

Proposal site means Lot 9000 Flynn Drive, Lots 41 and 9003 Mather Drive and Part Lot 600 Wattle Avenue at Neerabup, Western Australia.

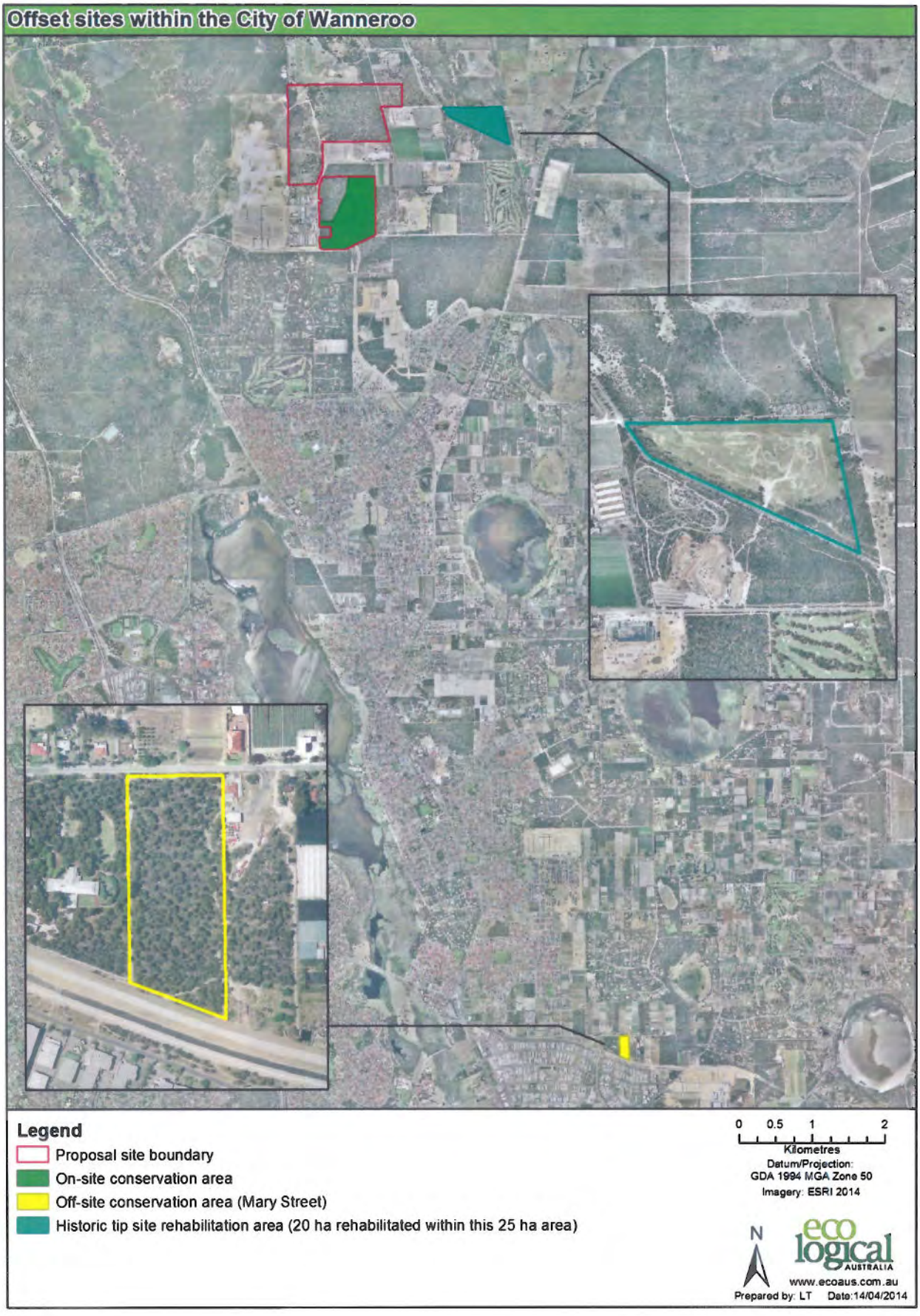
Shapefiles means an ESRI Shapefile containing '.shp', '.shx' and '.dbf' files and other files capturing attributes of the Offset Area, including the shape, EPBC reference ID number and EPBC protected matters present at the relevant site. Attributes should also be captured in '.xls' format and in accordance with Departmental Requirements.

Tip site is a 25 ha site (of which 20 ha is proposed to be rehabilitated) at 1815 Old Yanchep Road (Lot 10823) (refer to Map at Schedule 2).

Schedule 1


Proposal site
bing
Legend
Proposal site boundary
Development area
Retained/proposed on-site conservation area
0 100 200 400
Metres
Datum/Projection:
GDA 1994 MGA Zone 50
Imagery: Bing aerial 2014
N
eco logical AUSTRALIA
www.ecoaus.com.au
Prepared by: LT Date:14/04/2014

Schedule 2


Offset sites within the City of Wanneroo
Legend
Proposal site boundary
On-site conservation area
Off-site conservation area (Mary Street)
Historic tip site rehabilitation area (20 ha rehabilitated within this 25 ha area)
0 0.5 1 2
Kilometres
Datum/Projection:
GDA 1994 MGA Zone 50
Imagery: ESRI 2014
N
eco logical AUSTRALIA
www.ecoaus.com.au
Prepared by: LT Date:14/04/2014

APPENDIX 2

Notice of Variation to Conditions 2014 (EPBC 2007/3479)

Australian Government
Department of the Environment

VARIATION TO PROPOSAL

Meridian Business Park Industrial Development, Neerabup, WA (EPBC 2007/3479)

This decision to vary a proposal is made under section 156A of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

Proposed action

Designated proponent	CITY OF WANNEROO ABN: 64 295 981 165
Original proposed action	To clear up to 210 ha of habitat to develop an industrial estate known as the Meridian Business Park on Lot 9003, Lot 41, Lot 9000 and part of Lot 600 located at Neerabup, Western Australia.

Variation

Variation of proposal	The variation is: To clear native vegetation, undertake resource extraction and industrial land development on Lot 9000 Flynn Drive, Lots 41 and 9003 Mather Drive and Part Lot 600 Wattle Avenue at Neerabup, Western Australia.
Date of effect	This variation has effect on the date the instrument is signed

Person authorised to make decision

name and position	Dr. Simon Banks Assistant Secretary West Assessment Branch
Signature	
Date of decision	02/06/ 2014

APPENDIX 3

Notice of Variation to Conditions June 2016 (EPBC 2007/3479)

Australian Government
Department of the Environment

VARIATION TO CONDITIONS ATTACHED TO APPROVAL

Meridian Business Park Industrial Development, Neerabup, WA (EPBC 2007/3479)

This decision to vary a condition of approval is made under section 143 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

Approved action

Person to whom the approval is granted	CITY OF WANNEROO ABN: 64 295 981 165
Approved action	To clear native vegetation, undertake resource extraction and industrial land development on Lot 9000 Flynn Drive, Lots 41 and 9003 Mather Drive and Part Lot 600 Wattle Avenue at Neerabup, Western Australia [See EPBC Act referral 2007/3479].

Variation

Variation of conditions of approval	The variation is: Delete condition 3 and 4 attached to the approval dated 2 June 2014 and substitute with the conditions and definition specified below. Remove the definition of the Pinjar tipsite. **Note:** All other conditions including the definitions in the approval dated 2 June 2014 remain unchanged.
Date of effect	This variation has effect on the date the instrument is signed

Person authorised to make decision

Name and position	Shane Gaddes Assistant Secretary Compliance & Enforcement Branch
Signature	S. Gaddes
Date of decision	17 June 2016

3. To mitigate impacts to Carnaby's Black Cockatoos, prior to the **commencement of the action**, the person taking the action must prepare and submit a Conservation Area Management Plan (CAMP) to the **Minister** for approval. The CAMP must be submitted at least 3 months prior to **commencement of the action.**

   The CAMP must include management details for the **Conservation Area** within the **Proposal site**, as well as the **Mary Street Site** (refer to Map at Schedule 2), information must include, but not be limited to:

   a) zoning and tenure arrangements;

   b) objectives, targets and completion criteria for revegetation programs to increase black cockatoo foraging habitat at the **Mary Street Site**;

   c) fencing and access management;

   d) management measures to control weeds, Phytophthora dieback, erosion and dust;

   e) timeframes and implementation of the above measures; and

   f) descriptions of the roles and responsibilities of personnel associated with implementing each of the above measures.

   If the **Minister** approves the CAMP, the approved CAMP must be implemented.

4. To offset the loss of Carnaby's Black Cockatoos **foraging habitat**, the person taking the action must:

   a) Prior to **commencement of the action**, provide the **Department** with written evidence that funds have been provided to the Western Australian Department of Parks and Wildlife (**DPaW**) for the acquisition of a 492 ha **offset property** in the vicinity of Gingin, Western Australia.

   b) Provide a textual description and map clearly defining the location and boundaries of the **offset property** and be accompanied with the **offset attributes** and **shapefiles**.

   c) If at any time the person taking the action is advised that the offset property cannot be acquired, the person taking the action must advise the **Department** in writing of the situation and advise of steps being taken to provide for an acceptable alternative offset.

Definitions

Offset property means the acquisition of a 492 ha offset property in the vicinity of Gingin that contains at least 492 ha of black cockatoo **foraging habitat**.

Schedule 2



Regional Location

City of Wanneroo Landholdings, Meridian Business Park, Neerabup Industrial Area

Coordinate System: GDA 1994 MGA Zone 50

0 1 2 3

Kilometres

1:100,000 (A4)

LEGEND

- Development Site
- Offset Area
- Neerabup Industrial Estate

AECOM does not warrant the accuracy or completeness of information displayed in this map and any person using it does so at their own risk. AECOM shall bear no responsibility or liability for any errors, faults, defects, or omissions in the information.

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AECOM

Last Modified 16/02/2016 at 03:02 PM by fotheringhamd

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Last Printed: Never

APPENDIX 4

Notice of Variation to Conditions November 2016 (EPBC 2007/3479)

Australian Government
Department of the Environment and Energy

VARIATION TO CONDITIONS ATTACHED TO APPROVAL

Meridian Business Park Industrial Development, Neerabup, WA (EPBC 2007/3479)

This decision to vary a condition of approval is made under section 143 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

Person to whom the approval is granted	City of Wanneroo ABN: 64 295 981 165
Approved action	To clear native vegetation, undertake resource extraction and industrial land development on Lot 9000 Flynn Drive, Lots 41 and 9003 Mather Drive and Part Lot 600 Wattle Avenue at Neerabup, Western Australia [See EPBC Act referral 2007/3479].

Variation

Variation of conditions of approval	The variation is: Delete Schedule 1 and Schedule 2 attached to the approval and substitute with Schedule 1 and Schedule 2 specified below. Revoke the definition of Tip site attached to the approval.
Date of effect	This variation has effect on the date the instrument is signed.

Person authorised to make decision

Name and position	Monica Collins Assistant Secretary Compliance & Enforcement Branch
Signature	Monica.
Date of decision	10 November 2016

Schedule 1



NOTE: While the City of Wanneroo has made every effort to ensure the accuracy and completeness of data it accepts no responsibility or liability for any errors or omissions within the information presented. Based on information provided by and with the permission of the Western Australian Land Authority trading as LANDGATE (2012).

Schedule 2



NOTE: All dimensions and areas depicted on this plan are subject to survey.
Road widening based on combined design using the existing MRS Other Regional Roads Reservation & DoP/GHD Flynn Drive Planning Study designs.

NOTE While the City of Wanneroo has made every effort to ensure the accuracy and completeness of data it accepts no responsibility or liability for any errors or omissions within the information presented
Based on information provided by and with the permission of the Western Australian Land Authority trading as LANDGATE (2012)

Schedule 2



NOTE While the City of Wanneroo has made every effort to ensure the accuracy and completeness of data it accepts no responsibility or liability for any errors or omissions within the information presented. Based on information provided by and with the permission of the Western Australian Land Authority trading as LANDGATE (2012)

APPENDIX 5

Notice of Variation to Conditions 2019 (EPBC 2007/3479)

Australian Government
Department of the Environment and Energy

VARIATION OF CONDITIONS ATTACHED TO APPROVAL

Meridian Business Park Industrial Development, Neerabup, WA (EPBC 2007/3479)

This decision to vary conditions of approval is made under section 143 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

Approved action

Person to whom the approval is granted	CITY OF WANNEROO ABN: 64 295 981 165
Approved action	To clear native vegetation, undertake resource extraction and industrial land development on Lot 9000 Flynn Drive, Lots 41 and 9003 Mather Drive and Part Lot 600 Wattle Avenue at Neerabup, Western Australia [See EPBC Act referral 2007/3479].

Variation

Variation of conditions attached to approval	The variation is: Delete conditions 1 and 3 attached to the approval and substitute with the conditions specified in the table below. Delete the definitions of Conservation Area, Proposal Site and Mary Street Site and substitute the definitions specified in the table below. Revoke the definition of Action. Delete Schedule 1 and Schedule 2 attached to the approval and substitute with Schedule 1 and Schedule 2 specified in the table below. Add Schedule 3 specified in the table below.
Date of effect	This variation has effect on the date the instrument is signed

Person authorised to make decision

Name and position	Greg Manning Assistant Secretary Assessments (WA, SA, NT) and Post Approval Branch
Signature	
Date of decision	22 June 2019

Date of decision	Conditions attached to approval
As varied on the date this instrument was signed	1. The person taking the action must not **clear** more than 130.7 hectares (ha) of **foraging habitat** for the Carnaby's Black Cockatoo (*Calyptorhynchus latirostris*) from the **proposal site**. This **clearing** may only be undertaken if the **management plans** required under conditions 2 and 3 have been approved by the **Minister**.
Original dated 2/6/2014	2. To mitigate impacts to Carnaby's Black Cockatoos, prior to the **commencement of the action**, the person taking the action must prepare and submit a Construction Environmental Management Plan (CEMP) to the **Minister** for approval. The CEMP must be submitted at least 3 months prior to **commencement of the action**. The CEMP must include, but not be limited to: a) avoidance and mitigation measures to prevent impacts to black cockatoos following the **commencement of the action**; b) measures to physically delineate areas that will be within the **Conservation Area**; c) management measures to control site access, weeds, *Phytophthora* dieback, erosion and dust; d) details of monitoring, reporting and contingency measures if performance indicators are not met; e) timeframes for the implementation of the above measures; and f) descriptions of the roles and responsibilities of personnel associated with implementing each of the above measures. If the **Minister** approves the CEMP the approved CEMP must be implemented.
As varied on the date this instrument was signed	3. To mitigate impacts to Carnaby's Black Cockatoos, prior to the **commencement of the action**, the person taking the action must prepare and submit a Conservation Area Management Plan (CAMP) to the **Minister** for approval. The CAMP must be submitted at least 3 months prior to **commencement of the action**. The CAMP must include management details for the **Conservation Area** and the **Mary Street Site**. These details must include: a) zoning and tenure arrangements; b) objectives, targets and completion criteria for revegetation programs to increase black cockatoo foraging habitat at the **Mary Street Site**;

Date of decision	Conditions attached to approval
	c) fencing and access management; d) management measures to control weeds, Phytophthora dieback, erosion and dust; e) timeframes and implementation of the above measures; and f) descriptions of the roles and responsibilities of personnel associated with implementing each of the above measures. If the **Minister** approves the CAMP, the approved CAMP must be implemented.
Variation dated 17/6/2016	4. To offset the loss of Carnaby's Black Cockatoos **foraging habitat**, the person taking the action must: a) Prior to **commencement of the action**, provide the **Department** with written evidence that funds have been provided to the Western Australian Department of Parks and Wildlife (**DPaW**) for the acquisition of a 492 ha **offset property** in the vicinity of Gingin, Western Australia. b) Provide a textual description and map clearly defining the location and boundaries of the **offset property** and be accompanied with the **offset attributes** and **shapefiles**. c) If at any time the person taking the action is advised that the offset property cannot be acquired, the person taking the action must advise the **Department** in writing of the situation and advise of steps being taken to provide for an acceptable alternative offset
Original dated 2/6/2014	5. Within 30 days after the **commencement of the action**, the person taking the action must advise the **Department** in writing of the actual date of commencement.
Original dated 2/6/2014	6. The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the **management plans** required by this approval, and make them available upon request to the **Department**. Such records may be subject to audit by the **Department** or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the **Department's** website. The results of audits may also be publicised through the general media.
Original dated 2/6/2014	7. Within three (3) months of every 12 month anniversary of the **commencement of the action**, the person taking the action must publish a report on their website addressing compliance with each of the

Date of decision	Conditions attached to approval
	conditions of this approval, including implementation of the **management plans** as specified in the conditions. Documentary evidence providing proof of the date of publication must be provided to the **Department** at the same time as the compliance report is published. Non-compliance with any of the conditions of the approval must also be reported to the **Department** within 2 business days of becoming aware of the non-compliance.
Original dated 2/6/2014	8. If the person taking the action wishes to carry out any activity otherwise than in accordance with the **management plans** as specified in the conditions, the person taking the action must submit to the **Department** for the **Minister's** written approval a revised version of the **management plans**. The varied activity shall not commence until the Minister has approved the varied **management plans** in writing. The **Minister** will not approve the varied **management plans** unless the revised **management plans** would result in an equivalent or improved environmental outcome over time. If the **Minister** approves the revised **management plans**, the **management plans** must be implemented in place of the **management plans** originally approved.
Original dated 2/6/2014	9. If the **Minister** believes that it is necessary or convenient for the better protection of listed threatened species and communities to do so, the **Minister** may request that the person taking the action make specified revisions to the **management plans** specified in the conditions and submit the revised **management plans** for the **Minister's** written approval. The person taking the action must comply with any such request. The revised approved **management plans** must be implemented. Unless the **Minister** has approved the revised **management plans**, then the person taking the action must continue to implement the **management plans** originally approved, as specified in the conditions.
Original dated 2/6/2014	10. Unless otherwise agreed to in writing by the **Minister**, the person taking the action must publish the **management plans** referred to in these conditions of approval on their website. The **management plans** must be published on the website within one (1) month of being approved. The **management plans** must remain on the website for the duration of the **action**.

Date of decision	Definitions attached to approval
As varied on the date this instrument was signed	**Action -** Revoked
Original dated 2/6/2014	**Clear/Clearing** is defined as the cutting down, felling, thinning, logging, removing, killing, destroying, poisoning, ringbarking, uprooting or burning of native vegetation.

Date of decision	Definitions attached to approval
Original dated 2/6/2014	**Commencement of the action**, means any preparatory works required to be undertaken including clearing vegetation, the erection of any onsite temporary structures, tunnel enhancement works and the use of heavy duty equipment for demolition or other purposes relating to the action, including the breaking of ground.
As varied on the date this instrument was signed	**Conservation area** is a 50.0298 ha area of native vegetation at Lot 8001 (formerly part of Lot 9000) Flynn Drive, Neerabup, Western Australia designated as 'CONSERVATION OFFSET AREA' in the Map at Schedule 2, which is to be managed in accordance with the Conservation Area Management Plan.
Original dated 2/6/2014	**Department**, the Australian Government Department administering the *Environment Protection and Biodiversity Conservation Act 1999*.
Original dated 2/6/2014	**DPaW** means the Western Australian Department of Parks and Wildlife or any successor agency.
Original dated 2/6/2014	**EPBC Act** is the *Environment Protection and Biodiversity Conservation Act 1999*.
Original dated 2/6/2014	**Foraging habitat** as defined in the former Department of Sustainability, Environment, Water, Population & Communities, *EPBC Act Referral Guidelines for three species of Western Australian black cockatoos: Carnaby's black cockatoo (Endangered) (Calyptorhynchus latirostris), Baudin's black cockatoo (Vulnerable) (Calyptorhynchus baudinii), Forest red-tailed black cockatoo (Calyptorhynchus banksii naso)* (October 2012).
Original dated 2/6/2014	**Management Plans** means the Construction Environmental Management Plan (CEMP) and the Conservation Area Management Plan (CAMP).
As varied on the date this instrument was signed	**Mary Street Site** is the 4.0372 ha area located at Lot 24 Mary Street, Wanneroo, Western Australia, designated as 'CONSERVATION OFFSET AREA' in the map at Schedule 3.
Original dated 2/6/2014	**Minister** is the Minister administering the *Environment Protection and Biodiversity Conservation Act 1999* and includes a delegate of the Minister.
Original dated 2/6/2014	**Offset attributes** means an '.xls' file capturing relevant attributes of the Offset Area, including the EPBC reference ID number, the physical address of the offset site, coordinates of the boundary points in decimal degrees, the EPBC protected matters that the offset compensates for, any additional EPBC protected matters that are benefiting from the offset, and the size of the offset in hectares.

Date of decision	Definitions attached to approval
Variation dated 17/6/2016	**Offset property** means the acquisition of a 492 ha offset property in the vicinity of Gingin, that contains at least 492 ha of black cockatoo **foraging habitat**.
As varied on the date this instrument was signed	**Proposal site** means the area designated as "PROPOSAL AREA (EPBC 2007/3479)" in the map at Schedule 1, comprising Lot 9100 (formerly part of Lot 9000) Flynn Drive, Lot 41 and part Lot 9003 Mather Drive and Part Lot 600 Wattle Avenue, at Neerabup, Western Australia.
Original dated 2/6/2014	**Shapefiles** means an ESRI Shapefile containing '.shp', '.shx' and '.dbf' files and other files capturing attributes of the Offset Area, including the shape, EPBC reference ID number and EPBC protected matters present at the relevant site. Attributes should also be captured in '.xls' format and in accordance with Departmental Requirements.
Variation dated 10/11/2016	**Tip site** - Revoked

Date of decision	Schedule 1 – Proposal Area - Neerabup Industrial Area – Site Plan
As varied on the date this instrument was signed	

Date of decision	**Schedule 2 Lot 8001 (former Lot 9000) Flynn Drive Neerabup Onsite Offset Site**
As varied on the date this instrument was signed	

Date of decision	**Schedule 3 – Lot 24 – Mary Street Wanneroo Off-Site Offset site**
As varied on the date this instrument was signed	

APPENDIX 6

Comprehensive Audit

No	Current Responsibility	Approval/ MP	Theme	Condition/ Management Action	Requirement	Timing	Current Status	Evidence/Document Reference	Reporting Status	Compliance Status	Notes
1	Urban Resources	EPBC 2007/3470	Statutory	1	Clearing no more than 130.7ha	Ongoing	Total clearing 78.3ha as of June 2023	Map of clearing	No clearing undertaken in 2024-2025 compliance period	Compliant	0
2	City of Wanneroo	EPBC 2007/3470	Statutory	1	Clearing cannot commence prior to approval of management plans	Prior to commencement of clearing	CEMP and CAMP Approved 16 June 2017 and updated plans approved on 3 July 2020	Letter of approval 25/7/2016 Letter of Approval of 2020 versions 3/7/2020	Initial plan approval reported in 2018-2019 Compliance report, approval of updated versions reported in EPBC Compliance Report 2019-2020	Complete	0
3	City of Wanneroo	EPBC 2007/3470	Statutory	2	Preparation of the CEMP - note the requirements under the EPBC Approval relate specifically to Black Cockatoos and Black Cockatoo habitat	Prior to commencement of clearing	CEMP and CAMP Approved 16 June 2017 and updated plans approved on 3 July 2020	Letter of approval 25/7/2016 Letter of Approval of 2020 versions 3/7/2020	Initial plan approval reported in 2018-2019 Compliance report, approval of updated versions reported in EPBC Compliance Report 2019-2020	Complete unless subsequent versions of the CEMP are required	0
4	City of Wanneroo	EPBC 2007/3470	Statutory	2	Implementation of the CEMP	Ongoing	Clearing Commenced June 2021 - Requirements to be reviewed and monitoring and management actions to be commenced	To be collected in line with management plan requirements	Reported annually in Compliance report as of December 2022 78.3ha have been cleared	Compliant	Actions required from Urban Resources
5	City of Wanneroo	EPBC 2007/3470	Statutory	3	Preparation of the CAMP	Prior to commencement of clearing	CEMP and CAMP Approved 16 June 2017 and updated plans approved on 3 July 2020	Letter of approval 25/7/2016 Letter of Approval of 2020 versions 3/7/2020	Initial plan approval reported in 2018-2019 Compliance report, approval of updated versions reported in EPBC Compliance Report 2019-2020	Complete unless subsequent versions of the CAMP are required	0
6	Environment - City of Wanneroo	EPBC 2007/3470	Statutory	3	Implementation of the CAMP	Ongoing	Requirements to be reviewed and ongoing monitoring and management actions to be completed	0	Baseline surveys reported 2018-2019, Compliance with CAMP reported in 2023-2024	Compliant	0
7	City of Wanneroo	EPBC 2007/3470	Offset	4a	Gingin Offset site	Prior to commencement of the action	Land purchased and settled	Emailed correspondence from DBCA	Reported in the 2018-2019 Compliance report	Complete	0
8	City of Wanneroo	EPBC 2007/3470	Offset	4b	Gingin Offset site attributes and shapefiles	Prior to commencement of the action	Correspondence to DoTEE was provided on 17 January 2017 regarding the site details and shapefiles were sent with the 2018-2019 Compliance report	Emailed correspondence to DotEE 17 January 2017	Reported in the 2018-2019 Compliance report	Complete	0
9	City of Wanneroo	EPBC 2007/3470	Offset	4c	Notification of the offset site cannot be acquired	Prior to commencement of the action	Land acquisition complete so not required	NA	Reported in the 2018-2019 Compliance report	Not Required	0
10	City of Wanneroo	EPBC 2007/3470	Statutory	5	Notification of commencement	30 days after commencement	Commencement was 19 July 2017	Letter sent to Department	Reported in the 2018-2019 Compliance report	Complete	0
11	PGV Environmental	EPBC 2007/3470	Statutory	6	Record keeping	Ongoing	The Conservation Area Management Plan Implementation Register and Document Register has been established and one is to be established for the CEMP	Set up of CAMP register reported in all Compliance reports	Not required to be reported on unless requested by the Minister - internal auditing recommended	Compliant	It is a requirement that all records be kept but there is Audit report required unless requested by the Minister
12	PGV Environmental	EPBC 2007/3470	Reporting	7	Compliance reporting	Report due 19 October Annually	Compliance reports completed for 2018-2019 and 2019-2020. 2020-2021 Pending	Compliance reports available at https://www.wanneroo.wa.gov.au/info/20041/environment/318/neerabup_management_plans	Reports complete and on City of Wanneroo website	Compliant	0
13	City of Wanneroo	EPBC 2007/3470	Statutory	8	Variation of the action or management plans	If required	Not required	Not required	Not required	Not required	0
14	City of Wanneroo	EPBC 2007/3470	Statutory	9	Minister can request changes to the management plans	If required	Not required	Not required	Not required	Not required	0
15	City of Wanneroo	EPBC 2007/3470	Reporting	10	Publication of management plans	When management plans approved	Published on website	Management plans available at https://www.wanneroo.wa.gov.au/info/20041/environment/318/neerabup_management_plans	Reported in 2018-2019 Compliance report	Complete	0
16	City of Wanneroo - Project Manager	CPS 6359/3	Statutory	1	Clearing for remediation and Industrial Development	Ongoing	Purpose remains unchanged for end land use	DA	Reported in all Compliance Reports	Compliant	0
17	City of Wanneroo - Project Manager	CPS 6359/3	Statutory	2	Definition of lots on which clearing is permitted	Ongoing	Clearing is confined to the lots	Up to date aerial photographs showing clearing footprint	Reporting included in 2022 Compliance report as shown under Condition 11	Compliant for clearing works to date	0
18	Urban Resources	CPS 6359/3	Statutory	3	Area to be cleared is to be no more than 156.156 ha in CPS Map area	Ongoing	Clearing is confined to the area as mapped	Map to be provided by Urban Resources showing clearing footprint	Reported in Compliance report as shown under Condition 11	Compliant	0
19	City of Wanneroo	CPS 6359/3	Statutory	4	The Permit authorises clearing by third parties	Ongoing	Urban Resources is currently undertaking the clearing under contract with the City of Wanneroo	Contract between City of Wanneroo and Urban Resources	Not required to be reported - records to be maintained - part of DA	Compliant	0

No	Current Responsibility	Approval/ MP	Theme	Condition/ Management Action	Requirement	Timing	Current Status	Evidence/Document Reference	Reporting Status	Compliance Status	Notes
20	Urban Resources	CPS 6359/3	Statutory	5	Avoidance, Mitigation, reduce impact	Ongoing	Difficult to retain any vegetation during sandmining and Industrial development - Any vegetation to remain at boundary	Shapefiles and photographs	Not required to be reported - records to be maintained	Compliant	0
21	Environment - City of Wanneroo	CPS 6359/3	Offset	6	Offset site 1 - Mather Reserve	Prior to clearing	Ceded as Conservation to the Crown January 2018	Letter dated 8 January 2018 reported in 2018-2019 EPBC Compliance Report	Copy of Executed Conservation Covenant to be provided to CEO	Complete	Confirmation records that has been sent
22	Environment - City of Wanneroo	CPS 6359/3	Offset	7	Offset Site 2 - Mary Street	Prior to clearing	Ceded as Conservation to the Crown January 2018	Letter dated 8 January 2018 reported in 2018-2019 EPBC Compliance Report	Copy of Executed Conservation Covenant to be provided to CEO	Complete	Confirm records that has been sent
23	Environment - City of Wanneroo	CPS 6359/3	Offset	8	Offset Site 3 - Bindoon	Prior to clearing	Land purchased and settled	Emailed correspondence from DBCA	Copy of Executed Conservation Covenant to be provided to CEO	Complete	Confirm records that has been sent
24	Urban Resources	CPS 6359/3	Dieback	9	Dieback and Weed Control	Ongoing	Dieback register maintained for 2020 report	Urban Resource Dieback Inspection reports	Reported in Compliance report as shown under Condition 11	Compliant	0
25	Environment - City of Wanneroo	CPS 6359/3	Revegetation	10	Revegetation of track in Mather Reserve - additional to CPS6359/2	Six months after completion of remediation works	Revegetation commenced	Photographs and invoices as provided for 2024-2025 EPBC Compliance Report	Evidence recieved from the City's Environmental Officer	Compliant	0
26	Urban Resources	CPS 6359/3	Statutory	11	Records to be kept - Location, date, area	Ongoing	Clearing commenced 10/06/21. Any further clearing to be reported	Map and details to be provided by Urban Resources showing clearing footprint	Clearing commenced after previous compliance report	Compliant	0
27	City of Wanneroo	CPS 6359/3	Reporting	12	Reporting	Compliance report by 30 June annually	Compliance report for 2021 Submitted, Compliance reporting for the 2022 compliance period in progress	Compliance Report Ref 22523V02	Report completed	Compliant	0
28	City of Wanneroo - Project Manager	CPS 9267/1	Statutory	1	Clearing for remediation and Industrial Development	Ongoing	Purpose remains unchanged for end land use	DA	Not required to be reported - records maintained	Complete	Clearing complete
29	Urban Resources	CPS 9267/1	Statutory	2	Clearing on Road Reserve	Ongoing	Clearing is due to commence after 23/07/2021	Map to be provided by Urban Resources showing clearing footprint	Not required to be reported - records to be maintained	0	0
30	Urban Resources	CPS 9267/1	Statutory	3	Area to be cleared is to be no more than 1.15 ha in CPS Map area	Ongoing	Clearing is confined to the area as mapped	Map to be provided by Urban Resources showing clearing footprint	Not required to be reported - records to be maintained	0	0
31	City of Wanneroo - Project Manager	CPS 9267/1	Statutory	4	Avoidance, Mitigation, reduce impact	Ongoing	No vegetation to be retained	Shapefiles and photographs - clearing is complete and all records will be maintained	Not required to be reported - records maintained	Complete	Clearing complete
32	Urban Resources	CPS 9267/1	Dieback	5	Dieback and Weed Control	Ongoing	Once clearing commences	Dieback register - will be included in CPS 6359/3 Register	Not required to be reported - records to be maintained	0	0
33	Urban Resources	CPS 9267/1	Reporting	6	Records to be kept - vegetation of cleared area, Location, date, area, actions to minimise impacts, actions to minimise weeds and dieback	Ongoing	Clearing commenced 6/10/21 on Lot 9003. Any further clearing to be reported	Map and details to be provided by Urban Resources showing clearing footprint. Urban Resources responsible for Lot 9003 and the City for Lot 9100	Clearing reported - no additional clearing in the 2024-2025 Compliance period	0	0
34	City of Wanneroo	CPS 9267/1	Reporting	7	Reporting	When CEO requests	Not required	NA	NA	Compliant	0
35	Urban Resources	DA 2020/330	Statutory	1	The extractive industry to be confined to Lot 9003 and the Mather Road reserve	Ongoing	Clearing is confined to the lots	Map to be provided by Urban Resources showing clearing footprint	Included in Site Inspection Report September 2025	Compliant	0
36	Urban Resources	DA 2020/330	Statutory	2	land to be used of Extractive Industry	Ongoing	No additional activity noted	No additional activity noted, July Site Inspection	Site inspection confirmed	Compliant	0
37	City of Wanneroo	DA 2020/330	Statutory	3	Approval valid for 10 years	Expires 1 Dec 2030	Approval is valid	NA	NA	Compliant	Approval valid for 10 years but extraction proposed to be undertaken for 20 years
38	Urban Resources	DA 2020/330	Statutory	4	Conditions are enforceable beyond the expiry	Beyond 1 Dec 2030	Approval is valid	NA	NA	Compliant	0
39	Urban Resources	DA 2020/330	Statutory	5	Compliance with Extractive Industries Application Report - now termed Management Plan	Ongoing	To be determined from Management Actions	Evidence arising from evidence for specific management actions in the plan	November 2024 Inspection Report	0	0
40	Urban Resources	DA 2020/330	Statutory	6	DA is to be complied with in the case of an inconsistency	Ongoing	Noted - no inconsistencies noted	NA	0	Compliant	0
41	Urban Resources	DA 2020/330	Statutory	7	Actions in the CEMP can be varied	Ongoing	Not required yet	NA	If required to be included in annual report	Compliant	0
42	Urban Resources	DA 2020/330	Statutory	8	Staging program to be varied with permission from the City	Ongoing	Stage 1 extended- slight variation - agreed in site meeting 23 July 2021	Correspondence/minutes	Included in Site Inspection Report July 2021	Compliant	0

No	Current Responsibility	Approval/ MP	Theme	Condition/ Management Action	Requirement	Timing	Current Status	Evidence/Document Reference	Reporting Status	Compliance Status	Notes
43	Urban Resources	DA 2020/330	Traffic	9	Traffic to comply with Traffic Management Statement	Ongoing	To be determined from Traffic Impact Statement	Traffic from Flynn Drive to Tonkin Hwy as discussed site meeting 23 July 2021	Included in Site Inspection Report July 2021	Compliant	0
44	Urban Resources	DA 2020/330	Bushfire	10	Development to be undertaken in accordance with the Bushfire Management Plan	Ongoing	To be determined from Bushfire Management Plan	Evidence arising from evidence for specific management actions in the Statement	June 2023 Inspection Report	Compliant	0
45	Urban Resources	DA 2020/330	Fauna	11	Native Fauna Management Plan	Prior to clearing	Management Plan for clearing prepared and approved	Native Vertebrate Management Plan by Terrestrial Ecosystems -	Reported in 2022-2023 complaince period	Compliant	0
46	Urban Resources	DA 2020/330	Operations	12	Operating hours - 6-6 Mon-Sat exc. Public Holidays	Ongoing	Operations within specified hours	0	0	Compliant	0
47	Urban Resources	DA 2020/330	Reporting	13	Predictive Contour Plan	By 31 July each year for the coming 12 months	Predictive plan provided	Urban Resources to provide plan	Received July 2024 - no change to 2025	Compliant	0
48	Urban Resources	DA 2020/330	Closure	14	Removal of all equipment at the conclusion of mining	90 days after expiry of approval	Not required	Not required	Not required	Not required	0
49	Urban Resources	DA 2020/330	Closure	15	Preparation of a Site Remediation Plan	90 days after expiry of approval	Not required	Not required	Not required	Not required	0
50	Urban Resources	DA 2020/330	Closure	16	Detailed feature and contour survey of the subject land shall be submitted to the City; as well as a geotechnical, compaction and stabilisation certification of the finished ground levels.	90 days after expiry completion of extractive operations or expiry of approval	Not required	Not required	Not required	Not required	0
51	Urban Resources	DA 2020/330	Operations	17	Ablution and lunchroom facilities to be provided	Prior to commencement	The site has a toilet and site office/lunchroom established	Complete	0	Compliant	0
52	Urban Resources	DA 2020/330	Operations	18	Relocation of facilities shown in Fig 24 to be changed after agreement from the City in writing	Prior to commencement	The facilities are not located in the area as designated in Fig 24 with sand mining commenced in this area	Agreement obtained	0	Compliant	0
53	Urban Resources	DA 2020/330	Traffic	19	Crossover shall be provided to Mather Drive (and others if required), sealed and thereafter maintained to the satisfaction of the City.	Prior to commencement	Cross-over currently sealed	Photos of crossovers from site inspections	0	Compliant	0
54	Urban Resources	DA 2020/330	Traffic	20	Internal access roads from the site facilities compound to crossovers shall be sealed to the satisfaction of the City. All internal access roads (sealed and unsealed) shall be maintained to the City's satisfaction.	Ongoing	Internal access roads maintained	Photos of internal roads - review of City's satisfaction	0	Compliant	0
55	Urban Resources	DA 2020/330	Noise	21	Compliance with Noise Regulations	Ongoing	No complaints of excessive noise and no machinery likely to exceed thresholds	Complaints register	0	Compliant	0
56	Urban Resources	DA 2020/330	Dust	22	Prevention or minimisation the generation of dust or sand drift; no visible dust or sand drift outside site	Ongoing	Currently soil is wet - no dust generation	Complaints register, dust monitoring in accordance with Management Plan	0	Compliant	0
57	Urban Resources	DA 2020/330	Dust	23	No deposition of dust, sand or other materials on roads	Ongoing	TBD - review at site inspection	Photos of public roads utilised	0	Compliant	0
58	Urban Resources	DA 2020/330	Dust	24	Staging to be managed to a scale that meets the availability of resources for adequate dust suppression - City	Ongoing	50ha currently cleared - TBD if City approves	Correspondence with the City re 50ha	0	Compliant	0
59	Urban Resources	DA 2020/330	Extraction	25	Vertical separation	Ongoing	Contours to be provided and checked against groundwater contours	Current contour plan	0	Compliant - plan provided July 2024	0
60	Urban Resources	DA 2020/330	Extraction	26	Cease excavation if perceived risk to groundwater	Ongoing	Excavation to date not a risk to groundwater	Current contour plan	0	Compliant - plan provided July 2024	0
61	Urban Resources	DA 2020/330	Complaints	27	Complaints Log	Ongoing	Current log reviewed during site inspection	Skytrust	0	Compliant	0
62	Urban Resources	DA 2020/330	Reporting	28	Annual report including progress, production, monitoring, complaints, rehabilitation, dust and noise control	31 July each year	Report to be prepared	Report	Prepared prior to July 31 2024	Compliant	0
63	Urban Resources	DA 2020/330	Footnote	1	Substantial commencement in two years	44896	Commencement was June 2021	Commencement	Included in Site Inspection Report July 2021	Complete	0
64	Urban Resources	DA 2020/330	Footnote	2	The approved 'Industry — Extractive' must only be carried out while the operator holds an Extractive Industry Licence (EIL)	Ongoing	EIL held by Urban Resources	DA approval - expires 1 December 2030	Ongoing	Compliant	0

No	Current Responsibility	Approval/ MP	Theme	Condition/ Management Action	Requirement	Timing	Current Status	Evidence/Document Reference	Reporting Status	Compliance Status	Notes
65	Urban Resources	DA 2020/330	Footnote	3	Prior to the commencement of works the applicant should obtain all necessary approvals required from the Department of Mines, Industry Regulation and Safety under the Mining Act 1978, the Mines Safety and Inspection Act 1994 and any other relevant legislation.	Prior to commencement	Clearing permit, amended EPBC approved, Clearing permit for Road reserve	All approvals	Included in Site Inspection Report July 2021	Complete	0
66	Urban Resources	DA 2020/330	Footnote	4	The applicant should confirm the City's engineering and asset requirements in undertaking works on the road reserve land subject to this approval, prior to the land being disturbed. Confirmation can be sought from the City's Assets Directorate.	Prior to commencement in road reserve	Clearing permit for road reserve granted	Not required	Not required	Not required	0
67	Urban Resources	DA 2020/330	Footnote	5	Prior to the commencement of works a Clearing permit and EPBC Approval are required	Prior to commencement	Clearing permit amend EPBC approved, Clearing permit for Road reserve	CPS6359, CPS9267, EPBC2007/3470	Included in Site Inspection Report July 2021	Complete	0
68	Urban Resources	DA 2020/330	Footnote	6	Operations to be in accordance with the Environmental Protection Act 1986 including the Environmental Protection (Unauthorised Discharges) Regulations 2004 and the Environmental Protection (Noise) Regulations 1997.	Ongoing	All activities are in compliance	Incident registers and the 2021 Compliance report	Ongoing	Compliant	0
69	Urban Resources	DA 2020/330	Footnote	7	Licence must be obtained for the installation of any bores.	Ongoing	Bore license obtained and bore installed	License if a bore is required	0	Complete	0
70	Urban Resources	DA 2020/330	Footnote	8	Toilets should comply with the requirements of the Health (Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations 1974 and the Government Sewerage Policy, Perth Metropolitan Region.	Ongoing	Portable toilet installed on the site	Not required	Not required	Not required	0
71	Urban Resources	DA 2020/330	Footnote	9	The applicant is advised that the Management Plan appended to this approval (and the subject of Condition 5) provides for ongoing commitments which the applicant/site operator must adhere to. For example, the Management Plan stipulates that there will be further preparation of: •A Topsoil Management Plan and •Dieback mapping .	At the commencement of each stage	TBD - Topsoil management plan not provided	Topsoil management plan and mapping - plans received	Included in Site Inspection Report July 2021	Complete	0
72	Urban Resources	DA 2020/330	Footnote	10	The City has noted that the Management Plan appended to this approval contains numerous typographical, referencing and factual errors. It is strongly recommended that the applicant resolve these errors and lodge a revised Management Plan to support the City in its assessment and processing of the submitted Extractive Industry Licence application.	0	Not required - licence granted	Not required	Not required	Not required	0
73	Urban Resources	DA 2020/330	Footnote	11	The Department of Fire and Emergency Services has reviewed the Bushfire Management Plan referred to in Condition 10 above, and their comment is attached to this approval. In response to the DFES comment, it is advised that the applicant make appropriate arrangements with the City to ensure that the grasses and other vegetation on the Mather Drive verge areas are maintained to reduce bushfire risk on the site compound.	Ongoing	Grass currently low - arrangements to be made later in the year if slashing is required	Photos and inspection report	Included in Site Inspection Report Nov 2024	Compliant	0

No	Current Responsibility	Approval/ MP	Theme	Condition/ Management Action	Requirement	Timing	Current Status	Evidence/Document Reference	Reporting Status	Compliance Status	Notes
74	Urban Resources	DA 2020/330	Footnote	12	In relation to Condition 28, if the City forms the view that any matter identified in the Annual Report is unsatisfactory, the City will notify the landowners, applicant or site operators in writing of that matter and may also give direction as to how that matter may be addressed.	After receipt of report	First report to be submitted 31st July 2021	Correspondence	When required	Not required	0
75	Urban Resources	DA 2020/330	Footnote	13	In relation to Condition 32, the applicant and/or site operator is advised to also inform with nearly landowners prior to undertaking any blasting on the subject land.	Ongoing	Blasting is not proposed for the current area of extraction	Not required	Not required	Compliant	0
76	Urban Resources	DA 2020/330	Footnote	14	If an applicant is aggrieved by this determination there is a right of review by the State Administrative Tribunal in accordance with the Planning and Development Act 2005 Part	Noted	0	0	0	0	0
77	Urban Resources	CEMP	Reporting	Environmental Incident Register	Record of all environmental incidents on site	Ongoing	All incidents reported on Urban Resources' Skytrust system - no incidents reported	Sighting of Skytrust register during site inspection	Ongoing	Compliant	0
78	Urban Resources	CEMP	Reporting	Corrective Actions Register	Record of corrective actions required and tracking of their completion	Ongoing	All incidents reported on Urban Resources' Skytrust system - no incidents reported	Sighting of Skytrust register during site inspection	Included in Site Inspection Reports	Compliant	0
79	Urban Resources	CEMP	Reporting	Complaints Register	Record of all community complaints and their close out	Ongoing	All complaints reported on Urban Resources' Skytrust system - no incidents reported	Sighting of Skytrust register during site inspection	Included in Site Inspection Reports	Compliant	0
80	Urban Resources	CEMP	Reporting	Document Register	Record of key documents	Ongoing	All documents available in site office and available in online records	Sighting of Skytrust register during site inspection	Included in Site Inspection Reports	Compliant	0
81	Urban Resources	CEMP	Operations	Training and Competency	Project staff (including subcontractors) will be provided with environmental policies, information within the CEMP and related documents, environmental objectives and targets, project regulatory requirements and consequent staff responsibilities.	Ongoing	All policies available in temporary office, management plans available and staff aware of responsibilities appropriate to their roles	Sighting of induction records during site inspection	Included in Site Inspection Reports	Compliant	0
82	Urban Resources	CEMP	Operations	Training and Competency	Toolbox meetings	Weekly	Toolbox is part of daily prestart meetings	0	Included in Site Inspection Reports	Compliant	0
83	Urban Resources	CEMP	Reporting	Incident/ Emergency	Report of all incidents, actions and corrective actions	Ongoing	All incidents reported on Urban Resources' Skytrust system - no incidents reported	Sighting of Skytrust register during site inspection	Included in Site Inspection Reports	Compliant	0
84	PGV Environmental	CEMP	Audit	Auditing	Comprehensive audit	prior to the commencement of clearing for any stage of the action	Audit completed 27 July 2021	0	Included in Site Inspection Reports	Compliant	0
85	PGV Environmental	CEMP	Audit	Auditing	Comprehensive audit	at the completion of each stage of clearing	Audit completed 27 July 2021	0	Included in Site Inspection Reports	Compliant	0
86	PGV Environmental	CEMP	Audit	Auditing	Comprehensive audit	annually during resource extraction activities	Audit completed 27 July 2021	0	Included in Site Inspection Reports	Compliant	0
87	PGV Environmental	CEMP	Audit	Auditing	Audit report	After each audit	Audit completed 27 July 2021	0	Included in Site Inspection Reports	Compliant	0
88	PGV Environmental	CEMP	Audit	Auditing	Unscheduled environmental audits	Unscheduled/as needed	Not requested	0	Included in Site Inspection Reports	Not required	0
89	Urban Resources	CEMP	Clearing	8.2.1	Demarcate approved clearing area using GPS coordinates and flagged star pickets.	Prior to clearing	Clearing area marked on ground during initial clearing	Photos/surveyed lines	Included in Site Inspection Reports	Compliant	0
90	City of Wanneroo	CEMP	Access	8.2.2	Delineate Mather Reserve prior to any clearing on site, regardless of whether the clearing stage abuts the Mather Reserve.	Prior to commencement	Reserve fenced	Photos/surveyed lines	To be reported in 2021	Complete	0
91	Urban Resources	CEMP	Clearing	8.2.3	Demarcate topsoil, weed and dieback management boundaries.	Prior to clearing	Vegetation bunds and topsoil used to restrict access	Photos/surveyed lines	Included in Site Inspection Reports	Compliant	Noted that vegetation used to demarcated dieback boundary in first stage - photographed 13 July 2021
92	Urban Resources	CEMP	Clearing	8.2.4	Restrict access by personnel, vehicles and plant into vegetated areas adjacent to project boundary.	Ongoing	Vegetation bunds and topsoil used to restrict access	0	Included in Site Inspection Reports	Compliant	0

No	Current Responsibility	Approval/ MP	Theme	Condition/ Management Action	Requirement	Timing	Current Status	Evidence/Document Reference	Reporting Status	Compliance Status	Notes
93	Urban Resources	CEMP	Clearing	8.2.5	Ensure trees are felled into the construction zone, not into undisturbed vegetation.	During clearing	Clearing area marked on ground during initial clearing - pegs sighted during site inspection, felled trees on edge of vegetation within the clearing area	Photos/surveyed lines	Included in Site Inspection Reports	Compliant	0
94	Urban Resources	CEMP	Fauna	8.2.6	Retain logs for use as habitat landscaping and revegetation, where possible.	During clearing	No logs retained as yet - vegetation to be mulched at direction of the City	Photos of retained logs	Included in Site Inspection Reports	Compliant	0
95	Urban Resources	CEMP	Clearing	8.2.7	Stockpile all cleared vegetation separately and mulch for use either on-site (for stabilisation), as part of the CAMP or for other rehabilitation projects.	During clearing	Stockpiles of vegetation present - separated in different dieback management areas	Photos during inspections - photographs from 13 July 2021 show compliance to date	Included in Site Inspection Reports	Compliant	0
96	Urban Resources	CEMP	Access	8.2.8	Ensure no new informal tracks arise and all vehicle and personnel movement is limited to the approved project boundary.	Ongoing	Tracks to excavation site formalised and no additional tracks noted - some of the established tracks have been blocked using sand/vegetation to limit access	Photos and inspection notes	Included in Site Inspection Reports	Compliant	0
97	City of Wanneroo	CEMP	Seed collection	8.2.9	Conduct seed collection of uncleared areas of the Development site	Annually	Seed collection records/ seed bank statements available for 2021 and 2022	Seed collection records/ seed bank statements	Included in Site Inspection Report July 2021	Complaint	0
98	Urban Resources	CEMP	Reporting	8.2.10	Report all incidents relating to the Vegetation Clearing Management Sub-plan to the CC and EM within 24 hours of incident.	During clearing	No incidents as recorded on Skytrust	Skytrust	Included in Site Inspection Reports	Compliant	0
99	Urban Resources	CEMP	Audit	8.3.1	Inspect clearing to ensure that only trees flagged are felled or damaged.	Daily during clearing construction	All trees were to be felled in the sandmining footprint	Assessment of trees on boundary - photos during inspection	Included in Site Inspection Reports	Compliant	0
100	Urban Resources	CEMP	Audit	8.3.2	Inspect project boundary to ensure flagging and temporary fencing is intact and no boundary breach has occurred.	Daily during clearing. Fortnightly during construction	Markers showing limit of clearing with 20m buffer sighted during inspection, vegetation bund used as fencing	Inspection notes, photos	Included in Site Inspection Reports	Compliant	0
101	PGV Environmental	CEMP	Audit	8.3.3	Inspect felled timber and identify as suitable for use in rehabilitation and revegetation works.	Fortnightly during clearing construction	All vegetation to be mulched at direction of City. No suitable hollows were identified prior to clearing as noted in the Native Vertebrate Fauna Management Plan	Inspection notes, photos	Included in Site Inspection Reports	Compliant	0
102	Urban Resources	CEMP	Topsoil	9.2.1	Conduct topsoil mapping to identify weedy and dieback infested topsoil.	Prior to clearing	Dieback mapping completed 2020. Can overlay vegetation condition report from Eco logical	Dieback mapping/vegetation condition mapping	Included in Site Inspection Reports	Compliant	0
103	Urban Resources	CEMP	Topsoil	9.2.2	Demarcate topsoil boundaries with flagging.	Prior to clearing	Flagging sighted during inspection	Photographs,	Included in Site Inspection Reports	Compliant	0
104	Urban Resources	CEMP	Topsoil	9.2.3	Strip top 150 mm of soil and stockpile. Good, weedy and dieback infested topsoil is to be stockpiled separately.	After clearing	Topsoil from current excavation area all from the same area so no stockpiles required	Inspection notes, photos	Included in Site Inspection Reports	Compliant	0
105	Urban Resources	CEMP	Topsoil	9.2.4	Stabilise topsoil stockpiles in accordance with the Erosion and Dust sub-plan if topsoil is to be stockpiled for more than 7 days.	Ongoing	As per topsoil management plan soil being used as a bund	Inspection notes, photos	Included in Site Inspection Reports	Compliant	0
106	Urban Resources	CEMP	Topsoil	9.2.5	Where possible, directly transport topsoil to proposed rehabilitation site immediately following extraction.	After clearing	No topsoil suitable for rehabilitation has been removed	Inspection notes, photos	Included in Site Inspection Reports	Compliant	0
107	Urban Resources	CEMP	Topsoil	9.2.6	Reuse topsoil within 12 months of extraction where possible.	During clearing	Not required	Commencement less than one year	Included in Site Inspection Reports	Compliant	Is this possible given that the topsoil is to be repurposes as fill at the completion of mining - potentially should be revised
108	Urban Resources	CEMP	Topsoil	9.2.7	Dispose of weedy or dieback infested topsoil appropriately	After clearing	Topsoil stored to be blended for development	Inspection notes, photos	Included in Site Inspection Reports	Compliant	0
109	Urban Resources	CEMP	Audit	9.3.1	Monitor clearing to ensure that weed and dieback hygiene is maintained.	Daily during clearing	Clearing in accordance with MP	Records from Urban Resources	Included in Site Inspection Reports	Compliant	0
110	PGV Environmental	CEMP	Audit	9.3.2	Inspect topsoil stockpiles for weed germination	Fortnightly	No germination recorded	Photo during inspection	Included in Site Inspection Reports	Compliant	0
111	City of Wanneroo	CEMP	Statutory	11.2.1	Ensure Mather Reserve is established prior to the commencement of on-site activities.	Prior to clearing	Ceded as Conservation to the Crown January 2018	Letter dated 8 January 2018 reported in 2018-2019 EPBC Compliance Report	Reported	Complete	0
112	Urban Resources	CEMP	Fauna	11.2.2	Display contact information for Wildcare Hotline and fauna handler on the Health, Safety and Environment noticeboard.	Ongoing	Displayed in office	Photo during inspection	Included in Site Inspection Reports	TBD	0
113	Urban Resources	CEMP	Fauna	11.2.3	Inspect site for presence of foraging Carnaby's Black-Cockatoo.	Daily during construction	Construction not yet occurring - sand mining in cleared area	Not required	Included in Site Inspection Reports	Compliant	0
114	Urban Resources	CEMP	Fauna	11.2.4	A qualified fauna handler is to be on-call during all site activities.	Ongoing	TE on call if required	Confirmed during site inspection	Included in Site Inspection Reports	Compliant	0

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115	Urban Resources	CEMP	Fauna	11.2.5	Prohibit pets or domesticated animals onsite.	Ongoing	No pets on site	Confirmed during site inspection	Included in Site Inspection Reports	Compliant	0
116	Urban Resources	CEMP	Fauna	11.2.6	Prohibit personnel feeding or interacting with fauna (native or feral).	Ongoing	No feeding of animals	Confirmed during site inspection	Included in Site Inspection Reports	Compliant	0
117	Urban Resources	CEMP	Fauna	11.2.7	No firearms are permitted on site.	Ongoing	No guns	Confirmed during site inspection	Included in Site Inspection Reports	Compliant	0
118	Urban Resources	CEMP	Fauna	11.2.8	Audit clearing area to ensure that the total extent of Carnaby's Black-Cockatoo habitat lost does not exceed 130.7 ha.	Post Clearing	Current footprint 50ha	Shapefiles and photographs	Included in Site Inspection Reports	Compliant	0
119	Urban Resources	CEMP	Monitoring	11.3.1	Visual inspection of site and boundaries for CBC foraging	Ongoing	There is a supervisor on site at all times and evidence looked for during routine boundary inspections	0	Included in Site Inspection Reports	0	This seems to be potentially unworkable - may look at revising when the CEMP is revised
120	Urban Resources	CEMP	Monitoring	11.3.2	Visual inspection of site and boundaries for injured fauna	Fortnightly	There is a supervisor on site at all times and evidence looked for during routine boundary inspections	Photo during inspection	Included in Site Inspection Reports	Compliant	0
121	City of Wanneroo	CEMP	Survey	12.2.1	Conduct baseline surveys of the site to determine the current level of weed and Phytophthora dieback infestation.	Prior to clearing	Mapping of dieback and weeds done in 2020	Mapping of dieback and weed survey report	Reported in 2019-2020 Compliance Report	Complete	0
122	Environment - City of Wanneroo	CEMP	Weed	12.2.2	Conduct weed control for target species on a seasonal basis as per optimal control for each target species.	Seasonal as per optimal control for each target species for three years	Records received	Records of weed control	Weed control in 2024-2025 Compliance reports	Compliant	Although not clear it seems that this is for Mather Reserve
123	Environment - City of Wanneroo	CEMP	Survey	12.2.3	Conduct follow up weed and Phytophthora dieback infestation surveys of Mather Reserve following the completion of all clearing activities. These surveys will be compared with the original survey.	Completion	Not required at this time - clearing not complete	Mapping of dieback and weeds	Not required	Not required	0
124	Urban Resources	CEMP	Hygiene	12.2.4	Ensure all vehicles, equipment and plant undergo a complete quarantine inspection prior to access to site and are free of plant material and soil.	Ongoing	Hygiene register sighted for clearing works, not required for quarry works	Hygiene register	Included in Site Inspection Reports	Compliant	0
125	Urban Resources	CEMP	Dieback and Weed	12.2.5	Ensure fill, soil and mulch used on site and in landscaping is uncontaminated, and free weeds and disease as specified in the Landfill Waste Classification and Waste Definitions (DOE 1996).	Ongoing	Not required - landscaping not being undertaken	Certification of fill	Not required	Not required	0
126	Environment - City of Wanneroo	CEMP	Weed	12.2.6	Conduct herbicide spraying of weeds along the clearing line and the boundary of Mather Reserve, prior to weeds setting seed.	Seasonal, during construction	Not required at this time - clearing not undertaken	Records of weed control	Not required as clearing along boundary not commenced	Not required	0
127	Environment - City of Wanneroo	CEMP	Weed	12.2.7	Control, with the aim to eradicate, any infestation of Declared Pests or High to Very High priority weeds.	As required	As required	Records of weed control	Not required as clearing along boundary not commenced	Not required	0
128	Urban Resources	CEMP	Hygiene	12.2.8	Transfer salvaged top soil, from good or better quality vegetation to be cleared, to degraded areas following the control of weed species present. Ensure that topsoil for re-use is taken from dieback free areas.	Post-clearing	Not required - current topsoil is from dieback infested area	Mapping of excavation, photos	Not required	Not required	0
129	Urban Resources	CEMP	Topsoil	12.2.9	Locate topsoil and cleared vegetation stockpiles away from areas where runoff from rainfall may occur.	During clearing	Cleared vegetation not in areas of run-off - soil is very permeable so run-off likely to be minimal	Photos	Included in Site Inspection Reports	Compliant	0
130	Urban Resources	CEMP	Weed	12.2.10	Ensure any hydro-mulching used for dust suppression or stabilisation is certified weed free.	Ongoing	No hydromulch used as yet	certification of hydromulch	Not required	Not required	0
131	Urban Resources	CEMP	Hygiene	12.2.11	No movement of soil, equipment or personnel during wet conditions in areas suspected of dieback infestation	Ongoing	TBD	Schedule of works in Mather Reserve	Hygiene protocols being maintained	TBD	This is potentially unworkable as sand mining cannot be suspended due to rain - as the KPIs are written in regards to Mather reserve it should be specified that this refers to Mather reserve
132	Urban Resources	CEMP	Hygiene	12.2.12	No movement of soil, equipment or personnel between dieback free and dieback infested areas without implementing proper hygiene standards	Ongoing	Hygiene protocols followed	Hygiene record sheets	Included in Site Inspection Reports	Compliant	0
133	Urban Resources	CEMP	Monitoring	12.3.1	Visual inspection of stockpiles, landscaping and weed spraying for weeds	Every 3 months	Stockpile not created - first inspection to be undertaken at first site inspection	Photos and inspection report	Included in Site Inspection Reports	Compliant	0

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134	Environment - City of Wanneroo	CEMP	Monitoring	12.3.2	Visual inspection with photographic records of vegetation within Mather Reserve adjacent to the site boundary for signs of dieback	Monthly and then 6 monthly for up to 1 year after completion of construction	TBD	Photos and inspection report	Not required as clearing along boundary not commenced	Not required	0
135	Urban Resources	CEMP	Dust	13.2.1	Develop and implement a site specific dust management plan (DMP) for all stages of the project in accordance with State guidelines (DEC 2011) and including the actions below.	For provision with tender documentation	Dust Management Plan supplied and approved	Dust Management Plan	Not yet reported - to be included in EPBC compliance report	Complete	0
136	Urban Resources	CEMP	Dust	13.2.2	Comply with site specific DMP as required by contractual arrangement with the City.	Ongoing	Dust Management Plan supplied	Dust Management Plan	Included in Site Inspection Reports	Management Actions as per Dust Management Plan	0
137	Urban Resources	CEMP	Dust	13.2.3	Where required, install wind fencing around the perimeter of the site, taking into consideration the use of natural wind fencing (remnant vegetation) as a natural wind barrier.	At the completion of initial vegetation clearing	No wind fencing - dust being adequately controlled	Inspection report when required	Included in Site Inspection Reports	Compliant	0
138	Urban Resources	CEMP	Dust	13.2.4	Earthwork slopes and batters that are subject to water run off or wind erosion are to be stabilised as soon as practicable after completion. Stabilisation must occur within seven days and may include hydro- mulch or another similar stabilisation technique as a temporary measure, but batters and slopes should ultimately be stabilised with mulch and vegetation or hard landscaping.	As required	Not required - no completion areas	Photos and inspection report	Not required	Not required	Noted in the Management Plan approved under the DA that hydromulch is not appropriate to be used on the extracted product
139	Urban Resources	CEMP	Dust	13.2.5	Water trucks are to water down unsealed roads during operation to reduce dust lift.	As required	Wet conditions so not required at this time	Inspection report when required	Included in Site Inspection Reports	Compliant	0
140	Urban Resources	CEMP	Dust	13.2.6	Transport of dust-prone material will be via covered trucks or dampened prior to transport to prevent dust lift off during transport.	During soil transport activities.	Lloads are covered on exit	Inspection report when required	Included in Site Inspection Reports	Compliant	0
141	Urban Resources	CEMP	Dust	13.2.7	Water trucks are to be available at all times during operation to water the site on the observation of dust lift.	As required	TBD - check with UR re water truck availability	Inspection report when required	Included in Site Inspection Reports	Compliant	0
142	Urban Resources	CEMP	Complaints	13.2.8	All complaints regarding dust and erosion are to be recorded within a Complaints Register immediately	As required	Complaints registered on Skytrust - none received to date	Complaints register	Included in Site Inspection Reports	Compliant	0
143	Urban Resources	CEMP	Complaints	13.2.9	All complaints regarding dust and erosion are to be addressed within 24 hours if severe, or within one week for minor complaints.	As required	Actions to address complaints on Skytrust	Complaints register	Included in Site Inspection Reports	Compliant	0
144	Urban Resources	CEMP	Dust	13.2.10	Implement a dust monitoring program that sets thresholds and measures dust deposition at the boundary of the site and Mather Reserve and neighbouring properties.	Prior to the commencement of clearing operations and Ongoing during resource extraction activities	Dust monitoring is by visual inspection at all times and when activities are within 200m of a sensitive receptor	Monitoring records	Included in Site Inspection Reports	Compliant	0
145	PGV Environmental	CEMP	Monitoring	13.3.1	Visual monitoring of wind fences, stockpiles and earthwork batters for erosion	Fortnightly	No erosion noted during site inspection	Photos and inspection report	Included in Site Inspection Reports	Compliant	0
146	PGV Environmental	CEMP	Monitoring	13.3.2	Implement dust monitoring plan check for signs of dust impacting on Mather Reserve.	Fortnightly	No dust being generated due to wet conditions and works distant from Mather Reserve	Photos and inspection report	Included in Site Inspection Reports	Compliant	0
147	Urban Resources	CEMP	Signage	14.2.1	Erect signage to notify public and workers of restricted access for works.	At least 2 weeks prior to construction	Signage noted at end of Mather Drive during 13 July site visit. Two signs were damaged by wind on 26 July and are to be reinstated by 30 July	Photos and inspection report	Included in Site Inspection Reports	Compliant	Perhaps tighten the wording of the management plan to specify construction and extraction
148	Urban Resources	CEMP	Access	14.2.2	Erect fencing around the site perimeter with signage indicating restricted access.	Prior to construction	Felled vegetation used to restrict access	Photos and inspection report	Included in Site Inspection Reports	Compliant	0
149	Environment - City of Wanneroo	CEMP	Access	14.2.3	Install secure fencing around stockpiles and storage areas.	Prior to construction	Secure temporary fencing around compound, fence and limestone barrier to excavation area	Photos and inspection report	Not required as clearing along boundary not commenced	Compliant	0
150	Environment - City of Wanneroo	CEMP	Access	14.2.4	Ensure the boundary to Mather Reserve is clearly marked and fenced.	Prior to working on site	Area demarcated and fenced with rural style fencing	Aerial photos, onground photos and inspection report	Complete and reported in 2019-2020 Compliance Report	Complete	0

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151	City of Wanneroo	CEMP	Access	14.2.5	Ensure there is no access to Mather Reserve by unauthorised persons.	Ongoing	No access in 2021/2022 reporting period	Photos and inspection report	No records as reported in compliance reports.	TBD	0
152	Urban Resources	CEMP	Traffic	14.2.6	Discuss with City of Wanneroo the details of haulage routes for large equipment.	Prior to construction	Not required	Development has not commenced	Not required	Not required	0
153	Urban Resources	CEMP	Traffic	14.2.7	Ensure staff, vendors and related delivery drivers are aware of the designated routes for haulage and construction related traffic and the need to use them.	Ongoing	Not required	Development has not commenced	Not required	Not required	0
154	Urban Resources	CEMP	Signage	14.2.8	Install signs indicating speed limits and advice on traffic hazards in visible areas.	As required	Not required	Development has not commenced	Not required	Not required	0
155	Urban Resources	CEMP	Complaints	14.2.9	Record all complaints relating to access matters in a Complaints Register.	Ongoing	Complaints recorded in Skytrust - none recorded	Complaints register	Included in Site Inspection Reports	TBD	0
156	PGV Environmental	CEMP	Monitoring	14.3.1	Visual inspection of site boundary for evidence of access to Mather Reserve	Minimum of Monthly	TBD	Photos and inspection report	Included in Site Inspection Reports	Compliant	0
157	PGV Environmental	CEMP	Audit	14.3.2	Investigation of complaints related to access	Minimum of Monthly	TBD	Photos and inspection report	Included in Site Inspection Reports	Compliant	0
158	PGV Environmental	CEMP	Monitoring	14.3.3	Visual inspection of Mather Reserve boundary	Minimum of Monthly	TBD	Photos and inspection report	Included in Site Inspection Reports	Compliant	0
159	City of Wanneroo	CAMP	Access	2.1	Mather Reserve is to be surveyed and fenced prior to the commencement of clearing activities of the Development Area.	Prior to clearing	Complete	Completed in 2017	Reported in 2018 Compliance Report	Complete	0
160	City of Wanneroo	CAMP	Statutory	2.2	Mather Reserve is to be consolidated into a single block of land. The consolidated block is then to become a dedicated conservation reserve, or a conservation covenant is to be placed on the freehold title.	Within 2 years of the commencement of the action	Complete	Reserve number 53163 Confirmed in Crown Land Title for the purpose of Conservation, registered 9/4/2019 (19/179101)	Reported in 2018 Compliance Report	Complete	0
161	City of Wanneroo	CAMP	Access	2.3	Mary Street Reserve to be fenced prior to rehabilitation and management activities	Within 2 years of the commencement of the action	Complete	Completed - surveyed in 2013 (13/147422) and installed in 2014	Reported in 2018 Compliance Report	Complete	0
162	Environment - City of Wanneroo	CAMP	Statutory	2.4	The Mary Street Reserve is to be rezoned to reflect its use as conservation zone or equivalent	Within 2 years of the commencement of the action	Zoning is 'Parks and Recreation' under MRS and LPS	Zoning mapping	Complete	Complete	0
163	Environment - City of Wanneroo	CAMP	Access	2.5	Maintain opening in fence for access by pedestrians and conservation management personnel	Ongoing	Opening in fence maintained. Pedestrian access to be installed when the subdivision occurs to ensure unauthorised access does not occur.	Photos and inspection report	Reported in Compliance reports	Complaint	0
164	City of Wanneroo	CAMP	Rubbish	2.6	Remove any dumped rubbish prior to erecting fencing	Prior to fencing	Rubbish was removed	19/184497 - Additional Rubbish removed in this reporting period - Invoice # 11156, May 2019, rubbish removal within eastern side of Mather Reserve. 18/542543, Invoice 70938 December 2018, rubbish removal from Mather St reserve	Reported in 2018 compliance report.	Complete	0
165	Environment - City of Wanneroo	CAMP	Access	2.7	Formalise vehicle access tracks with crushed limestone	Following establishment of firebreaks.	Firebreaks are installed	Photos and invoices as referenced in compliance report	Mary St Reported in 2018-2019 Compliance report, Partial Mather in 2019-2020 Compliance Report remainder in 2021 report, additional works in 2024-2025	Compliant	0
166	Environment - City of Wanneroo	CAMP	Access	2.8	Retain historical tracks within Mather Reserve to divide the area into fire manageable cells as required by DFES	Ongoing	Cells maintained	Aerial	reported in 2024-2025 Compliance	Complaint	0
167	Environment - City of Wanneroo	CAMP	Monitoring	3.1	The fencing around the Offset Sites is to be checked annually for damage.	Ongoing	Annual checks being done by City	Notes of routine inspections	Reported in compliance reports	Complaint	0
168	Environment - City of Wanneroo	CAMP	Monitoring	3.2	Ongoing maintenance of the firebreak inside the fencing	Ongoing	Annual checks being done by City	Notes of routine inspections	Reported in compliance reports	Complaint	0
169	Environment - City of Wanneroo	CAMP	Survey	2.1	Conduct baseline surveys of Mather Reserve and Mary Street Reserve to determine the current level of weed and Phytophthora dieback infestation.	Prior to clearing	Dieback and weeds completed in 2020	Survey reports	Included in 2020-2021 report	Complete	0

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170	Environment - City of Wanneroo	CAMP	Weed	2.2	Conduct targeted weed control in Mather Reserve and Mary Street Reserve as per findings of baseline surveys.	Seasonal as per optimal control for each target species for three years	Spraying undertaken each year - spring 2022 records to be added	Records of spraying	Reported in Compliance reports and records maintained	Complaint	0
171	Environment - City of Wanneroo	CAMP	Weed	2.3	Develop an ongoing weed management program to be implemented by the City's internal Maintenance Department to control new weed populations.	Following the targeted weed control program	Weed control program being undertaken	Weed control contract	Weed control reported in EPBC compliance report	Complaint	0
172	Environment - City of Wanneroo	CAMP	Survey	2.4	Conduct follow up weed and Phytophthora dieback infestation surveys. These surveys will be compared with the original survey.	Every 5 years	Not required until 2025	Dieback and weed report	Not required	Not required	0
173	Environment - City of Wanneroo	CAMP	Weed	2.5	Conduct herbicide spraying of weeds along the clearing line and the boundary of Mather Reserve prior to weeds setting seed.	As required by monitoring results	Weed control being undertaken - weed management plan to be provided	Records of spraying	Spraying recorded in EPBC Compliance reports	Compliant	0
174	Environment - City of Wanneroo	CAMP	Weed	2.6	Control, with the aim to eradicate, any infestation of Declared Pests and High to Very High priority weeds.	As required by monitoring results	Weed control being undertaken - weed management plan to be provided	Records of spraying - latest from August 2024	Spraying recorded in EPBC Compliance reports	Compliant	0
175	Environment - City of Wanneroo	CAMP	Access	2.7	Formalise vehicle access tracks with crushed limestone	Following establishment of firebreaks.	Access tracks formalised - proposal to improve tracks, however with turnaround point mey require celaring - under investigation	Photos and inspection report	Firebreaks reported in 2019-2021 and minor repairs in the 2022 Compliance report. Limestone tracks formalised in 2024-2025	Compliant	0
176	Environment - City of Wanneroo	CAMP	Monitoring	3.1	Visual inspection of bushland and rehabilitation areas for weeds, pests	Annually	City undertaking checks. No weeds present on the site during a site inspection on 4 July 2023.	Photos and inspection report	Inspection recorded in Compliance Reports	Compliant	0
177	Environment - City of Wanneroo	CAMP	Monitoring	3.2	Visual inspection with photographic records of vegetation adjacent to the site boundary for dieback	Every 5 years	No dieback evident from inspection reports	Photos and inspection report	Inspection recorded in Compliance Reports	Compliant	0
178	Environment - City of Wanneroo	CAMP	Dust	2.1	Develop and implement the site specific dust management plan (DMP) for all stages of the Development Area in accordance with State guidelines (DEC 2011) and as outlined in the approved Construction Environmental Management Plan (CEMP).	For provision with tender documentation for the Development Area	Development has not commenced	Dust Management Plan	Not yet reported - not commenced in 2024-2025 reporting period	Not required	Same requirement as CEMP - perhaps remove from the CAMP as it pertains to the development - should be kept to the CEMP to decrease reporting requirements
179	Environment - City of Wanneroo	CAMP	Access	2.2	Upgrade sand tracks to formalised gravel tracks	Complete, ongoing maintenance	In maintenance	Maintenance logs	Complete as per approved updated CAMP. Maintenance undertaken in 2024-2025 compliance period	Compliant	Limestone tracks installed
180	Environment - City of Wanneroo	CAMP	Access	2.3	Upgrade tracks to include berms to mitigate erosion and ensure that the drainage on the site is not altered	Complete, ongoing maintenance	In maintenance	Maintenance logs	Complete as per approved updated CAMP. Maintenance reported in Compliance reports.	Complaint	0
181	Environment - City of Wanneroo	CAMP	Monitoring	3.1	Visual monitoring of paths and tracks - Signs of erosion, bank slumping or the formation of rills and gullies.	Fortnightly	Access track monitored and moinor repairs undertaken in 2022. Limestone tracks installed 2024	Photos and inspection report	Reported in 2024-2025 Complaince reports	Compliant	Suggest the timing is changed to after large rain events
182	Environment - City of Wanneroo	CAMP	Monitoring	3.2	Implement dust monitoring plan - Dust lift off and signs of dust deposition within Mather Reserve	Fortnightly	Not required	Not required	Will need to ensure this requirement forms part of the Dust Managemnt Plan that will be required at subdivision	Not required	Not sure where the Dust Monitoring Plan comes into it - perhaps could be updated to Dust Monitoring Program and included in visual inspections
183	Environment - City of Wanneroo	CAMP	Pest fauna	2.1	Conduct baseline surveys of the Offset Sites to determine the current presence of pest fauna. Implement pest fauna control program on the basis of survey report findings and commitments in this plan.	Prior to clearing	Completed	Consultant report	Reported in 2018-2019 and 2019-2020 Compliance Report	Complete	0
184	Environment - City of Wanneroo	CAMP	Pest fauna	3.1	Visual inspection of pest fauna populations	Every 3 months for the first two years then annually.	Two years since baseline so now to be done annually	Photos and inspection report	Pest fauna management undertaken in 2023 as per management report	Compliant	0
185	Environment - City of Wanneroo	CAMP	Statutory	2.1	Ensure Conservation Area established prior to the commencement of construction activities in the Development Area.	Prior to clearing	Ceded as Conservation to the Crown January 2018	Letter dated 8 January 2018 reported in 2018-2019 EPBC Compliance Report	0	Complete	0
186	Environment - City of Wanneroo	CAMP	Monitoring	2.2	Establish monitoring quadrats within Carnaby's Cockatoo habitat at Mather Reserve and Mary Street Reserve.	Prior to clearing	Set up by Terrratree in 2016 (6 quadrats in Mather Reserve and 2 in Lot 24 Mary Street), monitored in 2020, 2022 and 2024	Report recived in last compliance period	Monitoring report included in 2024-2025 Monitoring Report	Compliant	0

No	Current Responsibility	Approval/ MP	Theme	Condition/ Management Action	Requirement	Timing	Current Status	Evidence/Document Reference	Reporting Status	Compliance Status	Notes
187	Environment - City of Wanneroo	CAMP	Monitoring	3.1	Visual inspection of Carnaby's Black Cockatoo habitat for clearing or damage	Annually	Black Cockatoo habitat has been monitored	Photos and inspection report	Inspection report included in 2024-2025 compliance reports	Compliant	0
188	Environment - City of Wanneroo	CAMP	Monitoring	3.2	Monitor vegetation in permanent quadrats for vegetation condition	Every two years	Monitored in 2022 and reported in 2023	Photos and inspection report	Inspection report included in 2024-2025 compliance reports	Compliant	0
189	Environment - City of Wanneroo	CAMP	Monitoring	3.3	Record evidence of pest fauna	Annually	Inspection complete and subsequently management undertaken	Photos and inspection report	Pest fauna management undertaken in 2024-2025 as per management report	Compliant	0
190	Environment - City of Wanneroo	CAMP	Revegetation	2.1	Facilitate regrowth of degraded areas in Mather Reserve and improve overall vegetation quality within Mary Street Reserve through a program of weed and rabbit control and by direct seeding or planting suitable seedlings	Following approval of this plan	Some rehabilitation undertaken - the rehabilitation was establishing but declined due to hot and dry 2023-2024 summer period. Recovering with additional planting in 2024-2025 Compliance Period	Records and photos of Degraded areas	Photo	Complaint	0
191	Environment - City of Wanneroo	CAMP	Seed collection	2.3	Collect seed from the Development Area prior to clearing and use in Offset Sites or landscaping at other City of Wanneroo locations, focusing on identified foraging cockatoo habitat species (see Table 14)	Prior to commencing clearing	Seed collection has been undertaken - additional collections may be made prior to developmetn of Lot 9001	Seed collection records/ seed bank statements	Reported as in progress in Compliance report	Compliant	Also in the CEMP
192	Environment - City of Wanneroo	CAMP	Weed	2.4	Control, with the aim to eradicate, any infestation of Declared Pests and High to Very High priority weeds in the Offset Sites.	Annually	No WoNS or Declared pests were specifically targeted in 2023	Weed control statements	Reported as in progress in Compliance report	Compliant	0
193	Environment - City of Wanneroo	CAMP	Revegetation	2.5	Mulch site vegetation from areas to be cleared and include in topsoil mix. This will retain moisture and add rhizome material to the soil, to encourage regeneration of species difficult to grow from seed.	Prior to clearing	Mulch used in rehab areas dieback free - no mulch has been generated on the developmetn site	Not required	Not required	Not required	0
194	Environment - City of Wanneroo	CAMP	Topsoil	2.6	Transfer salvaged topsoil, from good or better quality vegetation to be cleared, for use in landscaping and revegetation projects within the City of Wanneroo. Ensure that topsoil is taken from dieback free areas. Transfer soil during early winter rains to control dust and maximise seed germination.	Transfer soil during early rains – May- June	Salvaged topsoil has not been required to date	Soil transfer records	Not required	Not required	0
195	Environment - City of Wanneroo	CAMP	Monitoring	3.1	Monitoring of species diversity and density in quadrats	Every two years	Set up by Terrratree in 2016 (6 quadrats in Mather Reserve and 2 in Lot 24 Mary Street), monitored in 2020, 2022 and 2024	Monitoring report	Reported in 2024-2025 compliance period	Compliant	Repeated requirement to monitor quadrats but every two years
196	Environment - City of Wanneroo	CAMP	Monitoring	3.2	Visual inspection with photographic records of vegetation adjacent to the site boundary.	5 years after topsoil transfer	No topsoil transfer	Not required	Not required	Not required	0
197	Environment - City of Wanneroo	CAMP	Monitoring	3.3	Assessment of species composition, plant density and plant health	Every two years	Set up by Terrratree in 2016 (6 quadrats in Mather Reserve and 2 in Lot 24 Mary Street), monitored in 2020, 2022 and 2024	Monitoring report	Reported in 2024-2025 compliance period	Compliant	Repeated requirement to monitor quadrats but every two years
198	Environment - City of Wanneroo	CAMP	Monitoring	3.4	Monitoring of overall vegetation classification	Monitor two years after approval of this plan and every five years thereafter to ensure vegetation condition is maintained or improving	Set up by Terrratree in 2016 (6 quadrats in Mather Reserve and 2 in Lot 24 Mary Street), monitored in 2020, 2022 and 2024	Monitoring report	Reported in 2024-2025 compliance period	Compliant	Repeated requirement to monitor quadrats but varied schedule
199	Environment - City of Wanneroo	CAMP	Monitoring	3.5	Monitoring of overall foraging habitat value	Monitor two years after approval of this plan and every five years thereafter to ensure foraging value is improving	Set up by Terrratree in 2016 (6 quadrats in Mather Reserve and 2 in Lot 24 Mary Street), monitored in 2020, 2022 and 2024	Monitoring report	Reported in 2024-2025 compliance period	Compliant	Repeated requirement to monitor quadrats but varied schedule
200	Urban Resources	Management Plan	Operations	5.2	Excavation to be in accordance with the management plan	Ongoing	Excavation in Stage 3 of management plan	Photos and review of excavation to date	Included in Site Inspection Reports	Compliant	0
201	Urban Resources	Management Plan	Operations	5.3	Pit design and staging to be in accordance with management Plan	Ongoing	Contours created to surveyed final levels as per management plan	Photos and review of excavation to date	Included in Site Inspection Reports	Compliant - mapping of current contours pending	0
202	Urban Resources	Management Plan	Operations	5.4	Plant and equipment	Ongoing	Plant and equipment as per management plan	Photos and review of plant on site	Included in Site Inspection Reports	Compliant	0

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203	Urban Resources	Management Plan	Operations	5.5	Hours of operation to be in accordance with DA	Ongoing	Compliant - operations not on Sundays	As per Condition 12 of the DA	Included in Site Inspection Reports	Compliant	0
204	Urban Resources	Management Plan	Operations	5.6	Traffic management and wheel wash facility	Ongoing	Wheelwash facility not installed - will be installed when permanent site office established. Traffic management as per plan	Photos and review of traffic routes - in conjunction with the Traffic Impact	Included in Site Inspection Reports	Partially compliant	0
205	Urban Resources	Management Plan	Operations	5.7	Water	Ongoing	Water usage currently through metered water corporation facilities, Installation of the bore is pending	Records of water usage	Included in Site Inspection Reports	Compliant	0
206	Urban Resources	Management Plan	Operations	5.9	Safety/bushfire management	Ongoing	Skytrust records all incidents, Actions in accordance with bushfire management plan detailed in BMP section, site specific induction	Site specific risk assessment, incident/hazard registers, induction records, signage, bushfire management - Management Plan	Included in Site Inspection Reports	Compliant	0
207	Urban Resources	Management Plan	Operations	6.1	Training and competency	Ongoing	Site specific induction sighted and Urban resources online general induction	Induction and record of toolbox meetings	Included in Site Inspection Reports	Compliant	0
208	Urban Resources	Management Plan	Operations	6.2	Incident management	When required	Incidents recorded in Skytrust - no incidents reported	Incident register and investigation reports, if any	Included in Site Inspection Reports	Compliant	0
209	Urban Resources	Management Plan	Operations	6.3	Complaints reporting	When required	Complaints recorded in Skytrust - no complaints reported	Complaints register	Included in Site Inspection Reports	Compliant	0
210	Urban Resources	Management Plan	Operations	6.4	Corrective/Preventive Actions	When required	Actions recorded in Skytrust - not required	Documented procedures as per UR-PRO-003 CAR Procedure	Included in Site Inspection Reports	Not required	0
211	Urban Resources	Management Plan	Operations	7	Temporary closure	If required	Temporary closure not required	Not required	Not required	Not required	0
212	Urban Resources	Management Plan	CEMP	10.2	Comply with the CEMP	Ongoing	As per CEMP assessment	As per CEMP assessment	As per CEMP assessment	As per CEMP assessment	0
213	Urban Resources	Management Plan	Topsoil	10.2	Demarcate and classify any significant topsoil, weed and dieback management boundaries to enable them to be cleared separately.	During clearing	Dieback free area demarcated prior to clearing, felled vegetation used as barrier	0	Included in Site Inspection Reports	Compliant	0
214	Urban Resources	Management Plan	Operations	10.2	Induct on site staff.	Ongoing	Site induction provided and all staff inducted	Induction records showing environmental management	Included in Site Inspection Reports	Compliant	0
215	Urban Resources	Management Plan	Seed collection	10.2	To enable revegetation at offsite locations, the CoW will be informed of the next stage of clearing to be performed and the timing to allow time for the CoW to collect seeds from areas ahead of clearing if appropriate.	Prior to clearing	CoW advised of clearing	Record of communication	Included in Site Inspection Reports	Compliant	0
216	Urban Resources	Management Plan	Access	10.2	To maintain vegetation in the best quality ahead of clearing, and to comply with the requirements of the Clearing Permit, ensure no new informal tracks arise and all vehicle and personnel movement is limited to the approved project boundary.	Ongoing	Some illegal access - no sign of tracks forming yet. Existing tracks have been blocked using soil/boulders/ vegetation to prevent access	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
217	Urban Resources	Management Plan	Fauna	10.2	Prior to clearing the CoW will be informed of any significant habitat materials that the CoW may be able to use in the conservation areas such as logs, including all with hollows, for use as habitat landscaping and revegetation if required for on site for safety or for offsite rehabilitation by the CoW.	During clearing	No hollows suitable for the creation of nesting sites for Black Cockatoos. All material to be mulched as per request of the City	Correspondence	Included in Site Inspection Reports	Compliant	0

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218	Urban Resources	Management Plan	Cleared vegetation	10.2	All cleared vegetation and mulch will be stored separately into various health categories in the locations outlined on the staging plans. Mulch will either be used on-site (for stabilisation) or offsite as required through discussions with the CoW.	During clearing	Vegetation stored in demarcated areas of Dieback free and Uninterpretable. Vegetation currently being used as bunds	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
219	Urban Resources	Management Plan	Clearing	10.2	The land will be cleared using earthmoving equipment by the mining operator and will largely be cleared using a front end loader and water cart to allay the dust as required.	During clearing	No water cart required due to wet weather, however present on site and front end loader used	Potentially photos in fauna report and machinery noted during initial site meeting	Included in Site Inspection Reports	Compliant	0
220	Urban Resources	Management Plan	Cleared vegetation	10.2	The vegetation will be pushed to the edges of the disturbance area or into piles for mulching for brushing or use in rehabilitation. If not required for immediate rehabilitation, the material will be mulched later use.	During clearing	Piles of vegetation noted at initial site visit	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
221	Urban Resources	Management Plan	Weed	12.1	Weed management including Soil Quality Classification, Treatment of Recovered Soil, Ongoing Weed Management and Weed Treatment	Ongoing	To be in accordance with a Weed and Dieback Management Plan	Hygiene management plan complete - auditing against measures discuss under that management plan	Included in Site Inspection Reports	TBD	0
222	Urban Resources	Management Plan	Fauna	13	Fauna management as per the requirements under the CEMP	Ongoing	As per CEMP assessment	As per CEMP assessment	As per CEMP assessment	As per CEMP assessment	0
223	Urban Resources	Management Plan	Dust	14 - Clearing	Wind fencing on the perimeter	Ongoing	Dust contolled at present	photos/inspection reports, complaints register	If required to be included in annual report	Not required	0
224	Urban Resources	Management Plan	Dust	14 - Clearing	Undertaking removal of topsoil in wet conditions where possible	Ongoing	Topsoil removed in wet conditions	as above	as above	Compliant	0
225	Urban Resources	Management Plan	Dust	14 - Clearing	Managing of soil and vegetation in perimeter bunds to be stabilised	If required	vegetation used in perimeter bunding	as above	as above	Complaint	0
226	Urban Resources	Management Plan	Dust	14 - Clearing	Covering any loads required to transfer topsoil	If required	No loads of topsoil transferred	as above	as above	Not required	0
227	Urban Resources	Management Plan	Dust	14 - Clearing	Ensure bunds and stockpiles are stabilised	If required	Bunds and stockpiles currently stable due to wet conditions	as above	as above	Compliant	0
228	Urban Resources	Management Plan	Dust	14 - Clearing	Presence of a water truck during clearing if dust a risk	If required	Water truck present on site	as above	as above	Compliant	0
229	Urban Resources	Management Plan	Dust	14 - Clearing	Cessation of activities if dust cannot be mitigated to within compliance limits	If required	Not required due to wet conditions and no dust being generated	as above	as above	Complaint	0
230	Urban Resources	Management Plan	Dust	14 - Excavation	Excavation to occur at base of pit	Ongoing	Excavation from pit as per site visit 13 July	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
231	Urban Resources	Management Plan	Dust	14 - Excavation	Retention of the 20m vegetated buffer	Ongoing	20m vegetated buffer marked on site by flagging tape and retained	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
232	Urban Resources	Management Plan	Dust	14 - Excavation	Wind fencing if excavation is within 200m of perimeter	If required	Not required	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
233	Urban Resources	Management Plan	Dust	14 - Excavation	Presence of a water truck during excavation if dust a risk	If required	Very wet during operation stage and therefore not likely to be required to be actioned at this time	photos/inspection reports, complaints register	Included in Site Inspection Reports	Not required	0
234	Urban Resources	Management Plan	Dust	14 - Excavation	Water truck to be used on roads and hardstand	If required	Water truck not required due to wet conditions	photos/inspection reports, complaints register	Included in Site Inspection Reports	Complaint	0
235	Urban Resources	Management Plan	Dust	14 - Processing	Water sprays to be used while loading if there is a risk of dust	If required	Not required due to wet conditions and no dust being generated	photos/inspection reports, complaints register	Included in Site Inspection Reports	Complaint	0
236	Urban Resources	Management Plan	Dust	14 - Processing	Crushing and screening plant will be installed with shields, curtains, covered or shielded conveyors and hoppers as appropriate.	If required	Not required due to wet conditions and no dust being generated	photos/inspection reports, complaints register	Included in Site Inspection Reports	Complaint	0
237	Urban Resources	Management Plan	Dust	14 - Processing	Cessation of activities if dust cannot be mitigated to within compliance limits	If required	Not required due to wet conditions and no dust being generated	photos/inspection reports, complaints register	Included in Site Inspection Reports	Complaint	0
238	Urban Resources	Management Plan	Dust	14 - Stockpiles	Stockpiles to be located on the floor of the pit	If required	Stockpiles located on floor of pit	photos/inspection reports, complaints register	Included in Site Inspection Reports	Complaint	0
239	Urban Resources	Management Plan	Dust	14 - Transport	Internal roads to be dust managed	If required	Not required due to wet conditions and no dust being generated	photos/inspection reports, complaints register	Included in Site Inspection Reports	as above	0
240	Urban Resources	Management Plan	Dust	14 - Transport	All loads to be covered	Ongoing	All loads covered when leaving site as noted during site visit on 13 July 2021	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
241	Urban Resources	Management Plan	Dust	14 - Transport	Maintain the crossovers free from potholes and spilt product	Ongoing	No spilt product and main part of crossover intact - some potholes at edges	Photos/inspection report	Included in Site Inspection Reports	Compliant	0

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242	Urban Resources	Management Plan	Dust	14 - Erosion Management	The final machinery run to be along the contour and not downslope	Ongoing	Not required - final run not completed	Photos/inspection report	Included in Site Inspection Reports	Not required	0
243	Urban Resources	Management Plan	Dust	14 - Erosion Management	If wind erosion and soil stability become an issue measures will be taken to stabilise the soils. These could include but not be limited to fence wind breaks or spray mulching	If required	Very wet during operation stage and therefore not likely to be required to be actioned at this time	photos/inspection reports, complaints register	Included in Site Inspection Reports	Not required	0
244	Urban Resources	Management Plan	Dust	14 - Mud management	Wheelwash to be installed and maintained at entrance	Ongoing	Wheel wash facility not installed	Photos/inspection report	Included in Site Inspection Reports	Non-compliance	Noted that wheelwash will be installed once the permanent site compound is established
245	Urban Resources	Management Plan	Dust	14 - Monitoring	Dust monitoring to be visual monitoring at all times and visible dust to be the trigger for remedial action	Ongoing	Very wet during operation stage and therefore not likely to be required to be actioned at this time	photos/inspection reports, complaints register	Included in Site Inspection Reports	Not required	0
246	Urban Resources	Management Plan	Dust	14 - Monitoring	•Install dust monitoring stations at the key locations of the northern boundary and southern and eastern boundaries or in vegetation ahead of excavation. The monitors are to be static monitors that will continuously monitor the amount of dust generation	Ongoing	Dust monitors not installed - excavation not in key locations	Photos, Certificates of analysis	Included in Site Inspection Reports	Not required	Management plan not clear at which stage of excavation monitors are to be installed
247	Urban Resources	Management Plan	Noise	15	Noise management	Ongoing	Noise in accordance with guidelines - no complaints	Photos/inspection report	Included in Site Inspection Reports	Complaint	0
248	Urban Resources	Management Plan	Access	16	Site access including the requirements for fencing and signage	Ongoing	Signage installed, however damaging winds removed 2 to be reinstalled	Photos/inspection report	Included in Site Inspection Reports	Complaint	0
249	Urban Resources	Management Plan	Contamination	17	Rubbish generated will be recycled wherever possible and periodically disposed of at an approved landfill site or other suitable site. Any illegally dumped materials will be removed promptly to an approved landfill or other suitable site, in accordance with the Environmental Protection Act 1986.	Ongoing	No rubbish other than small amount of household waste being generated and contained	Records of rubbish removal	Included in Site Inspection Reports	Compliant	0
250	Urban Resources	Management Plan	Contamination	17	Refuelling is carried out using mobile tankers. This will normally take place on the floor of the pit or designated area where any spills will be contained.	Ongoing	No designated area as yet - will be established in excavated area once extraction complete	Photos/inspection report of refuelling	Included in Site Inspection Reports	Compliant	0
251	Urban Resources	Management Plan	Contamination	17	The CoW will be notified of any fuel or oil spills and the spill protocol used	Ongoing	No spills recorded on Skytrust	Correspondence if required and any evidence of a spill that hasn't been reported	Included in Site Inspection Reports	Compliant	0
252	Urban Resources	Management Plan	Contamination	17	Any illegally dumped materials are to be removed promptly to an approved landfill or other suitable site, depending on the nature of the material. Potential asbestos on the site	Ongoing	Fly tipping report submitted, removal yet to be completed	Removal records if required	Included in Site Inspection Reports	Pending	0
253	Urban Resources	Management Plan	Contamination	18	Re fuelling and maintenance will be carried out in accordance with the DWER Water Quality Protection Guidelines.	Ongoing	Fuel area not established - all activities in accordance with guidance	Photo of refuelling area	Included in Site Inspection Reports	Compliant	0
254	Urban Resources	Management Plan	Contamination	18	Spill kit containing absorbent granules will be located on site for emergency use for minor drips during refuelling. Procedures for spillage to be employed	Ongoing	Spill kit available on site, no drips recorded	Sight spill kit, incident reporting	Included in Site Inspection Reports	Compliant	0
255	Urban Resources	Management Plan	Contamination	18	No potential chemical pollutants, fuel or oils will be stored on site. Minor servicing will be conducted onsite by mobile service vehicles and all lubricant wastes transferred by vacuum pumps to a storage tank on the service vehicle and recycled in a hardstand area with spill prevention practices in place.	Ongoing	Fuel temporarily stored on site to access equipment that cannot be accessed by fuelling trucks until refuelling area established	Site inspection	Included in Site Inspection Reports	Non-compliance	Note that when refuelling area established fuel will be removed
256	Urban Resources	Management Plan	Contamination	18	There will be no workshop or permanent service facilities, all major servicing is conducted off site.	Ongoing	No workshop located on site - all servicing done in facility in Bibra Lake	Site inspection	Included in Site Inspection Reports	Compliant	0

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257	Urban Resources	Management Plan	Contamination	18	Waste oil and other fluids derived from the routine maintenance of mobile machinery will be transported off site and disposed of at an approved landfill site. Grease canisters, fuel filters, oil filters and top-up oils will be stored in appropriate containers (e.g. bunded containers) protected from the weather, in a shed or brought to the site as required.	Ongoing	No waste oil or other products noted on site	Site inspection	Included in Site Inspection Reports	Compliant	0
258	Urban Resources	Management Plan	Contamination	18	Regular inspections and maintenance of fuel, oil and hydraulic fluids in storages and lines will be carried out for wear or faults in an appropriate location where spills can be prevented with spill controls in place e.g. work trays, hardstand area, containment.	Ongoing	All equipment maintained	Site inspection	Included in Site Inspection Reports	Compliant	0
259	Urban Resources	Management Plan	Contamination	18	The site will be maintained in a tidy manner by removing all rubbish regularly offsite.	Ongoing	Site in tidy condition	Site inspection	Included in Site Inspection Reports	Compliant	0
260	Urban Resources	Management Plan	Contamination	18	Oil, Fuel and Chemical Spill Control & Clean Up will be managed in accordance with UR EWP013.	Ongoing	No spills recorded in Skytrust	Site inspection	Included in Site Inspection Reports	Compliant	0
261	Urban Resources	Management Plan	Contamination	19	A serviced portable toilet is proposed to be in place while the site is operating. Serviced means they are pumped out by a licensed contractor.	Ongoing	Portable toilet installed in site compound	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
262	Urban Resources	Management Plan	Contamination	19	Wastes generated will be recycled wherever possible and periodically disposed of at an approved landfill site.	Ongoing	Minimal waste generated - restricted to household waste	Records of waste removal	Included in Site Inspection Reports	Compliant	0
263	Urban Resources	Management Plan	Contamination	19	Any illegally dumped materials are to be removed promptly to an approved waste disposal site, depending on the nature of the material. There appears to be a couple of small dumps of asbestos fencing near Mather Drive. This will be removed by a licensed contractor to an approved waste disposal site and in accordance with EP Act (1986) and controlled waste legislation.	Ongoing	Fly tipping report done	Records of waste removal	Included in Site Inspection Reports	Pending	0
264	Urban Resources	Management Plan	Contamination	19	The site will be maintained in a tidy manner by removing all rubbish regularly offsite.	Ongoing	Site clean and tidy on inspection 13 July and 27 July	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
265	Urban Resources	Management Plan	Operations	21	A 20 metre strip of vegetation will be retained around the road perimeter of the site and retained until the last phase of extraction and bulk earthworks.	Ongoing	20m strip flagged and retained	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
266	Urban Resources	Management Plan	Operations	21	The treed perimeter buffer will be maintained as the faces move outwards to the edges which will maximise screening and visual management.	When excavation is near perimeter	Not required - excavation is not near a boundary	Photos/inspection report	Not required	Not required	0
267	Urban Resources	Management Plan	Operations	21	The quarry is to be located behind natural barriers and perimeter bunding of the pit and the intervening trees. The perimeter bunds are to be formed from topsoil and overburden.	When excavation is near perimeter	Not required - excavation is not near a boundary	Photos/inspection report	Not required	Not required	0
268	Urban Resources	Management Plan	Operations	21	Excavation is to occur from the floor of the pit below natural ground level. Repeated requirement from Dust	Ongoing	Excavation from pit	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
269	Urban Resources	Management Plan	Operations	21	The faces are to be orientated to minimise external visual exposure, working from the centre of each stage outwards towards the perimeter of the pit.	Ongoing	Excavation from pit	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
270	Urban Resources	Management Plan	Operations	21	The haul and access road are to be on the floor of the pit, at low elevation and truck movements are not to be visible.	Ongoing	Access road is Mather Drive - truck movements masked by existing vegetation	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
271	Urban Resources	Management Plan	Operations	21	Overburden and interburden dumps are pushed into positions where they will form screening barriers.	Ongoing	Barriers have been installed	Photos/inspection report	Included in Site Inspection Reports	Compliant	0

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272	Urban Resources	Management Plan	Operations	21	Progressive rehabilitation of all completed, excavated, or disturbed areas in the centre of the pit is proposed when sufficient ground is available.	Not required	Not required	Not required	Included in Site Inspection Reports	Not required	0
273	Urban Resources	Management Plan	Operations	22	Closure requirements	At completion	Not required	Not required	Included in Site Inspection Reports	Not required	0
274	Urban Resources	Native Vertebrate Fauna Management Plan	Fauna	All	Trapping program to be implemented during clearing	Prior to and during clearing	Program undertaken for clearing to date	Trapping reports as per 2022-2023 complaince report	Included in Site Inspection Reports	Compliant	0
275	Urban Resources	Transport Management Plan	Operations	8	Incident reporting	Ongoing	No incidents as recorded on Skytrust	Incident register	Included in Site Inspection Reports	Compliant	0
276	Urban Resources	Transport Management Plan	Operations	8	Incidents/hazards to be reported	Ongoing	No incidents as recorded on Skytrust	Inspection report	Included in Site Inspection Reports	Compliant	0
277	Urban Resources	Topsoil Management Plan	Dieback	5	Re-iteration of management actions as per the CEMP sections 9.2 and 9.3	Ongoing	Varied - reported through CEMP Actions	Evidence as per CEMP Actions	Included in Site Inspection Reports	Compliant	0
278	Urban Resources	Topsoil Management Plan	Dieback	5	The topsoil from excluded areas will either be: 1. Screened and blended with limestone and sand for use as backfill in the areas of the site that need to be raised. 2. Placed in the northern batter which has space for 47000m3 of topsoil if progressively over excavated.	Ongoing	Topsoil is from an 'excluded' area in current stage - Northern batter not yet constructed	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
279	Urban Resources	Topsoil Management Plan	Topsoil	5	The topsoil will initially be used as noise bunds, mainly along the southern and eastern boundary of Stage 1 and 2. If not required for noise bunds the topsoil will be stockpiled as close to the area it will be reused in, as possible. The blending of material with sandy limestone for backfill will create a suitable backfill material and will be independently certified	Ongoing	Topsoil forming bund	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
280	Urban Resources	Topsoil Management Plan	Dieback	7	Therefore, the following recommendations were made: • Provide Green Card training to key personnel to ensure compliance with the Dieback management strategy. • Prevent access to low lying areas. • Provide clear instruction to staff and contractors about hygiene requirements when entering protectable areas. • Conduct inspections of machinery and vehicles to ensure that they are free of soil and vegetative materials.	Ongoing	Greencard training not provided, inspections being undertaken	Photos/inspection report/training records	Included in Site Inspection Reports	Compliant	0
281	Urban Resources	Topsoil Management Plan	Hygiene	8	1. Vehicle or equipment does not meet quarantine inspection requirement (i.e., not free of plant material or soil) • Report and investigate as an incident. • Arrange for vehicle / equipment to be cleaned or washed down at an external facility. • Re-inspect vehicle / equipment.	Ongoing	No incidents as recorded on Skytrust	Incident records	Included in Site Inspection Reports	Compliant	Not required during quarry activity

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282	Urban Resources	Topsoil Management Plan	Weed	8	2. New weed or Declared Pest or High to Very High priority infestation occurring onsite, on stockpiles or within landscaping areas • Report and investigate as an incident. • Arrange for weed control by a suitably trained contractor. • Increase monitoring frequency to weekly until no weed occurrence for 1 month. • Review hygiene measures and conduct additional toolbox meetings as required.	Ongoing	No infestations on stockpiles	Site inspections, incident register	Included in Site Inspection Reports	Compliant	0
283	Urban Resources	Topsoil Management Plan	Dieback	8	3. Evidence of potential dieback infection • Report and investigate as an incident. • Report immediately to SPT and ES. • The ES to inspect and recommend corrective action to SPT/CM. • Implement corrective actions (i.e., phosphite application) on advice from ES. • Review hygiene measures and conduct additional toolbox meetings as required.	Ongoing	No evidence of dieback	Site inspections, incident register	Included in Site Inspection Reports	Compliant	0
284	Urban Resources	Topsoil Management Plan	Dust	9	Management Actions as per Dust Management	Ongoing	If required	Site inspections, incident register	Included in Site Inspection Reports	Compliant	0
285	Urban Resources	Topsoil Management Plan	Stormwater	10	1. Observation of excessive water/stormwater leaving site. • Report and investigate as an Incident.	Ongoing	No excessive stormwater noted, no large areas of erosion	Site inspections, incident register	Included in Site Inspection Reports	Compliant	0
286	Urban Resources	Topsoil Management Plan	Stormwater	10	2. Complaint received. • Report and investigate as an Incident. • Complaint must be addressed within 24 hours if severe, or within one week for minor complaints. • Review procedures and adjust if required. • Conduct additional toolbox meeting to highlight stormwater management issues. • Notify the PM if the complaint escalates to a serious concern that cannot be addressed. • If repeat incidents occur, implement boundary particulate monitoring.	Ongoing	No complaints in Skytrust	Site inspections, incident register	Included in Site Inspection Report - none received to date	Compliant	0
287	Urban Resources	Topsoil Management Plan	Stormwater	10	3. Signs of stormwater leaving site. • Report and investigate as an incident. • Modify extraction plan, remediate stormwater damage	Ongoing	No large erosion areas noted during site visit after very wet July and no reports on Skytrust	Site inspections, incident register	No stormwater runoff to date	Compliant	0
288	Urban Resources	Topsoil Management Plan	Dieback	12	Prevention of illegal access	Ongoing	Some illegal access noted - prevention measures to be discussed	Site inspections, incident register	Included in Site Inspection Reports	Compliant	Some prevention measures have been undertaken and the issue will be ongoing
289	Urban Resources	Topsoil Management Plan	Hygiene	12	Vehicle Inspections	Ongoing	Inspection sheets to be provided for clearing	Inspection sheet as supplied in plan	Included in Site Inspection Reports	Compliant	Not required during quarry activity
290	Urban Resources	Topsoil Management Plan	Hygiene	12	Imported materials to be dieback freed	Ongoing	crushed brick road base likely to be dieback free	0	Included in Site Inspection Reports	Compliant	0
291	Urban Resources	Topsoil Management Plan	Hygiene	12	Ensure that the soil is take from below the root zone and preferentially in calcareous soils	Ongoing	Current extraction area with limestone	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
292	Urban Resources	Topsoil Management Plan	Hygiene	12	Ensure that the vehicles transporting the soil are adequately sealed to prevent soil from spilling out during transport	Ongoing	Loads being covered	Photos/inspection report	Included in Site Inspection Reports	Compliant	Only dieback free topsoil offsite
293	Urban Resources	Topsoil Management Plan	Hygiene	12	Ensure that the soil from Excluded areas is not being used within, adjacent to or down-gradient of protectable areas	Ongoing	Current mining undertaken away from protectable areas	Photos/inspection report	Included in Site Inspection Reports	Compliant	0
294	Urban Resources	Topsoil Management Plan	Hygiene	12	Training and green cards	Ongoing	Inductions and training complete except for Green Card training	Training records	Training complete but Green cards not	Partially Compliant Green card pending	0

No	Current Responsibility	Approval/ MP	Theme	Condition/ Management Action	Requirement	Timing	Current Status	Evidence/Document Reference	Reporting Status	Compliance Status	Notes
295	Urban Resources	Fly-tipped waste	Contamination	0	CoW is asking Urban Resources to remove Fly-tipped waste	0	Urban Resource employing specialist removal	Specialist report	To be included when complete	Compliant	Specialist consultant engaged - report to be included in records
296	City of Wanneroo	Bushfire Management Plan	Bushfire	1	Establish clearing/low threat landscaping across the project area and APZ to the dimensions and standards stated in this BMP.	Development	Not required	Not required	Not required	Not required	0
297	City of Wanneroo	Bushfire Management Plan	Bushfire	2	Construct the private driveway to the standards stated in this BMP.	Development	Not required	Not required	Not required	Not required	0
298	City of Wanneroo	Bushfire Management Plan	Bushfire	3	Install the on-site firefighting water tank and turnaround area to the standards stated in this BMP.	Development	Not required	Not required	Not required	Not required	0
299	City of Wanneroo	Bushfire Management Plan	Bushfire	4	Comply with the City of Wanneroo annual firebreak notice as amended, including lot boundary firebreak maintenance and the requirement to adhere to any bushfire management measures stipulated in the BMP.	Development	Not required	Not required	Not required	Not required	0
300	Future landowner	Bushfire Management Plan	Bushfire	1	Maintain the clearing/low threat landscaping within project area and APZ to the dimensions and standards stated in this BMP.	Development	Not required	Not required	Not required	Not required	
301	Future landowner	Bushfire Management Plan	Bushfire	2	Maintain the private driveway to the standards stated in the BMP.	Development	Not required	Not required	Not required	Not required	
302	Future landowner	Bushfire Management Plan	Bushfire	3	Maintain the firefighting water tank to the standards stated in the BMP.	Development	Not required	Not required	Not required	Not required	
303	Future landowner	Bushfire Management Plan	Bushfire	4	Comply with the City of Wanneroo annual firebreak notice as amended, including lot boundary firebreak maintenance and the requirement to adhere to any bushfire management measures stipulated in the BMP.	Development	Not required	Not required	Not required	Not required	

APPENDIX 7

Site Inspection Reports

File Note 8 November 2025

Site Inspection 8 November 2025

Present PGV Environmental

Previous Inspection Items

Factor	Action	Personnel	Date	Notes
Shapefiles	Predictive Contour Plan	Urban Resources - surveyor	31/07/26	Predicative contour plan required
Site Office	Permanent infrastructure such as wheelwash	Urban Resource	When permanent site ready	Pending
Fuel	Temporary storage unit on-site to be removed	N Dieroff	When permanent site ready	Pending

Site Activity Since Last Inspection

The following has been undertaken on the site since the last inspection:

- Excavation has progressed in the Stage 2 cleared area .
- Topsoil in Stage 2 on northern boundary not removed to date – pegging of the boundary between 'Uninfested' and 'Uninterpretable' to be undertaken prior to topsoil removal.
- No incursions of topsoil stockpile into uninfested areas and no evidence of water erosion on the topsoil area.
- Vehicles used between dieback areas enters dieback frees areas from clean limestone roads – no truck movements in areas that still have topsoil in the Uninfested area.
- No complaints have been received and no incidents recorded.

Inspection Items

No.	Factor	Notes
1	Clearing	No clearing undertaken – clearing not to be undertaken in the near future
2	Site Office	Temporary office still being utilised – preparation for the area that will contain the permanent site office pending, planning is being undertaken. New office location will be contiguous with the new entrance
3	Fuels/oils	Temporary fuel storage present.
4	Roads, cross-overs, access roads	Crossover has some dirt on it.
5	Incidents/ complaints	No incidents or complaints reported
6	Wildlife	No wildlife injuries reported.
7	Dust	No dust noted – soil stockpiles were wet from rain
8	Rubbish	Some rubbish noted during site inspection – piled ready for transfer
9	Weeds	No grassy weeds in extraction footprint

No.	Factor	Notes
		Some weeds evident on soil stockpiles. Weeds generally consisting of grassy weeds and *Phytolacca octandra* (Ink Weed), There are no Declared Pests or Significant weeds growing on the topsoil stockpiles therefore no weed control is required as per the CEMP and Topsoil Management Plan.
10	Access	Limestone track has been constructed in the dieback free area all vehicles moving from the uninterpretable area free of soil and weed material and entering area from a limestone track – no evidence of vehicles moving from areas with topsoil in the uninterpretable area to the uninfested area so no transfer of soil, maintaining hygiene protocols. Illegal access is minimal but ongoing. Additional barriers of cleared material have been added to the western side of the Mather Road Reserve as well as boulders in access points taught are more frequently used. Updating of security has been undertaken
11	Signage	Signage present on most boundaries.

Action Items

Factor	Action	Personnel	Date	Notes
Weeds	Monitoring to be ongoing	PGV Environmental	At site inspections	If Urban Resources note any changes of the weeds during the routine inspections as per the Topsoil Management Plan let PGV know and we can check the species by photo or site inspection.
Dieback	Peg the Infested/ uninterpretable line in the eastern part of the site prior to the removal of topsoil	Urban Resources	Prior to removal of topsoil	Stockpiles of topsoil from Uninfested and Uninterpretable areas to be stored separately until the City of Wanneroo confirms that no topsoil from the Uninfested area is required.

APPENDIX 8

Vegetation Monitoring Report

MATHER RESERVE (53163) AND LOT 24 MARY STREET, WANNEROO, NEERABUP

VEGETATION MONITORING REPORT

Prepared for:	City of Wanneroo
Report Date:	5 May 2025
Version:	1
Report No.	2025-917

pgv ENVIRONMENTAL

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1 INTRODUCTION

1.1 Location

Mather Reserve (53163) Neerabup (Mather Reserve) and Lot 24 Mary Street, Wanneroo (Mary Street) are located in the City of Wanneroo (Figure 1). Mather Reserve is located on Mather Drive and Flynn Drive and is surrounded by industrial development, future industrial development and Bush Forever. Lot 24 Mary Street has Mary Street to the north and Ocean Reef Drive to the south. Both sites are part of an offset package for the development of the Meridian Business Park.

1.2 Background

The Meridian Business Park Industrial Development, Neerabup is an area zoned for industrial development in the City of Wanneroo. The Meridian Business Park Industrial Development contains Matters of National Environmental Significance (MNES). As a result, the proposed development was referred for assessment under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act).

The proposal was determined to be a Controlled Action (EPBC 2007/3479) and was approved on 2 June 2014, subject to conditions (Appendix 1). The controlling provisions under Section 18 of the EPBC Act was for impacts on Carnaby's Black Cockatoos. The approved action included the establishment of Conservation Areas on Mather Drive and Lot 24 Mary Street, Wanneroo.

Condition 3 of the EPBC Act approval requires the preparation and implementation of a Conservation Area Management Plan (CAMP) to guide the long-term management of the Conservation Areas established as part of the approved action.

> *To mitigate impacts to Carnaby's Black Cockatoos, prior to the commencement of the action. the person taking the action must prepare and submit a Conservation Area Management Plan (CAMP) to the Minister for approval. The CAMP must be submitted at least 3 months prior to commencement of the action. The CAMP must include management details for the Conservation Area and the Mary Street Site. These details must include:*
>
> *a) zoning and tenure arrangements;*
> *b) objectives, targets and completion criteria for revegetation programs to increase black cockatoo foraging habitat at the Mary Street Site;*
> *c) fencing and access management;*
> *d) management measures to control weeds, Phytophthora dieback, erosion and dust;*
> *e) timeframes and implementation of the above measures; and*
> *f) descriptions of the roles and responsibilities of personnel associated with implementing each of the above measures.*
>
> *If the Minister approves the CAMP, the approved CAMP must be implemented.*

The original CAMP was approved by the Minister on 16 June 2017. The CAMP was updated in 2020 (City of Wanneroo, 2020) with the revised version being approved on 3 July 2020. The purpose of this

document was to identify threats and develop appropriate management actions within the offset sites. The CAMP is the overarching plan for the management of the Mather Reserve (53163) Neerabup (Mather Reserve) and Lot 24 Mary Street Wanneroo (Mary Street) conservation areas.

1.3 Conservation Area Management Plan (CAMP)

The CAMP broadly covers management actions such as fencing and access, bushfire management, weed control, dust and erosion management, revegetation and monitoring.

The vegetation monitoring programme described in this report is a component of those monitoring requirements.

Table 1 outlines the factors in the CAMP most relevant to this vegetation monitoring programme.

Table 1: CAMP Factors Relevant to Vegetation Monitoring Programme.

Factor	Consequence	Targets	Parameters
Weed and Disease Management	• Loss of biodiversity. • Increased fire risk and changes to fire regime. • Destruction of Carnaby's Black Cockatoo habitat.	• No introduction of new significant weed species into the Offset Sites. • Eradicate any Declared Pests and High to Very High priority weeds found within the Offset Sites. • The Offset Sites are to have No Declared Weeds and overall weed cover estimate of <5%.	• No Declared Pests under the *BAM Act.* • No High to Very High priority weeds under the Swan NRM weed prioritisation census (Bettink & Keighery, 2008). • No weeds considered to be environmental weeds.
Carnaby's Black Cockatoo Management	Loss of habitat.	Monitor vegetation in permanent Quadrats every two years.	• Vegetation quality and condition does not decline. • The retention of all native vegetation in condition equal to or better than the baseline condition. • The retention of species considered to be foraging habitat for Black Cockatoos. • In condition equal to or better than the baseline condition.

1.4 Scope and Survey Aims

The overarching purpose of the vegetation monitoring programme devised in the CAMP is to demonstrate that the biodiversity values of the Carnaby's Black Cockatoo habitat are retained and that the vegetation condition is maintained or is improved over time.

Permanent quadrats were established as a part of a baseline survey in 2016 (Terratree, 2016). Two quadrats were established in Mary Street (Figure 2) and six in Mather Reserve (Figure 3).

The methodology initially consisted of annual monitoring surveys. It was decided after the 2020 survey, that every two years was more appropriate, as other than catastrophic events like fire, very little change occurs in native vegetation over the interval of a year. In monitoring it is imperative that quality over quantity is observed, and it is of much higher value to put resources towards fewer but higher quality surveys.

The CAMP states that the monitoring programme shall record for each quadrat:

- Landscape position and aspect;
- Soil characteristics;
- Time since fire;
- Litter cover;
- Vegetation condition and observed disturbances;
- Vegetation community description;
- Flora species, including height and percentage foliage cover;
- Photos to aid detection of any changes in vegetation; and
- Other relevant information observed.

2 METHODOLOGY

2.1 Previous Surveys

The initial survey was completed by Terratree (2016) and included the establishment of permanent quadrats and a baseline survey. The location of quadrats in the Mary Street Reserve is shown on Plate 2 and those in Mather Reserve on Plate 2.

Plate 1: Quadrats in Mary Street Reserve



Plate 2: Quadrats in Mather Reserve



Follow up surveys of the permanent quadrats were completed by Ecoscape in 2018 and 2019 (Ecoscape, 2018; Ecoscape, 2019) and by One Tree Botanical in 2020 and 2022 (One Tree Botanical, 2021; One Tree Botanical, 2023).

This report documents the results of the sixth monitoring survey and summarises all monitoring surveys completed previously from 2016 to 2022.

2.2 Vegetation Descriptions

Consistent with existing monitoring programme methodology, the definition and description of vegetation types were based on NVIS (ESCAVI, 2003) structural formation parameters and terminology. This is also consistent with the requirements of the EPA (2016).

Vegetation descriptions developed in previous monitoring surveys have been used in this report and modified where appropriate. These are presented in Tables 8 and 9. A more detailed breakdown of the NVIS vegetation structure for each quadrat is provided in Appendix C.

2.3 Condition

As requested by the City of Wanneroo and consistent with existing monitoring programme methodology the Bush Forever (Government of WA, 2000) condition scale was used (Table 2). The EPA (2016) condition scale is derived from this and is effectively identical. The original scale was developed by Bronwen Keighery (Keighery, 1994) which was modified from a scale developed by Malcolm Trudgen (Trudgen, 1991).

Table 2: Vegetation Condition Rating Scale

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

The condition of the vegetation ranged from Good to Completely Degraded using the Keighery scale (Government of Western Australia, 2000). There are large areas of bare sand in places.

2.4 Conservation Significance

While it is not a specific purpose of this project, conservation significant species and communities were noted where encountered. Conservation significance is discussed in this report in the context of:

- Threatened Flora and Threatened Ecological Communities (TECs) under the Western Australian Biodiversity Conservation Act 2016 and/or the EPBC Act.
- Species and communities other than those listed under state and federal legislation and guidelines e.g. Threatened Flora, may have conservation significance. These are defined by

the EPA (2016) as those species that may include but not be limited to those that have or are Priority flora species Priority Ecological Communities (PECs).

- Habitat for Threatened and Priority Fauna.

Both reserves contain vegetation that is considered to form part of the Banksia Woodlands of the Swan Coastal Plain Threatened Ecological Community (Banksia Woodland TEC) in addition to providing habitat for listed Black Cockatoos.

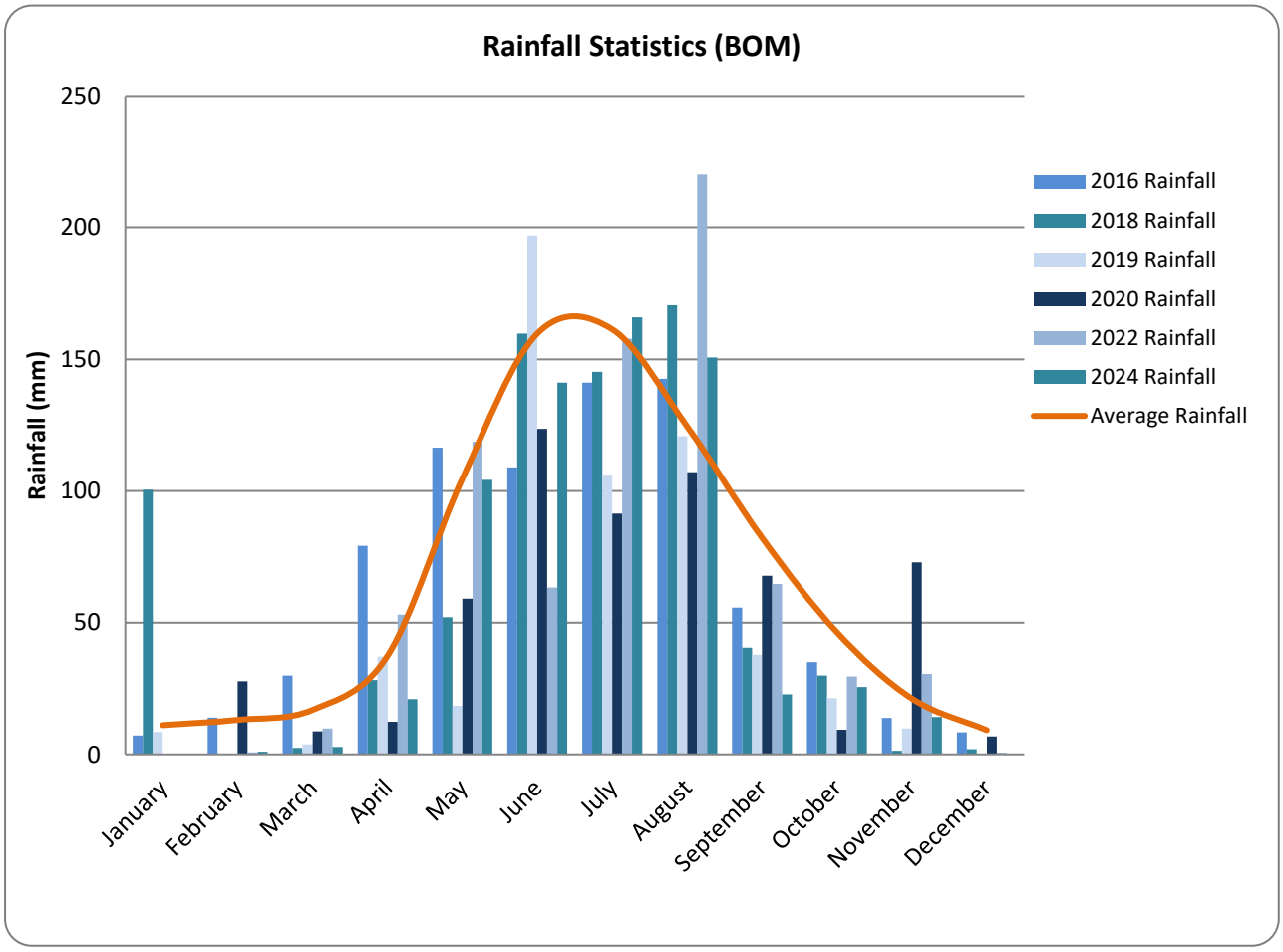
3 RESULTS

As this is a long-term monitoring project, the results section not only includes the results of the 2024 survey, but also summarised data from previous monitoring surveys. This is to provide context and continuity.

3.1 Seasonal Conditions

The closest Bureau of Meteorology (BoM) weather recording station with long term data is Wanneroo (Site No. 009105) (BoM, 2024). Rainfall preceding each round of monitoring is shown in comparison to the mean. Rainfall was lower than average in the year except July and August that had a total rainfall of 166.0mm and 150.8mm compared to means of 161.5mm and 124.5mm respectively (Graph 1).

Graph 1: Rainfall Statistics



The three months preceding monitoring can have an immediate impact on the vegetation. In 2024, rainfall in August was above average, while rainfall in September and October was below average. Overall, cumulative rainfall for the three months preceding the monitoring period was 78.7% of the long-term average (Table 3).

Table 3: Rainfall Comparison against the Mean

Year	Survey Timing	Rainfall (3 Months prior to survey)(mm)	Long Term Mean (for each 3 month period)(mm)	% of Long Term Mean (for each 3 month period)
2016	September	392.9	441.2	87.7%
2018	November	241.2	254.7	94%
2019	November	180.0	253.7	70%
2020	September	266.3	367.2	72.5%
2022	September	442.6	367.2	120.5%
2024	November	199.2	253.0	78.7%

Statistics from BoM, 2024

3.2 Bushfire

There have been a number of quadrats impacted by fire, some of which during controlled burns to mitigate bushfire risk and others uncontrolled burns. Quadrat 7 was impacted by the installation of a firebreak to control a bushfire on the north-eastern corner of Mather Reserve in 2020 (Plate 3). Plate 4 shows the vegetation impacted by the fire and the firebreaks is recovering with colonisation evident on cleared areas in the aerial. Plate 5 shows the initial recovery in 2023.

Plate 3: Burnt Area Mather Reserve 2020



Plate 4: Burnt Area Mather Reserve 2024



Plate 5: Burnt Area Mather Reserve 2023



In 2024 controlled burns were undertaken in the central part of Mather Reserve to reduce fire risk (Plate 6). The controlled burn impacted on Quadrat 3 and Quadrat 8, both of which will be monitored in 2026 to measure the recovery of the vegetation in post controlled burn conditions.

Plate 6: Controlled Burn Area in Mather Reserve



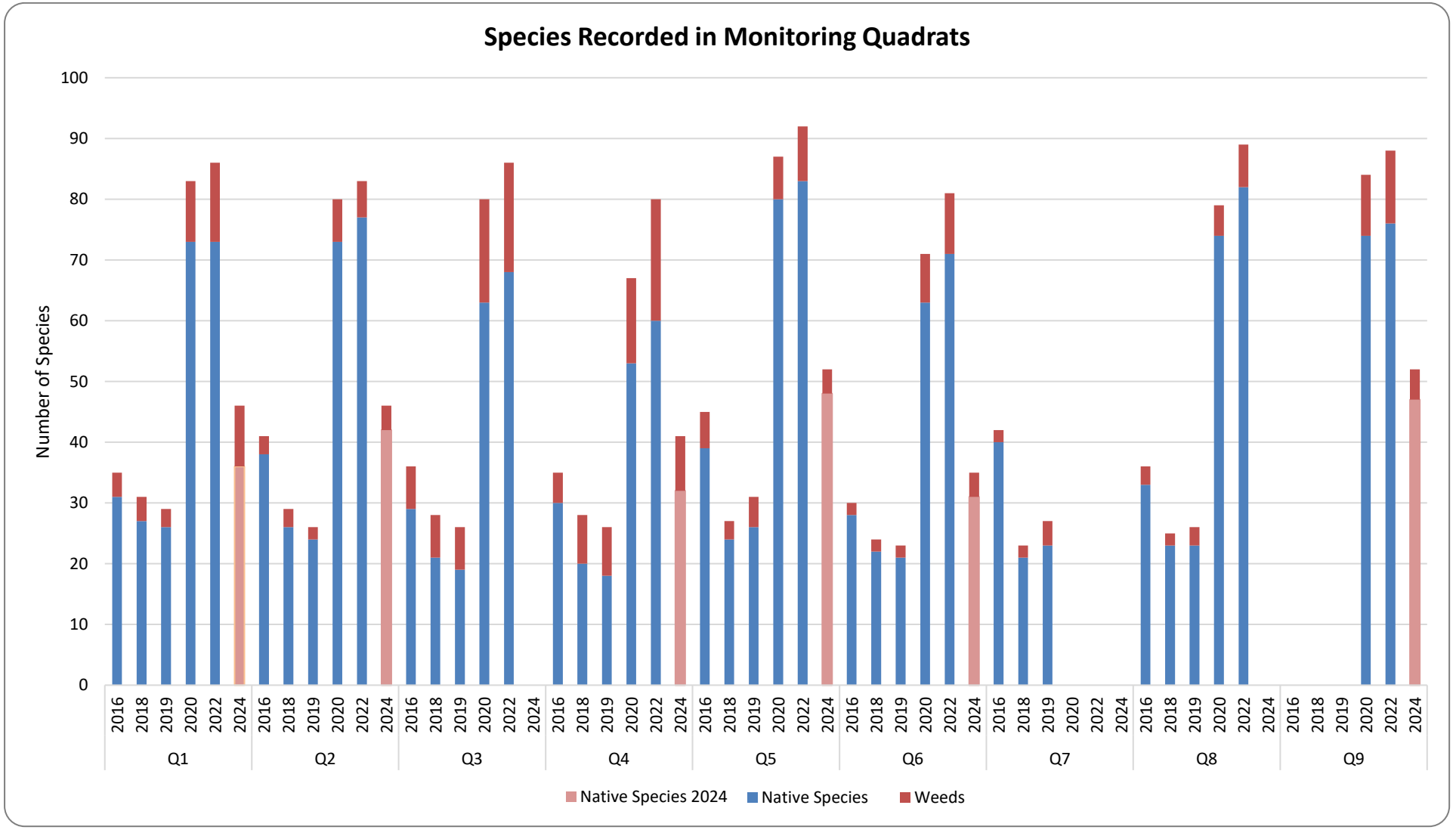
3.3 Flora

3.3.1 Flora Species

The cumulative total for Mary Street in 2020 was 126 flora taxa of which 23 (18.2%) were weeds. The cumulative total for Mary Street after the 2022 surveys was 178 flora taxa of which 44 (24.7%) were weeds. An additional 52 flora species were added to the cumulative species inventory for Mary Street during the 2022 surveys. There were two additional species recorded in the 2024 monitoring, one native species and one weed species resulting in a cumulative total of 180 flora taxa.

The 2024 survey recorded 71 species of which is more than the number recorded in 2016 to 2019 monitoring (58, 41 and 40) but less than the 2020 and 2022 monitoring periods (Graph 2). This is likely due to the timing of the survey which is consistent with the 2018 and 2019 monitoring and the lower than average rainfall. There were ten weed species (14.1%) recorded in 2024.

Graph 2: Number of Native and Weed Species Recorded in Quadrats



The cumulative total for Mather Reserve in 2020 was 161 flora taxa of which 22 (13.7%) were weeds. The cumulative total for Mather Reserve after the 2022 surveys was 185 flora taxa of which 30 (16.2%) were weeds. An additional 24 flora species were added to the cumulative species inventory for the survey area during the 2022 surveys. In 2024 there were five species not previously recorded giving a cumulative total of 166 with 32 (19.3%) weed species. A total of 93 species were recorded in Mather Reserve in 2024 with 11 weed species (11.8%).

See Appendix 1 for the full lists of species recorded in each quadrat.

3.3.2 Weed Species

Weed species recorded in the quadrats in the Mary Street reserve in 2024 included eight species (Table 4). No species recorded were Weeds of National Significance (WoNS) or Declared Pests under the *Biosecurity and Agriculture Management Act 2007* (BAM Act). *Ehrharta calycina* (Perennial Veldt Grass) is identified as a Priority Weed in the Swan Natural Resource Management (NRM) region.

Table 4: Ratings for Weeds Recorded in Mary Street Reserve in 2024

Species	Common Name	Ecological Impact	Invasiveness	Listing
Aira caryophyllea	Silvery Hairgrass	Unknown	Unknown	
Arctotheca calendula	Cape Weed	High	Rapid	
Brassica tournefortii	Mediterranean Turnip	High	Rapid	
Ehrharta calycina	Perennial Veldt Grass	High	Rapid	Priority
Gladiolus caryophyllaceus	Wild Gladiolus	High	Rapid	
Senecio vulgaris	Common Groundsel	Low	Unknown	
Ursinia anthemoides	Solar Fire	Unknown	Rapid	
Wahlenbergia capensis	Cape Bluebell	Unknown	Rapid	

Ratings from DBCA, 2016

The Mather Reserve recorded eleven weeds (Table 5), none of which were WoNS or Declared Pests. The only species listed as a priority in the Swan NRM regions was, as for Mary Street, Perennial Veldt Grass) is identified as a Priority Weed in the Swan Natural Resource Management (NRM) region Perennial Veldt Grass.

Table 5: Ratings for Weeds Recorded in Mather Reserve in 2024

Species	Common Name	Ecological Impact	Invasiveness	Listing
Avena barbata	Bearded Oat	High	Rapid	
Bromus diandrus	Great Brome	High	Rapid	
Carpobrotus edulis	Hottentot Fig	High	Rapid	
Ehrharta calycina	Perennial Veldt Grass	High	Rapid	Priority
Erigeron bonariensis	Fleabane	Low	Moderate	
Lysimachia arvensis	Pimpernel	Unknown	Rapid	
Monoculus monstrosus	Stinking Roger	Medium	Rapid	
Pelargonium capitatum	Rose Pelargonium	High	Rapid	
Sonchus oleraceus	Common Sowthistle	Uknown	Rapid	
Trifolium campestre	Hop Clover	Unknown	Unknown	
Ursinia anthemoides	Solar Fire	Unknown	Rapid	
Vulpia myuros	Rats Tail Fescue	High	Rapid	

Ratings from DBCA, 2016

3.4 Vegetation

3.4.1 Vegetation Types and Photographs

The descriptions of vegetation within each quadrat have evolved over the life of the monitoring programme. Ecoscape (2019) provided a good basic description of each. These were modified in One Tree Botanical (2021). No modifications were required for the 2024 monitoring .

Descriptions of vegetation in Mary Street quadrats are presented in Table 6. Photographic records are presented in Plates 6 to 17.

Table 6: Vegetation Descriptions in Mary Street Reserve

Quadrat	Vegetation Description	Plates
Q1	Low Woodland of *Eucalyptus marginata* subsp. *marginata* over Sparse Shrubland *Xanthorrhoea preissii* over Shrubland *Hibbertia hypericoides* subsp. *hypericoides* and *Dampiera linearis* and Sparse Sedgeland *Mesomelaena pseudostygia* over Open Forbland (mixed diverse).	Plates 3-7
Q2	Low Woodland *Banksia attenuata*, *Banksia menziesii*, *Allocasuarina fraseriana* over Low Shrubland *Hibbertia hypericoides* subsp. *hypericoides*, *Stirlingia latifolia*, *Daviesia triflora* over Sparse Sedgeland *Mesomelaena pseudostygia*, Sparse Rushland *Lyginia barbata*, *Desmocladus flexuosus* and Open Forbland (mixed diverse).	Plates 8-12

Plate 6: Q1 2016 (potentially from NE corner)



Plate 7: Q1 2018



Plate 8: Q1 2019



Plate 9: Q1 2020



Plate 10: Q1 2022



Plate 11: Q1 2024



Plate 12: Q2 2016



Plate 13: Q2 2018



Plate 14: Q2 2019



Plate 15: Q2 2020



Plate 16: Q2 2022



Plate 17: Q2 2024



Descriptions of vegetation in Mather Reserve are presented in Table 7. Photographic records are presented in Plates 18 to 55.

Table 7: Vegetation Descriptions in Mather Reserve

Quadrat	Vegetation Description	Plates
Q3	Low Woodland *Banksia attenuata*, *Banksia menziesii*, *Allocasuarina fraseriana* over Mid Open Shrubland *Xanthorrhoea preissii* over Low Shrubland *Hibbertia hypericoides* subsp. *hypericoides*, *Stirlingia latifolia*, Sparse Sedgeland *Mesomelaena pseudostygia*, Sparse Rushland *Desmocladus flexuosus*, *Alexgeorgea nitens* and Open Forbland (mixed diverse).	Plates 13-17
Q4	Low Woodland *Banksia attenuata*, *Allocasuarina fraseriana* over Mid Sparse Shrubland *Xanthorrhoea preissii* over Low Shrubland *Hibbertia hypericoides* subsp. *hypericoides*, *Eremaea pauciflora* var. *pauciflora*, Open Sedgeland *Mesomelaena pseudostygia*, Sparse Rushland *Lepidobolus preissianus* subsp. *preissianus* and Open Forbland (mixed diverse).	Plates 18-22
Q5	Low Woodland *Banksia attenuata*, *Banksia menziesii*, *Allocasuarina fraseriana* over Mid Sparse Shrubland *Xanthorrhoea preissii* over Low Shrubland *Hibbertia hypericoides* subsp. *hypericoides*, *Stirlingia latifolia*, Sparse Sedgeland *Mesomelaena pseudostygia*, Sparse Rushland *Hypolaena exsulca*, *Desmocladus flexuosus*, *Lyginia imberbis* and Open Forbland (mixed diverse).	Plates 23-27
Q6	Low Woodland *Eucalyptus marginata* subsp. *marginata*, *Allocasuarina fraseriana*, *Banksia menziesii* over Mid Sparse Shrubland *Xanthorrhoea preissii* over Low Open Shrubland *Hibbertia hypericoides* subsp. *hypericoides*, *Stirlingia latifolia*, *Bossiaea eriocarpa*, Sparse Sedgeland *Mesomelaena pseudostygia*, Sparse Rushland *Desmocladus flexuosus*, *Lyginia imberbis* and Open Forbland (mixed diverse).	Plates 28-32
Q7	Not surveyed since 2019 (destroyed). See replacement quadrat Q9.	Plates 33-38
Q8	Low Woodland *Banksia attenuata*, *Allocasuarina fraseriana* over Mid Sparse Shrubland *Xanthorrhoea preissii* over Low Shrubland *Hibbertia hypericoides* subsp. *hypericoides*, *Stirlingia latifolia*, Sparse Sedgeland *Mesomelaena pseudostygia*, Sparse Rushland *Lyginia imberbis* and Open Forbland (mixed diverse).	Plates 39-43
Q9	Low Open Woodland *Banksia attenuata*, *Banksia menziesii*, *Allocasuarina fraseriana* over Mid Sparse Shrubland *Xanthorrhoea preissii* over Low Shrubland *Hibbertia hypericoides* subsp. *hypericoides*, *Daviesia triflora*, *Bossiaea eriocarpa*, Sparse Sedgeland Mesomelaena *pseudostygia*, Sparse Rushland *Desmocladus asper*, *Desmocladus flexuosus*, *Lyginia imberbis* and Open Forbland (mixed diverse).	Plates 44-45

Plate 18: Q3 2016



Plate 19: Q3 2018



Plate 20: Q3 2019



Plate 21: Q3 2020



Plate 22: Q3 2022



Plate 23: Q3 2024



Plate 24: Q4 2016



Plate 25: Q4 2018



Plate 26: Q4 2019



Plate 27: Q4 2020



Plate 28: Q4 2022



Plate 29: Q4 2024



Plate 30: Q5 2016



Plate 31: Q5 2018



Plate 32: Q5 2019



Plate 33: Q5 2020



Plate 34: Q5 2022



Plate 35: Q5 2024



Plate 36: Q6 2016



Plate 37: Q6 2018



Plate 38: Q6 2019



Plate 39: Q6 2020



Plate 40: Q6 2022



Plate 41: Q6 2024



Plate 42: Q7 2016



Plate 43: Q7 2018

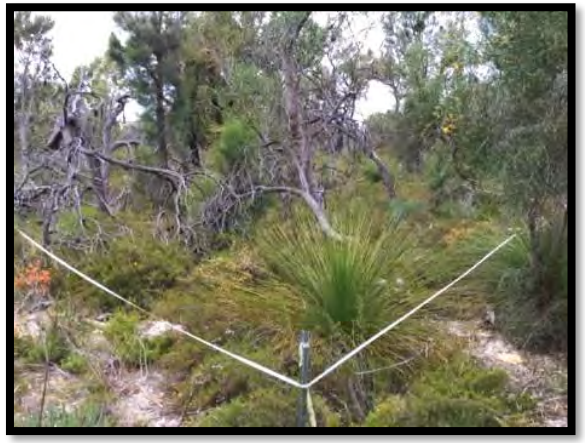


Plate 44: Q7 2019



Plate 45: Q7 2020



Plate 46: 2022 Monitoring of Regrowth in cleared area



Plate 47: Q8 2016



Plate 48: Q8 2018



Plate 49: Q8 2019



Plate 50: Q8 2020



Plate 51: Q8 2022



Plate 52: Q8 2024



Plate 53: Q9 2020

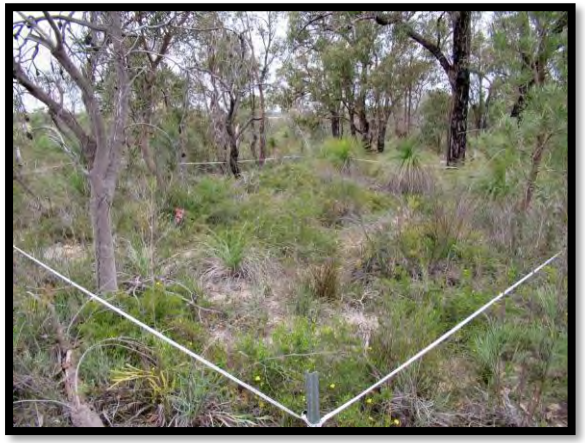


Plate 54: Q9 2022



Plate 55: Q9 2024



3.4.2 Vegetation Condition

The condition of the quadrats has been recorded each monitoring period according to the system devised by Keighery and described in Bush Forever (Government of Western Australia, 2000) (Table 83).

Table 8: Vegetation Condition Rating Scale

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

Source: Government of Western Australia, 2000.

The condition rating for each monitoring period is outlined in Table 9.

Quadrats 3 and 8 that were burnt in 2024 cannot be assigned a condition rating however recovery of the vegetation should be measured in following monitoring rounds. Generally, the condition of the vegetation in both reserves is at least Very Good and in most cases in Excellent condition. There were no quadrats, other than those that have been burnt that had a decline in the vegetation condition. A factor contributing to the high condition rating is the low coverage of weeds within each quadrat, which is reflected in the surrounding vegetation within the reserves.

Table 9: Condition Rating of Quadrats

Quadrat	2016		2018		2019		2020		2022		2024	
	Rating	Weeds %*	Rating	Weeds %	Rating	Weeds %	Rating	Weeds %	Rating	Weeds %	Rating	Weeds %
Q1	VG	1.3%	VG	<1%	VG	1%	VG	3%	VG	3%	Ex	1%
Q2	Ex	4.1%	Ex	<1%	VG	<1%	Ex	1-2%	Ex	2%	Ex	1%
Q3	VG	0.4%	VG		VG	<1%	Ex	1%	Ex	1%	Burnt	1%
Q4	VG	3.3%	VG	<1%	VG	<1%	VG	2%	VG	3%	VG	2%
Q5	Ex	6.4%	Ex	<1%	E	<1%	Ex	2%	Ex	2%	Ex	1%
Q6	VG	0.2%	VG	<1%	E	<1%	VG	1.5%	VG	1.5%	Ex	1%
Q7	Ex	0.2%	Ex	<1%	E	<1%	-	-	-	-	-	-
Q8	Ex	0.2%	Ex	<1%	E	<1%	Ex	<1%	Ex	0.3%	Burnt	1%
Q9	-	-	-	-	-	-	Ex	1.5%	Ex	1.5%	Ex	1%

* No specific weed cover was estimated in 2016. These covers were calculated from cover data as presented in Appendix B.

4 DISCUSSION AND RECOMMENDATIONS

Monitoring in the quadrats in 2024 found the following:

- Two quadrats were impacted by a controlled burn within Mather Reserve, Q3 and Q8.
    - Recommendation: Both quadrats should continue to be monitored to track the recovery of the vegetation to aid with future decisions regarding active fire management.
- The number of species recorded was less than in 2020 and 2022, but greater than the number of species in 2016 to 2019. This is likely to be a result of the monitoring being undertaken later in the season, consistent with 2018 and 2019. The higher number of species compared to other years undertaken in the same season may reflect improving vegetation diversity.
    - Recommendation: The timing of monitoring should remain consistent with previous rounds so data is comparable.
- There were no new infestations of Priority weeds, Declared weeds or WoNS. *Ehrharta calycina* (Perennial Veldt Grass) was recorded in both reserves and is a Priority weeds. The coverage of weeds in the quadrats was very low (1 to 2%) and the quadrats and vegetation in the reserves continues to improve with the weed management works being undertaken.
    - Recommendation: Infestations of Perennial Veldt Grass should be targeted in future weed management.
- The vegetation types remain consistent to previous years. Comparison of photographs from each year show no major changes except in Q3 and Q8 that have been burnt.
    - Recommendation: Continue to review Q3 and Q8 using photographs to review the recovery of the vegetation.
- The condition of the vegetation was consistent or better I each of the quadrats compared to previous years except in Q3 and Q8
    - Continue to monitor Q3 and Q8 to ensure the vegetation recovers to previous condition or better.

Generally, the reserves have improved ecological values as a result of the management measures implemented and continue to maintain important habitat values for Black Cockatoos. The management measures have been effective in enhancing and maintaining the condition of the reserves, including supporting the retention and improvement of suitable Black Cockatoo foraging habitat..

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APPENDIX 1

Quadrat Monitoring Results

XX = outside quadrat but within 10m of quadrat boundary;

† = species overhanging quadrat; cl = Climber

Weed	Genus	Species	Infra-Rank	Infra- Species	NVIS Lifeform	Quadrat 1												Quadrat 2											
						25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024		25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024	
						Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover
	Acacia	*applanata*			Shrub																			40	0.3	30	0.1	20	<1
*	*Acacia*	*iteaphylla*			Shrub																								
	Acacia	*lasiocarpa*	var.	*lasiocarpa*	Shrub																								
	Acacia	*pulchella*	var.	*glaberrima*	Shrub																					XX	XX		
	Acacia	*saligna*			Shrub																								
	Acacia	*sessilis*			Shrub							50	0.1	50	0.1														
	Adenanthos	*cygnorum*	subsp.	*cygnorum*	Shrub			10	<1					XX	XX					20	<1			60	1	120	2	150	2
*	*Aira*	*caryophyllea*			Tussock Grass							10	0.1			20	<1							10	0.2	10	1	10	<1
	Alexgeorgea	*nitens*			Rush	20	1					15	1	15	1	10	<1	10	5					10	1	10	4	10	30
	Allocasuarina	*fraseriana*			Tree							500	0.1†	200	0.1†			500	2	300	1	300	2	600	2	700	3	400	<1
	Amphipogon	*turbinatus*			Tussock Grass			50	<1	50	<1	40	1	30	2	20	<1	15	8	20	<1			60	3	40	3	30	<1
	Anigozanthos	*humilis*	subsp.	*humilis*	Forb									XX	XX									15	0.1	15	0.1		
	Anigozanthos	*manglesii*	subsp.	*manglesii*	Forb					30	<1											30	<1						
*	*Arctotheca*	*calendula*			Forb											10	<1												
	Arnocrinum	*preissii*			Forb																								
	Austrostipa	*?flavescens (immat.)*			Tussock Grass											100	<1											60	<1
	Austrostipa	*compressa*			Tussock Grass									15	0.1											20	0.1		
*	*Avena*	*barbata/fatua*			Tussock Grass									XX	XX	150	<1	10	0.1	60	<1								
	Banksia	*attenuata*			Tree									XX	XX			600	15	600	15	600	15	600	15	600	15	500	5
	Banksia	*dallanneyi*	var.	*dallanneyi*	Shrub																								
	Banksia	*grandis*			Tree																								
	Banksia	*menziesii*			Tree							400	0.1†	400	0.5†	400	<1	400	1	400	2	400	5	400	2	500	3	400	1
	Banksia	*sessilis*	var.	*cygnorum*	Shrub																			XX	XX	XX	XX		
	Beaufortia	*elegans*			Shrub																								
	Billardiera	*fraseri*			Vine	cl	2	20	<1			30	0.1	30	0.1			cl	3	5	<1			70	1	90	1	Climber	<1
	Bossiaea	*eriocarpa*			Shrub	30	0.1	40	1	30	3	30	3	40	3	20	<1			20	<1	50	1	20	1	20	1	30	<1
	Brachyloma	*preissii*			Shrub																								
*	*Brassica*	*tournefortii*			Forb											60	<1												
*	*Briza*	*maxima*			Tussock Grass			10	<1			20	0.1	20	0.1									40	0.5	30	0.3	20	<1
*	*Bromus*	*diandrus*			Tussock Grass																								
	Burchardia	*congesta*			Forb	40	0.1			30	<1	4	0.3	50	0.3	60	<1	50	2					20	1	60	1	60	<1
	Caesia	*micrantha*			Forb							20	0.3	50	0.1			60	0.1					50	1	50	0.1		
	Caladenia	*arenicola*			Forb																								
	Caladenia	*flava*	subsp.	*flava*	Forb							10	0.1	15	0.1			15	1					15	0.1	15	0.1		
	Calandrinia	*corrigioloides*			Forb							10	0.1	3	0.1									XX	XX	XX	XX		
	Calandrinia	*granulifera*			Forb																								
	Calectasia	*narragara*			Shrub	40	0.1					30	0.3	30	0.3	40	<1									XX	XX		
	Calothamnus	*sanguineus*			Shrub																								
	Calytrix	*flavescens*			Shrub									XX	XX														
	Calytrix	*fraseri*			Shrub																								
	Carpobrotus	*edulis*			Forb							3	0.1			10	<1												
	Carpobrotus	*virescens*			Forb																								
	Centrolepis	*drummondiana*			Forb									5	0.1														
	Centrolepis	*inconspicua*			Sedge																			5	0.1	1	0.1		
	Chaetospora	*curvifolius*			Sedge																					20	0.1		
*	*Chamelaucium*	*uncinatum*			Shrub																								
	Comesperma	*calymega*			Shrub							35	0.1							5	<1			40	0.2				
	Conospermum	*incurvum*			Shrub																								
	Conospermum	*stoechadis*			Shrub																					XX	XX		
	Conostephium	*pendulum*			Shrub	40	10	20	1			20	2	20	0.5									50	0.5	50	0.3	10	<1
	Conostylis	*aculeata*	subsp.	*cygnorum*	Forb	30	2	40	<1	20	<1	30	1	30	0.5			30	0.1	40	<1	??	<1	30	0.4	30	0.1		
	Conostylis	*aurea*			Forb											40	<1											30	<1
	Conostylis	*juncea*			Forb																								

XX = outside quadrat but within 10m of quadrat boundary;

† = species overhanging quadrat; cl = Climber

Weed	Genus	Species	Infra-Rank	Infra- Species	NVIS Lifeform	Quadrat 1												Quadrat 2									
						25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024		25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024	
						Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover
	Conostylis	*setigera*	subsp.	*setigera*	Forb							15	0.1	15	0.1			10	2					10	1	10	1	20	<1
	Corynotheca	*micrantha*	var.	*micrantha*	Forb																								
	Crassula	*closiana*			Forb																					1	0.1		
	Crassula	*colorata*	var.	*colorata*	Forb							3	0.1	3	0.1			10	0.1	5	<1			3	0.2	8	0.1		
*	*Cynodon*	*dactylon*			Grass other																								
*	*Daisy Weed*				Forb																								
	Dampiera	*linearis*			Shrub	20	5	30	4	20	5	40	4	40	4	30	1	15	0.1	20	<1	30	1	35	0.1	35	0.1	10	<1
	Dasypogon	*bromeliifolius*			Forb																			35	0.1	35	0.1	30	<1
	Daucus	*glochidiatus*			Forb	10	0.1											10	1										
	Daviesia	*divaricata*	subsp.	*divaricata*	Shrub	60	1					XX	XX	XX	XX			60	2					100	2	100	2.5	80	2
	Daviesia	*nudiflora*	subsp.	*nudiflora*	Shrub									XX	XX			50	0.1	80	<1	XX	<1	20	1	60	0.5	60	<1
	Daviesia	*physodes*			Shrub									XX	XX											XX	XX		
	Daviesia	*triflora*			Shrub			60	<1			70	0.2	70	0.5	60	<1	40	1	80	2	80	2	70	2	70	2	50	1
	Desmocladus	*asper*			Rush							20	2	20	2														
	Desmocladus	*flexuosus*			Rush			10	1	50	<1	30	4	30	4	10	<1			10	2	40	<1	50	3	50	3	10	10
	Dianella	*revoluta*	var.	*divaricata*	Forb			20	<1					XX	XX									60	0.1	80	0.1	60	<1
*	*Disa*	*bracteata*			Forb																								
	Diuris	*magnifica*			Forb	25	0.1					35	0.1	35	0.1														
	Drakaea	*glyptodon*			Forb							1	0.1																
	Drosera	*erythrorhiza*			Forb	1	2					1	0.1	1	0.1			1	5					1	0.3	1	0.2		
	Drosera	*macrantha*			Forb	cl	0.1					20	0.1	40	0.2			cl	1										
	Drosera	*micrantha*			Forb																								
	Drosera	*pallida*			Forb																								
	Drosera	*sp. (sterile)(immat.)*			Forb							1	0.1																
	Drosera	*thyanosepala*			Forb	cl	1																	20	0.1	20	0.1		
*	*Ehrharta*	*calycina*			Tussock Grass	50	1	80	<1	50	<1	90	0.3	90	0.3	50	<1												
*	*Ehrharta*	*longiflora*			Tussock Grass									40	0.1														
	Elythranthera	*brunonis*			Forb							10	0.1	5	0.1									XX	XX	3	0.1		
*	*Eragrostis*	*curvula*			Tussock Grass									90	0.3														
	Eremaea	*pauciflora*	var.	*pauciflora*	Shrub									XX	XX														
*	*Erigeron*	*bonariensis*			Forb																								
	Eriochilus	*dilatatus*	subsp.	*dilatatus*	Forb																					5	0.1		
	Eucalyptus	*marginata*	subsp.	*marginata*	Tree	700	30	700	35	700	30	800	30	900	25	120	10							XX	XX	XX	XX		
*	*Eucalyptus*	*sp. (introduced)*			Tree																								
	Eucalyptus	*todtiana*			Tree																								
*	*Euphorbia*	*peplus*			Forb																								
*	*Euphorbia*	*terracina*			Forb																								
*	*Fumaria*	*capreolata*			Forb																								
*	*Fumaria*	*muralis*			Forb																								
*	*Galium*	*murale*			Forb																								
	Gastrolobium	*linearifolium*			Shrub			50	<1			40	0.3	40	0.3					50	<1	50	<1	60	2	60	1	50	1
*	*Geranium*	*dissectum*			Forb																								
*	*Gladiolus*	*caryophyllaceus*			Forb			60	<1	50	<1	100	0.2	100	0.2	40	<1	60	2	60	<1	60	<1	90	0.5	90	0.3	50	<1
	Gompholobium	*confertum*			Shrub																								
	Gompholobium	*tomentosum*			Shrub	50	2	20	<1	20	<1	40	3	60	4	70	<1	50	5	40	<1			30	2	90	3	40	10
	Grevillea	*crithmifolia*			Shrub																								
	Haemodorum	*laxum*			Forb							80	0.5	60	0.5	40	<1							70	1	40	1	60	<1
	Haemodorum	*spicatum*			Forb			150	2	20	<1	100	0.2	50	0.1	50	<1			80	<1	20	<1					50	<1
	Hakea	*prostrata*			Shrub																					XX	XX		
	Hakea	*ruscifolia*			Shrub																								
	Hardenbergia	*comptoniana*			Vine	cl	0.1	30	<1			30	0.1	30	0.1	climber	<1												
*	*Heliophila*	*pusilla*			Forb																								
	Hemiandra	*linearis*			Shrub																								

XX = outside quadrat but within 10m of quadrat boundary;

† = species overhanging quadrat; cl = Climber

Weed	Genus	Species	Infra-Rank	Infra- Species	NVIS Lifeform	Quadrat 1 25/09/2016 Height	Quadrat 1 25/09/2016 Cover	Quadrat 1 22/11/2018 Height	Quadrat 1 22/11/2018 Cover	Quadrat 1 12/11/2019 Height	Quadrat 1 12/11/2019 Cover	Quadrat 1 1/10/2020 Height	Quadrat 1 1/10/2020 Cover	Quadrat 1 29/09/2022 Height	Quadrat 1 29/09/2022 Cover	Quadrat 1 8/11/2024 Height	Quadrat 1 8/11/2024 Cover	Quadrat 2 25/09/2016 Height	Quadrat 2 25/09/2016 Cover	Quadrat 2 22/11/2018 Height	Quadrat 2 22/11/2018 Cover	Quadrat 2 12/11/2019 Height	Quadrat 2 12/11/2019 Cover	Quadrat 2 1/10/2020 Height	Quadrat 2 1/10/2020 Cover	Quadrat 2 29/09/2022 Height	Quadrat 2 29/09/2022 Cover	Quadrat 2 8/11/2024 Height	Quadrat 2 8/11/2024 Cover
	Hibbertia	*hypericoides*	subsp.	*hypericoides*	Shrub	30	10	40	6	50	10	45	8	45	8	50	15	40	5	50	6	50	6	40	6	50	6	50	10
	Hibbertia	*racemosa*			Shrub	30	5					40	0.2	40	0.1			30	1					40	0.5	40	0.5		
	Hibbertia	*striata*			Shrub							20	0.1	XX	XX									25	0.1	25	0.1	30	<1
	Homalosciadium	*homalocarpum*			Forb							3	0.1	3	0.1														
	Hovea	*trisperma*			Shrub	30	0.1					40	0.2	30	0.1			30	5					30	0.1	30	0.2	20	<1
	Hyalosperma	*cotula*			Forb							10	0.5	10	0.5			10	1					10	3	10	2	10	<1
	Hybanthus	*calycinus*			Shrub	20	0.1					30	0.1	30	0.5			25	1					40	0.2	40	0.5		
	Hypocalymma	*robustum*			Shrub	60	5	60	1	50	2	80	0.5	100	1	40	<1	40	3	60	<1	50	<1	100	1	100	1	60	<1
*	*Hypochaeris*	*glabra*			Forb	10	0.1					20	1	20	1.5									5	0.1	1	0.1		
	Hypolaena	*exsulca*			Rush									40	0.1														
	Isolepis	*marginata*			Sedge									5	0.1	10	<1												
	Isotropis	*cuneifolia*	subsp.	*cuneifolia*	Forb																								
	Jacksonia	*furcellata*			Shrub													400	2					220	1	350	1	170	1
	Jacksonia	*sericea P4*			Shrub																								
	Jacksonia	*sternbergiana*			Shrub																								
	Kennedia	*prostrata*			Vine																								
	Kunzea	*glabrescens*			Shrub																								
	Lagenophora	*huegelii*			Forb																								
*	*Lagurus*	*ovatus*			Tussock Grass																								
	Laxmannia	*squarrosa*			Forb																								
*	*Leontodon*	*rhagadioloides*			Forb																								
	Lepidobolus	*preissianus*	subsp.	*preissianus*	Rush													20	0.1										
	Lepidosperma	*calcicola*			Sedge			20	<1	60	<1	35	0.2	35	0.2	30	<1			30	<1			50	0.2	40	0.1		
	Lepidosperma	*scabrum*			Sedge									40	0.1									40	0.1	40	0.1		
	Leporella	*fimbriata*			Forb							2	0.1	1	0.1														
	Leptorhynchos	*scaber*			Forb																								
*	*Leptospermum*	*laevigatum*			Shrub																								
	Levenhookia	*pusilla*			Forb																								
	Levenhookia	*stipitata*			Forb																			3	0.1	1	0.1		
	Lobelia	*tenuior*			Forb																								
	Lomandra	*caespitosa*			Forb									30	0.1														
	Lomandra	*hermaphrodita*			Forb							20	0.2	20	0.1									20	0.3	20	0.1	20	<1
	Lomandra	*micrantha*	subsp.	*micrantha*	Forb																								
	Lomandra	*nigricans*			Forb							40	0.1											40	0.1				
	Lomandra	*preissii*			Forb							30	0.2	30	0.2									40	0.1	40	0.1		
	Lomandra	*sericea*			Forb																								
	Lomandra	*suaveolens*			Forb							15	0.3	30	0.1									10	0.1				
*	*Lupinus*	*cosentinii*			Forb																								
	Lyginia	*barbata*			Rush																			70	2	70	2	50	5
	Lyginia	*imberbis*			Rush																								
	Lysiandra	*calycinus*			Shrub																								
*	*Lysimachia*	*arvensis*			Forb																					XX	XX		
	Macarthuria	*australis*			Forb																	30	<1	30	0.1	30	0.1		
	Macrozamia	*fraseri*			Cycad							30	0.1	40	0.1	dead													
	Melaleuca	*systena*			Shrub																								
	Mesomelaena	*pseudostygia*			Sedge	50	10	40	3	20	5	50	5	50	5	50	<1	50	5	100	<1	30	2	70	5	70	3	50	2
	Microlaena	*stipoides*	var.	*stipoides*	Tussock Grass																								
	Microtis	*media*	subsp.	*densiflora*	Forb																								
	Microtis	*media*	subsp.	*media*	Forb									60	0.1	20	<1												
	Millotia	*tenuiflora*			Forb																			5	1.5	10	1.5		
*	*Minuartia*	*mediterranea*			Forb																								
*	*Monoculus*	*monstrosus*			Forb	10	0.1																						
	Monotaxis	*grandiflora*	var.	*grandiflora*	Shrub	30	0.1	30	<1	20	<1	20	0.2	20	0.2			10	2			10	<1	15	1	15	0.2	20	<1
*	*Moraea*	*flaccida*			Forb																								

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Weed	Genus	Species	Infra-Rank	Infra- Species	NVIS Lifeform	Quadrat 1												Quadrat 2									
						25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024		25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024	
						Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover
	Morelotia	*octandra*			Sedge	30	0.1	30	<1	20	<1	30	2	30	2	50	<1									XX	XX		
	Opercularia	*vaginata*			Forb																								
*	*Oxalis*	*pes-caprae*			Forb																								
	Patersonia	*occidentalis*	var.	*occidentalis*	Forb					60	<1	45	0.2	50	0.1									30	0.1	XX	XX		
*	*Pelargonium*	*capitatum*			Shrub							40	0.1	40	0.1														
*	*?Pelargonium*	*capitatum (immat.)*			Shrub																			1	0.1				
	Petrophile	*linearis*			Shrub			20	<1	50	1	60	0.5	60	0.2	40	<1			80	1	20	<1	50	0.5	50	0.1	30	<1
	Petrophile	*macrostachya*			Shrub									XX	XX														
*	*Petrorhagia*	*dubia*			Forb																								
	Philotheca	*spicata*			Shrub	40	1					50	1	60	1														
	Phlebocarya	*ciliata*			Forb																								
	Phyllangium	*paradoxum*			Forb																			5	0.3	5	0.1		
	Pimelea	*ferruginea*			Shrub	30	0.1																						
	Pimelea	*leucantha*			Shrub									XX	XX									40	0.1	60	0.1		
	Pimelea	*sulphurea*			Shrub					20	<1	20	0.1	XX	XX	30	<1												
	Podotheca	*angustifolia*			Forb																								
	Podotheca	*chrysantha*			Forb																								
	Podotheca	*gnaphalioides*			Forb							20	0.1	20	0.1									10	0.1	5	0.1		
*	*Polycarpon*	*tetraphyllum*			Forb																								
	Poranthera	*microphylla*			Forb							5	0.1	2	0.1											3	0.1		
	Poranthera	*moorokatta P2*			Forb																			1	0.1	1	0.1		
	Prasophyllum	*parvifolium*			Forb																					20	0.1	40	<1
	Pterostylis	*recurva*			Forb																			40	0.1	40	0.1		
	Pterostylis	*vittata*			Forb							30	0.1	20	0.1			30	0.1										
	Pterostylis	*vittata/sanguinea*			Forb																								
	Ptilotus	*manglesii*			Forb			10	<1	20	<1	10	0.2	10	0.2	<10	<1	5	0.2	10	<1	20	<1			10	0.1	10	<1
	Pyrorchis	*nigricans*			Forb																								
	Quinetia	*urvillei*			Forb																								
	Rhodanthe	*citrina*			Forb																								
*	*Romulea*	*rosea*			Forb							10	0.1	10	0.1														
*	*Rostraria*	*cristata*			Tussock Grass																								
	Rytidosperma	*occidentale*			Tussock Grass							50	0.1	50	0.1									50	0.3	50	0.3	70	<1
	Rytidosperma	*setaceum*			Tussock Grass																								
	Rytidosperma	*sp.*			Tussock Grass					50	<1											50	<1						
	Scaevola	*canescens*			Shrub																								
	Scaevola	*repens*	var.	*angustifolia*	Shrub					20	<1	10	0.3	10	0.3	10	<1	10	2			20	<1	10	1	10	2	10	2
	Scaevola	*thesioides*	subsp.	*thesioides*	Shrub																								
*	*Senecio*	*vulgaris*			Forb											10	<1												
*	*Silene*	*gallica*	var.	*gallica*	Forb							20	0.1	5	0.1														
*	*Solanum*	*nigrum*			Forb																								
*	*Sonchus*	*oleraceus*			Forb							20	0.1	10	0.1	90	<1							10	0.1	3	0.1		
	Sowerbaea	*laxiflora*			Forb																								
	Stirlingia	*latifolia*			Shrub	40	3	80	<1	50	1	70	1	90	1	50	<1	60	5	50	4	50	4	60	5	60	3	70	<1
	Stylidium	*androsaceum*			Forb							10	0.1	10	0.2									10	0.6	10	0.1		
	Stylidium	*carnosum*			Forb													10	0.1					5	0.1	XX	XX		
	Stylidium	*cygnorum*			Forb									XX	XX									10	1	10	1		
	Stylidium	*neurophyllum*			Forb									45	0.1														
	Stylidium	*piliferum*			Forb									XX	XX			10	0.1			10	<1	20	0.3	50	0.2	Flat	<1
	Stylidium	*schoenoides*			Forb							30	0.1	30	0.1														
	Styphelia	*erubescens*			Shrub											10	<1												
	Thelymitra	*campanulata*			Forb																								
	Thelymitra	*vulgaris*			Forb																								
	Thysanotus	*arbuscula*			Forb			50	<1	20	<1									20	<1					30	0.1		

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						Quadrat 1												Quadrat 2									
						25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024		25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024	
Weed	**Genus**	**Species**	**Infra-Rank**	**Infra- Species**	**NVIS Lifeform**	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover
	Thysanotus	*manglesianus*			Forb																								
	Thysanotus	*multiflorus*			Forb																					XX	XX		
	Thysanotus	*sparteus*			Forb							70	0.1											70	0.1	50	0.1		
	Thysanotus	*thyrsoideus*			Forb	30	1					30	0.3	30	0.2			30	0.1					40	0.3	40	0.1		
	Trachymene	*pilosa*			Forb							10	1	10	0.5	20	5							5	1	5	0.3		
	Tricoryne	*elatior*			Forb																			45	1	45	1		
	Tricoryne	*tenella*			Forb																								
*	*Trifolium*	*arvense*	var.	*arvense*	Forb																								
*	*Trifolium*	*campestre*	var.	*campestre*	Forb																								
	Triglochin	*isingiana*			Forb																								
*	*Urospermum*	*picroides*			Forb							20	0.1	10	0.1														
*	*Ursinia*	*anthemoides*	subsp.	*anthemoides*	Forb	20	0.1	10	<1	20	<1	20	2	20	2	40	1	20	2	10	1	10	<1	15	2	15	0.5	30	<1
	Verticordia	*nitens*			Shrub																								
*	*Vicia*	*sativa*			Forb																								
*	*Vulpia*	*myuros*	forma.	*megalura*	Tussock Grass																								
*	*Wahlenbergia*	*capensis*			Forb									15	0.1	20	<1												
	Wahlenbergia	*preissii*			Forb									10	0.1									10	0.1	10	0.1		
	Waitzia	*suaveolens*	var.	*suaveolens*	Forb			10	<1	20	<1	10	0.1	5	0.1	10	1			10	1	10	<1	10	0.1	10	0.1		
	Xanthorrhoea	*brunonis*	subsp.	*brunonis*	Grasstree							150	9	120	7	110	2									XX	XX		
	Xanthorrhoea	*preissii*			Grasstree	110	10	1	25	100	25	120	1	120	2	110	4							100	0.5	100	0.5		
	Xanthosia	*huegelii*			Shrub	15	0.1					20	0.2	20	0.2	10	<1	20	3					20	2	20	2		

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						Quadrat 3 - burnt in 2024												Quadrat 4											
						25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024		25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024	
Weed	**Genus**	**Species**	**Infra-Rank**	**Infra- Species**	**NVIS Lifeform**	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover
	Acacia	*applanata*			Shrub							20	0.1	20	0.1														
*	*Acacia*	*iteaphylla*			Shrub																								
	Acacia	*lasiocarpa*	var.	*lasiocarpa*	Shrub																								
	Acacia	*pulchella*	var.	*glaberrima*	Shrub													150	0.1	150	2			120	0.5	70	0.3	100	<1
	Acacia	*saligna*			Shrub																								
	Acacia	*sessilis*			Shrub																								
	Adenanthos	*cygnorum*	subsp.	*cygnorum*	Shrub															20	<1					XX	XX		
*	*Aira*	*caryophyllea*			Tussock Grass							10	0.2	10	0.2									10	0.2	10	0.3	20	1
	Alexgeorgea	*nitens*			Rush	15	2					10	2	10	1			10	0.1					10	0.5	10	0.5	10	<1
	Allocasuarina	*fraseriana*			Tree							700	2	700	2			400	0.1	400	2	400	2	500	3	500	5	dead	
	Amphipogon	*turbinatus*			Tussock Grass															30	<1	20	3			40	0.1		
	Anigozanthos	*humilis*	subsp.	*humilis*	Forb																			10	0.1	10	0.1		
	Anigozanthos	*manglesii*	subsp.	*manglesii*	Forb							20	0.1	20	0.1														
*	*Arctotheca*	*calendula*			Forb													10	0.1			20	<1						
	Arnocrinum	*preissii*			Forb																								
	Austrostipa	*?flavescens (immat.)*			Tussock Grass																								
	Austrostipa	*compressa*			Tussock Grass							20	0.1	20	0.1														
*	*Avena*	*barbata*			Tussock Grass	10	0.1	20	<1									15	0.1	30	<1								
	Banksia	*attenuata*			Tree	350	2	500	3	500	4	500	4	500	3			450	10	5	12	500	13	800	20	900	20	10	<1
	Banksia	*dallanneyi*	var.	*dallanneyi*	Shrub																			XX	XX	XX	XX		
	Banksia	*grandis*			Tree																								
	Banksia	*menziesii*			Tree	500	13	300	15	300	15	600	10	600	10									XX	XX	XX	XX		
	Banksia	*sessilis*	var.	*cygnorum*	Shrub																								
	Beaufortia	*elegans*			Shrub																	50	<1	XX	XX	XX	XX		
	Billardiera	*fraseri*			Vine																								
	Bossiaea	*eriocarpa*			Shrub			60	<1	30	<1	50	1	50	1.5			20	0.1	40	2	50	3	50	1	50	1		
	Brachyloma	*preissii*			Shrub	100	1	50	<1			100	1	120	1			40	0.1	20	<1	60	<1	70	1	70	1	80	1
*	*Brassica*	*tournefortii*			Forb																								
*	*Briza*	*maxima*			Tussock Grass			10	<1	20	<1	20	0.2	20	0.3									20	0.8	20	1	20	<1
*	*Bromus*	*diandrus*			Tussock Grass																							30	<1
	Burchardia	*congesta*			Forb	40	0.1							50	0.1			30	0.1					30	0.1	30	0.1		
	Caesia	*micrantha*			Forb																								
	Caladenia	*arenicola*			Forb									10	0.1											30	0.1		
	Caladenia	*flava*	subsp.	*flava*	Forb	15	0.1					15	0.1	20	0.1									15	0.1	15	0.1		
	Calandrinia	*corrigioloides*			Forb																								
	Calandrinia	*granulifera*			Forb									XX	XX														
	Calectasia	*narragara*			Shrub	20	0.1													??	<1					20	0.1		
	Calothamnus	*sanguineus*			Shrub																								
	Calytrix	*flavescens*			Shrub																								
	Calytrix	*fraseri*			Shrub																								
	Carpobrotus	*sp. (sterile)(immat.)*			Forb									3	0.1									5	0.1				
	Carpobrotus	*virescens*			Forb																								
	Centrolepis	*drummondiana*			Forb							10	0.2	5	0.1									6	0.1				
	Centrolepis	*inconspicua*			Sedge							1	0.2	1	0.1														
	Chaetospora	*curvifolius*			Sedge																			30	0.1	30	0.1		
*	*Chamelaucium*	*uncinatum*			Shrub																								
	Comesperma	*calymega*			Shrub			10	<1											10	<1								
	Conospermum	*incurvum*			Shrub																								
	Conospermum	*stoechadis*			Shrub																								
	Conostephium	*pendulum*			Shrub			60	<1	30	<1	50	0.1	40	0.1														
	Conostephium	*preissii*																										40	<1
	Conostylis	*aculeata*	subsp.	*cygnorum*	Forb							40	0.1	20	0.1					XX	<1	20	<1	30	0.3	30	0.3	30	<1
	Conostylis	*aurea*			Forb													15	0.1										
	Conostylis	*juncea*			Forb							20	0.1															20	<1
	Conostylis	*setigera*	subsp.	*setigera*	Forb	10	0.1			10	<1	10	0.1	10	0.1									10	0.3	10	0.2		
	Corynotheca	*micrantha*	var.	*micrantha*	Forb																								
	Crassula	*closiana*			Forb																								

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						Quadrat 3 - burnt in 2024												Quadrat 4											
						25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024		25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024	
Weed	**Genus**	**Species**	**Infra-Rank**	**Infra- Species**	**NVIS Lifeform**	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover
	Crassula	*colorata*	var.	*colorata*	Forb							2	0.1	1	0.1									3	0.1	3	0.1		
*	*Cynodon*	*dactylon*			Grass other																								
*	*Daisy Weed (sterile)*				Forb																			10	0.1				
	Dampiera	*linearis*			Shrub			20	2	20	<1									1	<1	20	<1			10	0.1		
	Dasypogon	*bromeliifolius*			Forb																								
	Daucus	*glochidiatus*			Forb	10	1											10	1							10	0.1	20	<1
	Daviesia	*divaricata*	subsp.	*divaricata*	Shrub																					XX	XX		
	Daviesia	*nudiflora*	subsp.	*nudiflora*	Shrub																			XX	XX	50	0.1		
	Daviesia	*physodes*			Shrub																								
	Daviesia	*triflora*			Shrub	40	0.1	30	<1			50	1	60	1			40	0.1					50	1	50	1.5	70	<1
	Desmocladus	*asper*			Rush							10	0.2	10	0.2														
	Desmocladus	*flexuosus*			Rush			10	<1	30	1	20	3	40	3					20	<1	40	1	20	0.5	20	0.5		
	Dianella	*revoluta*	var.	*divaricata*	Forb															40	<1								
*	*Disa*	*bracteata*			Forb																								
	Diuris	*magnifica*			Forb																								
	Drakaea	*glyptodon*			Forb																								
	Drosera	*erythrorhiza*			Forb	1	0.1					1	0.3	1	0.3			1	1					1	0.3	1	0.1		
	Drosera	*macrantha*			Forb	cl	0.1																						
	Drosera	*micrantha*			Forb																								
	Drosera	*pallida*			Forb																					40	0.1		
	Drosera	*sp. (sterile)(immat.)*			Forb																								
	Drosera	*thyanosepala*			Forb																					60	0.1		
*	*Ehrharta*	*calycina*			Tussock Grass					30	<1	70	0.2	70	0.1														
*	*Ehrharta*	*longiflora*			Tussock Grass																								
	Elythranthera	*brunonis*			Forb							15	0.1	30	0.1									10	0.1	5	0.1		
*	*Eragrostis*	*curvula*			Tussock Grass																								
	Eremaea	*pauciflora*	var.	*pauciflora*	Shrub													60	15	50	20	50	25	70	15	70	10	80	5
*	*Erigeron*	*bonariensis*			Forb																							30	<1
	Eriochilus	*dilatatus*	subsp.	*dilatatus*	Forb							10	0.1	40	0.1									5	0.1	5	0.1		
	Eucalyptus	*marginata*	subsp.	*marginata*	Tree							20	0.1	40	0.1									XX	XX	XX	XX		
*	*Eucalyptus*	*sp. (introduced)*			Tree																								
	Eucalyptus	*todtiana*			Tree																								
*	*Euphorbia*	*peplus*			Forb																								
*	*Euphorbia*	*terracina*			Forb																								
*	*Fumaria*	*capreolata*			Forb																								
*	*Fumaria*	*muralis*			Forb																								
*	*Galium*	*murale*			Forb																								
	Gastrolobium	*linearifolium*			Shrub							30	0.1	30	0.1			40	0.1					40	0.1	40	0.1		
*	*Geranium*	*dissectum*			Forb																								
*	*Gladiolus*	*caryophyllaceus*			Forb	60	0.1	80	<1			90	0.2	60	0.1			100	0.1	80	<1	50	<1	120	0.2	120	0.1	60	<1
	Gompholobium	*confertum*			Shrub																								
	Gompholobium	*tomentosum*			Shrub							20	0.1	20	0.2											15	0.1		
	Grevillea	*crithmifolia*			Shrub																								
	Haemodorum	*laxum*			Forb	50	0.1							50	0.2			50	0.1					50	0.3	50	0.3	40	<1
	Haemodorum	*spicatum*			Forb			60	<1	20	<1									50	<1	30	<1			XX	XX		
	Hakea	*prostrata*			Shrub																								
	Hakea	*ruscifolia*			Shrub																								
	Hardenbergia	*comptoniana*			Vine																								
*	*Heliophila*	*pusilla*			Forb																								
	Hemiandra	*linearis*			Shrub																								
	Hibbertia	*hypericoides*	subsp.	*hypericoides*	Shrub	50	30	50	30	50	30	70	25	70	25			50	15	50	15	50	15	50	15	50	15	50	20
	Hibbertia	*racemosa*			Shrub																								
	Hibbertia	*striata*			Shrub	15	0.1	50	<1			10	0.1	10	0.1			30	1	20	<1	50	2	30	0.5	30	0.2		
	Homalosciadium	*homalocarpum*			Forb																			3	0.1	3	0.1	<10	<1
	Hovea	*trisperma*			Shrub	30	0.1					20	0.1																
	Hyalosperma	*cotula*			Forb	15	2					10	2	15	1			10	2					10	2	10	1		

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						Quadrat 3 - burnt in 2024												Quadrat 4											
						25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024		25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024	
Weed	**Genus**	**Species**	**Infra-Rank**	**Infra- Species**	**NVIS Lifeform**	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover
	Hybanthus	*calycinus*			Shrub	30	1					30	1	30	1											XX	XX		
	Hypocalymma	*robustum*			Shrub			30	<1	50	<1	60	0.2	100	1					50	<1	20	<1			XX	XX		
*	*Hypochaeris*	*glabra*			Forb	10	0.1					15	0.1	1	0.1			10	2					10	0.2	10	0.5	Flat	<1
	Hypolaena	*exsulca*			Rush	30	0.1																			40	0.1		
	Isolepis	*marginata*			Sedge							5	0.2	3	0.1									5	0.1				
	Isotropis	*cuneifolia*	subsp.	*cuneifolia*	Forb	10	0.1					10	0.1	10	0.1			10	0.1					10	0.1	20	0.2	10	<1
	Jacksonia	*furcellata*			Shrub																								
	Jacksonia	*sericea P4*			Shrub																								
	Jacksonia	*sternbergiana*			Shrub																					XX	XX		
	Kennedia	*prostrata*			Vine							5	0.1	5	0.1											XX	XX		
	Kunzea	*glabrescens*			Shrub							XX	XX	XX	XX									XX	XX	XX	XX		
	Lagenophora	*huegelii*			Forb							XX	XX	XX	XX														
*	*Lagurus*	*ovatus*			Tussock Grass																								
	Laxmannia	*squarrosa*			Forb																								
*	*Leontodon*	*rhagadioloides*			Forb																								
	Lepidobolus	*preissianus*	subsp.	*preissianus*	Rush							40	0.8	40	1									50	1	50	0.1	50	<1
	Lepidosperma	*calcicola*			Sedge									30	0.1											30	0.1		
	Lepidosperma	*scabrum*			Sedge							70	0.1	70	0.1									30	0.1	40	0.2		
	Leporella	*fimbriata*			Forb							3	0.1	1	0.1														
	Leptorhynchos	*scaber*			Forb													20	0.1										
*	*Leptospermum*	*laevigatum*			Shrub																								
	Levenhookia	*pusilla*			Forb																								
	Levenhookia	*stipitata*			Forb																								
	Lobelia	*tenuior*			Forb			10	<1											50	<1								
	Lomandra	*caespitosa*			Forb							20	0.2	20	0.2											30	0.1		
	Lomandra	*hermaphrodita*			Forb							30	0.1	25	0.1									15	0.2	15	0.2		
	Lomandra	*micrantha*	subsp.	*micrantha*	Forb	30	0.1											40	0.1										
	Lomandra	*nigricans*			Forb																								
	Lomandra	*preissii*			Forb									40	0.1														
	Lomandra	*sericea*			Forb							25	0.1	35	0.1									30	0.1	30	0.1	30	<1
	Lomandra	*suaveolens*			Forb							15	0.3	10	0.1									15	0.3				
*	*Lupinus*	*cosentinii*			Forb																								
	Lyginia	*barbata*			Rush																								
	Lyginia	*imberbis*			Rush			70	<1	30	<1	50	0.1	50	0.1					60	<1					60	0.1		
	Lysiandra	*calycinus*			Shrub																								
*	*Lysimachia*	*arvensis*			Forb									3	0.1									10	0.1	10	0.1	20	<1
	Macarthuria	*australis*			Forb																								
	Macrozamia	*fraseri*			Cycad							120	1	120	1														
	Melaleuca	*systena*			Shrub																								
	Mesomelaena	*pseudostygia*			Sedge	40	3	40	6	50	8	60	5	60	5			30	20	50	15	50	15	60	18	60	18	50	30
	Microlaena	*stipoides*	var.	*stipoides*	Tussock Grass									10	0.1														
	Microtis	*media*	subsp.	*densiflora*	Forb																								
	Microtis	*media*	subsp	*media*	Forb																								
	Millotia	*tenuiflora*			Forb																								
*	*Minuartia*	*mediterranea*			Forb																								
*	*Monoculus*	*monstrosus*			Forb																							40	<1
	Monotaxis	*grandiflora*	var.	*grandiflora*	Shrub			10	<1	30	<1																		
*	*Moraea*	*flaccida*			Forb																								
	Morelotia	*octandra*			Sedge	20	0.1					20	0.5	20	0.5			20	0.1					20	0.5	20	0.5	30	<1
	Opercularia	*vaginata*			Forb							20	0.2	20	0.2									20	0.1	40	0.1		
*	*Oxalis*	*pes-caprae*			Forb																								
	Patersonia	*occidentalis*	var.	*occidentalis*	Forb	50	0.1					50	1	50	1			30	0.1	60	<1	40	<1	50	0.5	50	0.2		
*	*Pelargonium*	*capitatum*			Shrub																								
*	*?Pelargonium*	*capitatum (immat.)*			Shrub																			5	0.1	5	0.1	10	<1
	Petrophile	*linearis*			Shrub			30	<1	20	<1	30	0.1	30	0.1			40	0.1	50	<1	30	<1	40	0.2	40	0.2	30	<1
	Petrophile	*macrostachya*			Shrub			40	<1	50	1													XX	XX	XX	XX		

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						Quadrat 3 - burnt in 2024												Quadrat 4									
						25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024		25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024	
Weed	**Genus**	**Species**	**Infra-Rank**	**Infra- Species**	**NVIS Lifeform**	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover
*	*Petrorhagia*	*dubia*			Forb																								
	Philotheca	*spicata*			Shrub							30	0.1	40	0.1									40	0.3	40	0.1		
	Phlebocarya	*ciliata*			Forb																								
	Phyllangium	*paradoxum*			Forb							5	0.2	5	0.1														
	Pimelea	*ferruginea*			Shrub																								
	Pimelea	*leucantha*			Shrub																								
	Pimelea	*sulphurea*			Shrub	40	0.1	20	<1	20	<1	70	0.1	50	0.1			40	1	XX	<1	20	<1	50	0.1	70	0.1		
	Podotheca	*angustifolia*			Forb																								
	Podotheca	*chrysantha*			Forb							20	0.1	10	0.1											XX	XX		
	Podotheca	*gnaphalioides*			Forb	20	0.1							15	0.1			20	0.1					35	0.1	20	0.1	30	<1
*	*Polycarpon*	*tetraphyllum*			Forb																								
	Poranthera	*microphylla*			Forb							6	0.1	6	0.1														
	Poranthera	*moorokatta P2*			Forb							1	0.1																
	Prasophyllum	*parvifolium*			Forb																								
	Pterostylis	*recurva*			Forb							2	0.1	25	0.1														
	Pterostylis	*vittata*			Forb																			10	0.1	10	0.1		
	Pterostylis	*vittata/sanguinea*			Forb																								
	Ptilotus	*manglesii*			Forb			20	<1	10	<1									20	<1	20	<1	1	0.1	5	0.1	10	<1
	Pyrorchis	*nigricans*			Forb							XX	XX	1	0.1									3	0.1	1	0.1		
	Quinetia	*urvillei*			Forb							10	0.2	10	0.2											4	0.1		
	Rhodanthe	*citrina*			Forb																								
*	*Romulea*	*rosea*			Forb																								
*	*Rostraria*	*cristata*			Tussock Grass																								
	Rytidosperma	*occidentale*			Tussock Grass							5	0.1	5	0.1									40	0.2	10	0.1		
	Rytidosperma	*setaceum*			Tussock Grass																					21			
	Rytidosperma	*sp.*			Tussock Grass					30	<1											30	<1						
	Scaevola	*canescens*			Shrub																								
	Scaevola	*repens*	var.	*angustifolia*	Shrub	10	1			10	<1	10	2	10	2			10	2			20	<1	10	2	10	2	10	<1
	Scaevola	*thesioides*	subsp	*thesioides*	Shrub																								
*	*Senecio*	*vulgaris*			Forb																								
*	*Silene*	*gallica*	var.	*gallica*	Forb																			XX	XX	10	0.1		
*	*Solanum*	*nigrum*			Forb																								
*	*Sonchus*	*oleraceus*			Forb									15	0.1									10	0.2	10	0.2	40	<1
	Sowerbaea	*laxiflora*			Forb																					XX	XX		
	Stirlingia	*latifolia*			Shrub	130	5	70	5	50	6	70	3	70	2									50	0.6	30	0.1	20	<1
	Stylidium	*androsaceum*			Forb	10	0.1					10	0.3	10	0.3									10	0.5	10	0.2		
	Stylidium	*carnosum*			Forb													10	1										
	Stylidium	*cygnorum*			Forb																			5	0.1	5	0.1		
	Stylidium	*neurophyllum*			Forb																								
	Stylidium	*piliferum*			Forb	25	0.1	10	<1	20	<1	35	0.2	20	0.1			20	0.1	10	<1			20	0.2	20	0.1		
	Stylidium	*schoenoides*			Forb							30	0.1																
	Styphelia	*erubescens*			Shrub																								
	Thelymitra	*campanulata*			Forb	25	0.1																			XX	XX		
	Thelymitra	*vulgaris*			Forb																								
	Thysanotus	*arbuscula*			Forb																								
	Thysanotus	*manglesianus*			Forb																								
	Thysanotus	*multiflorus*			Forb																								
	Thysanotus	*sparteus*			Forb							70	0.2	70	0.2									70	0.1				
	Thysanotus	*thyrsoideus*			Forb							50	0.2	50	0.1											30	0.1		
	Trachymene	*pilosa*			Forb							10	1	10	1									10	1	10	0.2	20	<1
	Tricoryne	*elatior*			Forb					30	<1	50	0.2	30	0.1													40	<1
	Tricoryne	*tenella*			Forb																								
*	*Trifolium*	*arvense*	var.	*arvense*	Forb																								
*	*Trifolium*	*campestre*	var.	*campestre*	Forb																			10	0.1	10	0.1	<10	<1
	Triglochin	*isingiana*			Forb																								
*	*Urospermum*	*picroides*			Forb																					10	0.1		

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						Quadrat 3 - burnt in 2024												Quadrat 4											
						25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024		25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024	
Weed	**Genus**	**Species**	**Infra-Rank**	**Infra- Species**	**NVIS Lifeform**	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover
*	*Ursinia*	*anthemoides*	subsp.	*anthemoides*	Forb	15	0.1					20	0.2	30	0.2			30	1	5	<1	10	<1	20	1	20	1	30	<1
	Verticordia	*nitens*			Shrub																								
*	*Vicia*	*sativa*			Forb																								
*	*Vulpia*	*myuros*	forma	*megalura*	Tussock Grass							15	0.2	10	0.2									20	0.2	20	0.2	30	1,1
*	*Wahlenbergia*	*capensis*			Forb																					10	0.1		
	Wahlenbergia	*preissii*			Forb							10	0.1	10	0.1									5	0.1				
	Waitzia	*suaveolens*	var.	*suaveolens*	Forb			20	<1	10	<1	15	0.1	10	0.1					10	<1	20	<1			10	0.1	20	<1
	Xanthorrhoea	*brunonis*	subsp.	*brunonis*	Grasstree							90	0.8	90	1														
	Xanthorrhoea	*preissii*			Grasstree	170	25	150	20	150	25	170	12	190	10			170	10	200	9	150	8	150	8	150	8	150	1
	Xanthosia	*huegelii*			Shrub							10	0.3	10	0.1									20	0.1	20	0.2		

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Weed	Genus	Species	Infra-Rank	Infra- Species	NVIS Lifeform	Quadrat 5												Quadrat 6											
						25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024		25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024	
						Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover
	Acacia	*applanata*			Shrub							20	0.1	20	0.1														
*	*Acacia*	*iteaphylla*			Shrub																								
	Acacia	*lasiocarpa*	var.	*lasiocarpa*	Shrub																								
	Acacia	*pulchella*	var.	*glaberrima*	Shrub																					XX	XX		
	Acacia	*saligna*			Shrub																								
	Acacia	*sessilis*			Shrub							40	0.1	40	0.1														
	Adenanthos	*cygnorum*	subsp.	*cygnorum*	Shrub																								
*	*Aira*	*caryophyllea*			Tussock Grass					10	<1	10	0.1	10	0.2									10	0.2	5	0.1	10	<1
	Alexgeorgea	*nitens*			Rush	20	0.1					10	0.2	10	0.5	10	<1							10	0.4	10	0.4	10	1
	Allocasuarina	*fraseriana*			Tree	600	2	600	3	600	2	600	3	700	4	160	<1	600	10	700	10	700	9	700	10	700	10	100	2
	Amphipogon	*turbinatus*			Tussock Grass																								
	Anigozanthos	*humilis*	subsp.	*humilis*	Forb	15	0.1	30	<1			20	0.1	20	0.1														
	Anigozanthos	*manglesii*	subsp.	*manglesii*	Forb							50	0.1	60	0.1			80	0.1										
*	*Arctotheca*	*calendula*			Forb																								
	Arnocrinum	*preissii*			Forb							20	0.1																
	Austrostipa	*?flavescens (immat.)*			Tussock Grass											100	<1												
	Austrostipa	*compressa*			Tussock Grass							20	0.1	20	0.1									20	0.1	15	0.1		
*	*Avena*	*barbata*			Tussock Grass	20	0.1	50	<1																	20	0.1		
	Banksia	*attenuata*			Tree	500	12	500	10	500	11	500	8	500	9	500	5	50	0.1	200	<1	150	2	200	0.1	250	0.2	300	1
	Banksia	*dallanneyi*	var.	*dallanneyi*	Shrub																								
	Banksia	*grandis*			Tree																								
	Banksia	*menziesii*			Tree	350	1	400	2	400	2	400	3	500	3	450	4							300	1	300	1	400	
	Banksia	*sessilis*	var.	*cygnorum*	Shrub																								
	Beaufortia	*elegans*			Shrub																								
	Billardiera	*fraseri*			Vine																			40	0.1	40	0.1		
	Bossiaea	*eriocarpa*			Shrub	30	0.1	20	<1	50	1	30	1	30	1	30	<1	25	1	60	3	60	5	40	2	40	2	40	<1
	Brachyloma	*preissii*			Shrub			50	<1	40	<1	40	0.2	40	0.2	70	<1											70	<1
*	*Brassica*	*tournefortii*			Forb																								
*	*Briza*	*maxima*			Tussock Grass					20	<1	30	0.2	30	0.3	20	1							20	0.2	10	0.1	40	<1
*	*Bromus*	*diandrus*			Tussock Grass																								
	Burchardia	*congesta*			Forb	140	0.1					40	0.1	50	0.1							50	<1	40	0.1	40	0.1		
	Caesia	*micrantha*			Forb																					XX	XX		
	Caladenia	*arenicola*			Forb																					30	0.1		
	Caladenia	*flava*	subsp.	*flava*	Forb	15	1					15	0.2	15	0.1			15	0.1					15	0.1	15	0.1		
	Calandrinia	*corrigioloides*			Forb																								
	Calandrinia	*granulifera*			Forb																								
	Calectasia	*narragara*			Shrub																								
	Calothamnus	*sanguineus*			Shrub																								
	Calytrix	*flavescens*			Shrub									XX	XX											XX	XX		
	Calytrix	*fraseri*			Shrub																								
	Carpobrotus	*edulis*			Forb											10	<1									3	0.1		
	Carpobrotus	*virescens*			Forb	10	0.1					10	0.1	30	0.1														
	Centrolepis	*drummondiana*			Forb									5	0.1									5	1	5	1		
	Centrolepis	*inconspicua*			Sedge									1	0.1									1	0.1				
	Chaetospora	*curvifolius*			Sedge							20	0.1	20	0.1														
*	*Chamelaucium*	*uncinatum*			Shrub																								
	Comesperma	*calymega*			Shrub			10	<1	20	<1	20	0.1	60	0.1														
	Conospermum	*incurvum*			Shrub																								
	Conospermum	*stoechadis*			Shrub																								
	Conostephium	*pendulum*			Shrub									30	0.1	20	<1							20	0.1	20	0.2	20	<1
	Conostephium	*preissii*														30	<1												
	Conostylis	*aculeata*	subsp.	*cygnorum*	Forb	30	1	30	<1			30	0.1	30	0.1	20	<1			20	<1			20	0.1	20	0.1	30	<1
	Conostylis	*aurea*			Forb																								
	Conostylis	*juncea*			Forb							20	0.1	XX	XX									20	0.1	20	0.1		
	Conostylis	*setigera*	subsp.	*setigera*	Forb	15	0.1	10	<1			10	0.2	10	0.1	10	<1	10	0.1	10	<1	20	<1	10	0.1	10	0.1	10	<1
	Corynotheca	*micrantha*	var.	*micrantha*	Forb																								
	Crassula	*closiana*			Forb																								

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						Quadrat 5												Quadrat 6									
						25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024		25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024	
Weed	**Genus**	**Species**	**Infra-Rank**	**Infra- Species**	**NVIS Lifeform**	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover
	Crassula	*colorata*	var.	*colorata*	Forb	5	0.1	20	<1			5	0.2	3	0.1			5	0.1	10	<1	20	<1	3	0.2	3	0.1		
*	*Cynodon*	*dactylon*			Grass other																								
*	*Daisy weed (sterile)*				Forb																								
	Dampiera	*linearis*			Shrub			40	<1	30	<1	40	0.2	40	0.2	20	<1							10	0.1	XX	XX		
	Dasypogon	*bromeliifolius*			Forb	5	0.1					30	0.1	30	0.1														
	Daucus	*glochidiatus*			Forb	10	1											10	2										
	Daviesia	*divaricata*	subsp.	*divaricata*	Shrub									XX	XX														
	Daviesia	*nudiflora*	subsp.	*nudiflora*	Shrub																								
	Daviesia	*physodes*			Shrub																								
	Daviesia	*triflora*			Shrub	40	0.1					40	0.3	50	0.6	70	<1							XX	XX	XX	XX		
	Desmocladus	*asper*			Rush																			10	0.2	15	0.2		
	Desmocladus	*flexuosus*			Rush			20	<1	50	<1	20	1	20	1					20	<1	40	<1	30	1	30	1		
	Dianella	*revoluta*	var.	*divaricata*	Forb			50	<1	40	<1	20	0.1			10	<1												
*	*Disa*	*bracteata*			Forb																								
	Diuris	*magnifica*			Forb																					XX	XX		
	Drakaea	*glyptodon*			Forb	5	0.1																						
	Drosera	*erythrorhiza*			Forb	1	1					0.1	0.2	1	0.2	Flat	<1	1	0.1					1	0.2	1	0.2		
	Drosera	*macrantha*			Forb																								
	Drosera	*micrantha*			Forb							1	0.1	1	0.1														
	Drosera	*pallida*			Forb							70	0.1											70	0.1	70	0.1		
	Drosera	*sp. (sterile)(immat.)*			Forb																								
	Drosera	*thyanosepala*			Forb	cl	0.1							30	0.1			cl	0.1							40	0.1		
*	*Ehrharta*	*calycina*			Tussock Grass					20	<1	50	0.1	70	0.1									70	0.1	40	0.1		
*	*Ehrharta*	*longiflora*			Tussock Grass																								
	Elythranthera	*brunonis*			Forb	20	0.1					20	0.1	5	0.1			20	0.1					15	0.1	15	0.1		
*	*Eragrostis*	*curvula*			Tussock Grass																								
	Eremaea	*pauciflora*	var.	*pauciflora*	Shrub															40	<1	50	1	50	0.1	50	0.1	50	<1
*	*Erigeron*	*bonariensis*			Forb																								
	Eriochilus	*dilatatus*	subsp.	*dilatatus*	Forb							2	0.1	10	0.1									5	0.1	20	0.1		
	Eucalyptus	*marginata*	subsp.	*marginata*	Tree							XX	XX	XX	XX			1000	10	1000	10	1000	10	1000	10	1100	10	1800	5
*	*Eucalyptus*	*sp. (introduced)*			Tree																								
	Eucalyptus	*todtiana*			Tree																								
*	*Euphorbia*	*peplus*			Forb																								
*	*Euphorbia*	*terracina*			Forb																								
*	*Fumaria*	*capreolata*			Forb																								
*	*Fumaria*	*muralis*			Forb																								
*	*Galium*	*murale*			Forb																								
	Gastrolobium	*linearifolium*			Shrub							30	0.1	30	0.1	40	<1							40	0.2	40	0.1	30	<1
*	*Geranium*	*dissectum*			Forb																								
*	*Gladiolus*	*caryophyllaceus*			Forb	100	0.1	50	<1	60	<1	40	0.2	90	0.1	40	<1	80	0.1	80	<1	70	<1	50	0.1	90	0.1	50	<1
	Gompholobium	*confertum*			Shrub																								
	Gompholobium	*tomentosum*			Shrub			40	<1	30	<1	50	0.5	70	0.5	40	<1							7	0.1	10	0.1	10	<1
	Grevillea	*crithmifolia*			Shrub																								
	Haemodorum	*laxum*			Forb	60	0.1					120	0.3	60	0.3	20	<1	80	0.1					70	0.5	60	0.5	40	1
	Haemodorum	*spicatum*			Forb															80	<1	60	<1						
	Hakea	*prostrata*			Shrub																								
	Hakea	*ruscifolia*			Shrub																								
	Hardenbergia	*comptoniana*			Vine																								
*	*Heliophila*	*pusilla*			Forb																								
	Hemiandra	*linearis*			Shrub																								
	Hibbertia	*hypericoides*	subsp.	*hypericoides*	Shrub	50	12	50	10	50	9	80	12	80	12	40	30	50	17	80	16	80	15	90	15	90	15	50	30
	Hibbertia	*racemosa*			Shrub																								
	Hibbertia	*striata*			Shrub	20	1	?	<1	30	1	20	0.1	20	0.1	20	<1												
	Homalosciadium	*homalocarpum*			Forb																					2	0.1		
	Hovea	*trisperma*			Shrub							30	0.1	40	0.1	20	<1							20	0.1	20	0.1	40	<1
	Hyalosperma	*cotula*			Forb	10	5					10	0.3	10	0.2	10	<1	10	0.1					10	1	10	1	10	<1
	Hybanthus	*calycinus*			Shrub	20	1					30	1	30	0.1											XX	XX		

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Weed	Genus	Species	Infra-Rank	Infra- Species	NVIS Lifeform	Quadrat 5 25/09/2016 Height	Quadrat 5 25/09/2016 Cover	Quadrat 5 22/11/2018 Height	Quadrat 5 22/11/2018 Cover	Quadrat 5 12/11/2019 Height	Quadrat 5 12/11/2019 Cover	Quadrat 5 1/10/2020 Height	Quadrat 5 1/10/2020 Cover	Quadrat 5 29/09/2022 Height	Quadrat 5 29/09/2022 Cover	Quadrat 5 8/11/2024 Height	Quadrat 5 8/11/2024 Cover	Quadrat 6 25/09/2016 Height	Quadrat 6 25/09/2016 Cover	Quadrat 6 22/11/2018 Height	Quadrat 6 22/11/2018 Cover	Quadrat 6 12/11/2019 Height	Quadrat 6 12/11/2019 Cover	Quadrat 6 1/10/2020 Height	Quadrat 6 1/10/2020 Cover	Quadrat 6 29/09/2022 Height	Quadrat 6 29/09/2022 Cover	Quadrat 6 8/11/2024 Height	Quadrat 6 8/11/2024 Cover
	Hypocalymma	*robustum*			Shrub	90	1					90	1	90	1	60	<1	30	0.1	60	<1	30	<1	30	0.2	40	1	40	<1
*	*Hypochaeris*	*glabra*			Forb	5	3					5	0.3	1	0.2	Flat	<1							10	0.2	10	0.3		
	Hypolaena	*exsulca*			Rush			40	<1	80	<1	40	1	40	1.5									XX	XX	XX	XX		
	Isolepis	*marginata*			Sedge							5	0.1	5	0.1									5	0.2	5	0.1		
	Isotropis	*cuneifolia*	subsp.	*cuneifolia*	Forb																								
	Jacksonia	*furcellata*			Shrub																								
	Jacksonia	*sericea P4*			Shrub																								
	Jacksonia	*sternbergiana*			Shrub	30	0.1	100	<1	100	<1	250	1	350	1	200	1												
	Kennedia	*prostrata*			Vine					10	<1	10	0.1	10	0.1	<10	<1	pr	0.1	10	<1	10	<1	10	0.5	10	0.1		
	Kunzea	*glabrescens*			Shrub																								
	Lagenophora	*huegelii*			Forb													10	0.1					10	0.1	10	0.1	Flat	<1
*	*Lagurus*	*ovatus*			Tussock Grass																								
	Laxmannia	*squarrosa*			Forb																								
*	*Leontodon*	*rhagadioloides*			Forb																								
	Lepidobolus	*preissianus*	subsp.	*preissianus*	Rush													40	0.1										
	Lepidosperma	*calcicola*			Sedge							30	0.1	30	0.1									30	0.1				
	Lepidosperma	*scabrum*			Sedge							60	0.1	60	0.1									50	0.1	50	0.1		
	Leporella	*fimbriata*			Forb							2	0.1	2	0.1									2	0.1	1	0.1		
	Leptorhynchos	*scaber*			Forb	30	0.1																						
*	*Leptospermum*	*laevigatum*			Shrub																								
	Levenhookia	*pusilla*			Forb																					3	0.1		
	Levenhookia	*stipitata*			Forb																								
	Lobelia	*tenuior*			Forb															5	<1								
	Lomandra	*caespitosa*			Forb							20	0.2	0	0.1											25	0.1		
	Lomandra	*hermaphrodita*			Forb							20	0.1											20	0.2	15	0.1	30	<1
	Lomandra	*micrantha*	subsp.	*micrantha*	Forb													20	0.1									10	<1
	Lomandra	*nigricans*			Forb																								
	Lomandra	*preissii*			Forb									XX	XX														
	Lomandra	*sericea*			Forb							40	0.1	40	0.1	40	<1							40	0.3	40	0.3		
	Lomandra	*suaveolens*			Forb																					10	0.1		
*	*Lupinus*	*cosentinii*			Forb																								
	Lyginia	*barbata*			Rush											50	<1											50	2
	Lyginia	*imberbis*			Rush							50	1	50	1.5					80	0.5	30	<1	50	1	60	1.5		
	Lysiandra	*calycinus*			Shrub																								
*	*Lysimachia*	*arvensis*			Forb									5	0.1														
	Macarthuria	*australis*			Forb					10	<1	40	1	40	1														
	Macrozamia	*fraseri*			Cycad																								
	Melaleuca	*systena*			Shrub																								
	Mesomelaena	*pseudostygia*			Sedge	40	0.1			40	<1	40	2	40	3	50	10	40	0.1	50	<1	30	<1	50	2	50	2	50	5
	Microlaena	*stipoides*	var.	*stipoides*	Tussock Grass																								
	Microtis	*media*	subsp.	*densiflora*	Forb																								
	Microtis	*media*	subsp	*media*	Forb																								
	Millotia	*tenuiflora*			Forb																			10	0.3	10	0.3		
*	*Minuartia*	*mediterranea*			Forb																								
*	*Monoculus*	*monstrosus*			Forb																								
	Monotaxis	*grandiflora*	var.	*grandiflora*	Shrub															10	<1								
*	*Moraea*	*flaccida*			Forb																								
	Morelotia	*octandra*			Sedge	30	0.1					20	0.5	20	1	50	<1	30	2					30	0.3	30	0.3	30	<1
	Opercularia	*vaginata*			Forb							30	0.2	30	0.2	30	<1							20	0.2	30	0.2	30	1
*	*Oxalis*	*pes-caprae*			Forb																								
	Patersonia	*occidentalis*	var.	*occidentalis*	Forb	40	1	60	<1	40	<1	40	1	50	1	50	<1									XX	XX		
*	*Pelargonium*	*capitatum*			Shrub											<10	<1												
*	*?Pelargonium*	*capitatum (immat.)*			Shrub																					6	0.1		
	Petrophile	*linearis*			Shrub	50	0.1			30	<1	40	0.2	40	0.1	30	<1	30	0.1	80	<1	50	<1	50	0.1	50	0.1	50	<1
	Petrophile	*macrostachya*			Shrub									XX	XX							20	<1	XX	XX	XX	XX		
*	*Petrorhagia*	*dubia*			Forb	20	0.1							XX	XX														

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						Quadrat 5												Quadrat 6									
						25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024		25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024	
Weed	**Genus**	**Species**	**Infra-Rank**	**Infra- Species**	**NVIS Lifeform**	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover
	Philotheca	*spicata*			Shrub							40	0.1	40	0.2									30	0.1	50	0.1		
	Phlebocarya	*ciliata*			Forb			100	<1	40	<1	40	0.5	40	0.5														
	Phyllangium	*paradoxum*			Forb							5	0.1	5	0.1									5	0.2	5	0.1		
	Pimelea	*ferruginea*			Shrub																								
	Pimelea	*leucantha*			Shrub											30	<1												
	Pimelea	*sulphurea*			Shrub	30	0.1					20	0.2	30	0.2									20	0.1	40	0.1		
	Podotheca	*angustifolia*			Forb							5	0.1	3	0.1									10	0.1				
	Podotheca	*chrysantha*			Forb																			20	0.1	20	0.1		
	Podotheca	*gnaphalioides*			Forb	20	2					30	0.2	30	0.2			10	0.1					30	0.1	10	0.1		
*	*Polycarpon*	*tetraphyllum*			Forb																								
	Poranthera	*microphylla*			Forb							5	0.1																
	Poranthera	*moorokatta P2*			Forb							1	0.1	1	0.1														
	Prasophyllum	*parvifolium*			Forb																								
	Pterostylis	*recurva*			Forb									40	0.1									10	0.1	40	0.1		
	Pterostylis	*vittata*			Forb							40	0.1	30	0.1														
	Pterostylis	*vittata/sanguinea*			Forb																								
	Ptilotus	*manglesii*			Forb															10	<1	30	<1						
	Pyrorchis	*nigricans*			Forb	1	0.1					3	0.1	1	0.1														
	Quinetia	*urvillei*			Forb							5	0.1	5	0.1											5	0.1		
	Rhodanthe	*citrina*			Forb																								
*	*Romulea*	*rosea*			Forb																								
*	*Rostraria*	*cristata*			Tussock Grass																								
	Rytidosperma	*occidentale*			Tussock Grass																			40	0.1	40	0.1	40	<1
	Rytidosperma	*setaceum*			Tussock Grass									40	0.1														
	Rytidosperma	*sp.*			Tussock Grass					40	<1																		
	Scaevola	*canescens*			Shrub																								
	Scaevola	*repens*	var.	*angustifolia*	Shrub	10	0.1			20	<1	10	0.1	10	0.5	10	<1									XX	XX		
	Scaevola	*thesioides*	subsp	*thesioides*	Shrub																								
*	*Senecio*	*vulgaris*			Forb																								
*	*Silene*	*gallica*	var.	*gallica*	Forb																								
*	*Solanum*	*nigrum*			Forb																								
*	*Sonchus*	*oleraceus*			Forb	15	0.1					2	0.1	15	0.1									3	0.1	3	0.1		
	Sowerbaea	*laxiflora*			Forb	10	1					30	0.2	40	1			40	0.1					40	0.3	40	0.5		
	Stirlingia	*latifolia*			Shrub	130	10	80	12	80	14	80	4	80	4	40	1	80	13	100	12	100	12	90	3	90	3	50	1
	Stylidium	*androsaceum*			Forb							10	0.3	10	0.1	10	<1							10	0.3	10	0.3		
	Stylidium	*carnosum*			Forb	5	1											5	0.1										
	Stylidium	*cygnorum*			Forb																								
	Stylidium	*neurophyllum*			Forb																								
	Stylidium	*piliferum*			Forb			30	<1	10	<1	5	0.1	30	0.2	<10	<1												
	Stylidium	*schoenoides*			Forb																			20	0.1				
	Styphelia	*erubescens*			Shrub																					50	0.1		
	Thelymitra	*campanulata*			Forb																								
	Thelymitra	*vulgaris*			Forb																								
	Thysanotus	*arbuscula*			Forb							50	0.1	30	0.1									60	0.1	60	0.1		
	Thysanotus	*manglesianus*			Forb																								
	Thysanotus	*multiflorus*			Forb																								
	Thysanotus	*sparteus*			Forb									90	0.1	80	<1									70	0.1		
	Thysanotus	*thyrsoideus*			Forb							30	0.1	30	0.1	50	<1							30	0.1	30	0.1	40	<1
	Trachymene	*pilosa*			Forb							10	0.5	5	0.1	10	<1							10	0.3	10	0.1		
	Tricoryne	*elatior*			Forb																								
	Tricoryne	*tenella*			Forb																								
*	*Trifolium*	*arvense*	var.	*arvense*	Forb																								
*	*Trifolium*	*campestre*	var.	*campestre*	Forb																								
	Triglochin	*isingiana*			Forb																								
*	*Urospermum*	*picroides*			Forb																								
*	*Ursinia*	*anthemoides*	subsp.	*anthemoides*	Forb	30	3	5	<1	20	<1	20	1.5	20	1.5	30	2	30	0.1	30	<1	20	<1	20	0.3	30	1	20	1

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Weed	Genus	Species	Infra-Rank	Infra- Species	NVIS Lifeform	Quadrat 5												Quadrat 6											
						25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024		25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024	
						Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover
	Verticordia	*nitens*			Shrub																								
*	*Vicia*	*sativa*			Forb																								
*	*Vulpia*	*myuros*	forma	*megalura*	Tussock Grass							30	0.1	30	0.2									10	0.1	20	0.1		
*	*Wahlenbergia*	*capensis*			Forb																								
	Wahlenbergia	*preissii*			Forb							20	0.1	10	0.1									10	0.3	10	0.1		
	Waitzia	*suaveolens*	var.	*suaveolens*	Forb			10	<1	20	<1			10	0.2	30	<1			20	<1	10	<1			10	0.1	30	<1
	Xanthorrhoea	*brunonis*	subsp.	*brunonis*	Grasstree							100	0.5	100	0.5	100	<1							XX	XX	XX	XX		
	Xanthorrhoea	*preissii*			Grasstree	150	10	200	12	200	9	150	6	150	6	140	3	180	10	190	10	180	8	200	8	200	5	160	4
	Xanthosia	*huegelii*			Shrub							20	0.2	20	0.2														

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Weed	Genus	Species	Infra-Rank	Infra- Species	NVIS Lifeform	Quadrat 7 (Destroyed) 25/09/2016 Height	Cover	22/11/2018 Height	Cover	12/11/2019 Height	Cover	Quadrat 8 - burnt in 2024 25/09/2016 Height	Cover	22/11/2018 Height	Cover	12/11/2019 Height	Cover	1/10/2020 Height	Cover	29/09/2022 Height	Cover	8/11/2024 Height	Cover	Quadrat 9 1/10/2020 Height	Cover	29/09/2022 Height	Cover	8/11/2024 Height	Cover
	Acacia	*applanata*			Shrub													40	0.1	30	0.1			30	0.1	30	0.1	40	<1
*	*Acacia*	*iteaphylla*			Shrub																								
	Acacia	*lasiocarpa*	var.	*lasiocarpa*	Shrub																								
	Acacia	*pulchella*	var.	*glaberrima*	Shrub															10	0.1			XX	XX	XX	XX		
	Acacia	*saligna*			Shrub																					XX	XX		
	Acacia	*sessilis*			Shrub													30	0.1	30	0.1								
	Adenanthos	*cygnorum*	subsp.	*cygnorum*	Shrub																								
*	*Aira*	*caryophyllea*			Tussock Grass																			10	0.1				
	Alexgeorgea	*nitens*			Rush	15	0.1					15	0.1					10	0.1	10	0.1			10	0.5	10	0.5	10	<1
	Allocasuarina	*fraseriana*			Tree	500	6	500	5	500	4	600	5	600	8	600	10	700	10	700	10			180	1	220	1	300	1
	Amphipogon	*turbinatus*			Tussock Grass	30	0.1					40	0.1																
	Anigozanthos	*humilis*	subsp.	*humilis*	Forb															5	0.1			XX	XX	XX	XX		
	Anigozanthos	*manglesii*	subsp.	*manglesii*	Forb													10	0.1	XX	XX			25	0.1	25	0.1		
*	*Arctotheca*	*calendula*			Forb																					10	0.1		
	Arnocrinum	*preissii*			Forb																			40	0.1				
	Austrostipa	*?flavescens (immat.)*			Tussock Grass																								
	Austrostipa	*compressa*			Tussock Grass													20	0.1	15	0.1								
*	*Avena*	*barbata*			Tussock Grass			20	<1	20	<1			40	<1	30	<1												
	Banksia	*attenuata*			Tree	600	3	600	4	600	5	800	25	800	20	800	25	800	25	800	25			350	1	350	2	400	1
	Banksia	*dallanneyi*	var.	*dallanneyi*	Shrub																			25	0.2	25	0.2	10	<1
	Banksia	*grandis*			Tree																								
	Banksia	*menziesii*			Tree	600	6	600	5	600	5							XX	XX	XX	XX			400	2	400	2	400	2
	Banksia	*sessilis*	var.	*cygnorum*	Shrub																								
	Beaufortia	*elegans*			Shrub																								
	Billardiera	*fraseri*			Vine									10	<1														
	Bossiaea	*eriocarpa*			Shrub	25	2	50	<1	50	1			10	<1	30	1	30	0.5	30	1			50	2.3	50	2	20	<1
	Brachyloma	*preissii*			Shrub	20	0.1					120	3	20	<1	30	<1	120	1	120	1			50	0.5	50	0.5	80	1
*	*Brassica*	*tournefortii*			Forb																								
*	*Briza*	*maxima*			Tussock Grass			20	<1	10	<1			10	<1	10	<1	15	0.2	20	0.1			20	0.5	20	0.3	20	<1
*	*Bromus*	*diandrus*			Tussock Grass																								
	Burchardia	*congesta*			Forb	40	0.1					40	0.1					40	0.1	40	0.1			35	0.1	35	0.1		
	Caesia	*micrantha*			Forb																								
	Caladenia	*arenicola*			Forb													40	0.1	40	0.1								
	Caladenia	*flava*	subsp.	*flava*	Forb	20	0.1					15	0.1					15	0.1	15	0.1			15	0.2	30	0.1		
	Calandrinia	*corrigioloides*			Forb																								
	Calandrinia	*granulifera*			Forb																								
	Calectasia	*narragara*			Shrub	20	0.1					30	1	10	<1	60	<1	30	0.2	30	0.1			30	0.1	30	0.1	30	<1
	Calothamnus	*sanguineus*			Shrub	30	0.1																						
	Calytrix	*flavescens*			Shrub															30	0.1†			30	0.2	30	1		
	Calytrix	*fraseri*			Shrub																								
	Carpobrotus	*sp. (sterile)(immat.)*			Forb																			3	0.1	1	0.1		
	Carpobrotus	*virescens*			Forb	10	0.1																						
	Centrolepis	*drummondiana*			Forb													5	0.2	5	0.1					4	0.1		
	Centrolepis	*inconspicua*			Sedge													1	0.1	1	0.1			1	0.1				
	Chaetospora	*curvifolius*			Sedge															20	0.1			20	0.2	20	0.5	20	<1
*	*Chamelaucium*	*uncinatum*			Shrub																								
	Comesperma	*calymega*			Shrub													40	0.1	30	0.1					30	0.1		
	Conospermum	*incurvum*			Shrub																								
	Conospermum	*stoechadis*			Shrub															10	0.1								
	Conostephium	*pendulum*			Shrub			??	3	50	4			60	<1	30	<1							30	0.5	50	0.1	10	<1
	Conostylis	*aculeata*	subsp.	*cygnorum*	Forb							30	0.1	20	<1	30	<1	30	0.1	30	0.1			25	0.3	35	0.3	40	<1
	Conostylis	*aurea*			Forb																							30	<1
	Conostylis	*juncea*			Forb													20	0.1	20	0.1			20	0.1	20	0.1		
	Conostylis	*setigera*	subsp.	*setigera*	Forb			5	<1	30	<1	10	0.1			10	<1	10	0.1	10	0.1			15	0.2	15	0.2	<10	<1
	Corynotheca	*micrantha*	var.	*micrantha*	Forb																			XX	XX				
	Crassula	*closiana*			Forb																								
	Crassula	*colorata*	var.	*colorata*	Forb													3	0.1	3	0.1			3	0.4	3	0.1		

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Weed	Genus	Species	Infra-Rank	Infra- Species	NVIS Lifeform	Quadrat 7 (Destroyed) 25/09/2016 Height	25/09/2016 Cover	22/11/2018 Height	22/11/2018 Cover	12/11/2019 Height	12/11/2019 Cover	Quadrat 8 - burnt in 2024 25/09/2016 Height	25/09/2016 Cover	22/11/2018 Height	22/11/2018 Cover	12/11/2019 Height	12/11/2019 Cover	1/10/2020 Height	1/10/2020 Cover	29/09/2022 Height	29/09/2022 Cover	8/11/2024 Height	8/11/2024 Cover	Quadrat 9 1/10/2020 Height	1/10/2020 Cover	29/09/2022 Height	29/09/2022 Cover	8/11/2024 Height	8/11/2024 Cover
*	*Cynodon*	*dactylon*			Grass other																								
*	*Daisy Weed (sterile)*				Forb																								
	Dampiera	*linearis*			Shrub	30	0.1			30	<1			30	<1	20	<1	20	0.1	10	0.1			30	0.2	30	0.2	20	<1
	Dasypogon	*bromeliifolius*			Forb							40	5	60	2	20	1	30	1	30	1			25	0.3	25	0.3	30	<1
	Daucus	*glochidiatus*			Forb	15	0.1					10	1																
	Daviesia	*divaricata*	subsp.	*divaricata*	Shrub																								
	Daviesia	*nudiflora*	subsp.	*nudiflora*	Shrub	50	0.1																	40	0.1	40	0.1	40	<1
	Daviesia	*physodes*			Shrub																								
	Daviesia	*triflora*			Shrub	40	0.1											60	0.5	60	0.2			60	2	60	2	50	<1
	Desmocladus	*asper*			Rush													10	0.2	10	0.2			15	2	15	2		
	Desmocladus	*flexuosus*			Rush			20	<1	50	<1							20	0.5	40	0.5			40	4	40	4	10	5
	Dianella	*revoluta*	var.	*divaricata*	Forb	40	0.1	XX	<1	50	<1																		
*	*Disa*	*bracteata*			Forb																			10	0.1	XX	XX		
	Diuris	*magnifica*			Forb																			50	0.3	50	0.1	40	<1
	Drakaea	*glyptodon*			Forb													1	0.1										
	Drosera	*erythrorhiza*			Forb	1	1					1	0.1					1	0.3	1	0.3			1	0.3	1	0.2		
	Drosera	*macrantha*			Forb							cl	0.1					60	0.1									climber	<1
	Drosera	*micrantha*			Forb																								
	Drosera	*pallida*			Forb																								
	Drosera	*sp. (sterile)(immat.)*			Forb																								
	Drosera	*thyanosepala*			Forb													20	0.1	XX	XX			40	0.1	40	0.1		
*	*Ehrharta*	*calycina*			Tussock Grass							40	0.1											70	0.3	70	0.2	110	<1
*	*Ehrharta*	*longiflora*			Tussock Grass																								
	Elythranthera	*brunonis*			Forb	60	0.1					20	0.1					20	0.1	20	0.1			20	0.1	30	0.1		
*	*Eragrostis*	*curvula*			Tussock Grass																								
	Eremaea	*pauciflora*	var.	*pauciflora*	Shrub	30	3	50	<1	80	3													XX	XX	XX	XX		
*	*Erigeron*	*bonariensis*			Forb																								
	Eriochilus	*dilatatus*	subsp.	*dilatatus*	Forb													5	0.1	5	0.1			10	0.1	10	0.1		
	Eucalyptus	*marginata*	subsp.	*marginata*	Tree													5	0.1					90	0.2	90	0.2	100	<1
*	*Eucalyptus*	*sp. (introduced)*			Tree																								
	Eucalyptus	*todtiana*			Tree																								
*	*Euphorbia*	*peplus*			Forb																								
*	*Euphorbia*	*terracina*			Forb																								
*	*Fumaria*	*capreolata*			Forb																								
*	*Fumaria*	*muralis*			Forb																								
*	*Galium*	*murale*			Forb																								
	Gastrolobium	*linearifolium*			Shrub															15	0.1							40	<1
*	*Geranium*	*dissectum*			Forb																								
*	*Gladiolus*	*caryophyllaceus*			Forb					60	<1	50	0.1	80	<1	60	<1	120	0.2	100	0.1			60	0.2	60	0.1	70	<1
	Gompholobium	*confertum*			Shrub					30	<1													60	0.3	60	0.3	30	<1
	Gompholobium	*tomentosum*			Shrub			40	<1					60	<1	10	<1	70	1	50	1								
	Grevillea	*crithmifolia*			Shrub																								
	Haemodorum	*laxum*			Forb	80	1											60	0.3	60	0.3			70	0.5	70	0.5	60	<1
	Haemodorum	*spicatum*			Forb			50	<1	30	<1													80	0.1	80	0.1		
	Hakea	*prostrata*			Shrub																								
	Hakea	*ruscifolia*			Shrub																								
	Hardenbergia	*comptoniana*			Vine													10	0.1	XX	XX								
*	*Heliophila*	*pusilla*			Forb																								
	Hemiandra	*linearis*			Shrub													15	0.1										
	Hibbertia	*hypericoides*	subsp.	*hypericoides*	Shrub	70	30	50	25	100	25	70	20	50	20	50	18	70	18	70	18			70	25			50	30
	Hibbertia	*racemosa*			Shrub	40	1													XX	XX								
	Hibbertia	*striata*			Shrub	40	1	20	<1	40	<1	30	0.1					30	0.2	30	0.1			20	1	20	0.5	20	<1
	Homalosciadium	*homalocarpum*			Forb													3	0.1	2	0.1								
	Hovea	*trisperma*			Shrub	30	0.1					20	0.1					10	0.1	20	0.1			30	0.2	30	0.1		
	Hyalosperma	*cotula*			Forb	10	1					10	1							10	0.5			10	1	10	1	10	<1
	Hybanthus	*calycinus*			Shrub	20	0.1													40	0.1			40	0.3	40	0.5	30	<1

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						Quadrat 7 (Destroyed)								Quadrat 8 - burnt in 2024										Quadrat 9					
						25/09/2016		22/11/2018		12/11/2019		25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024		1/10/2020		29/09/2022		8/11/2024	
Weed	**Genus**	**Species**	**Infra-Rank**	**Infra- Species**	**NVIS Lifeform**	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover
	Hypocalymma	*robustum*			Shrub	40	1	50	1	60	2	30	1	XX	<1	20	<1			50	1			50	0.5	60	0.5	50	<1
*	*Hypochaeris*	*glabra*			Forb	5	0.1											1	0.1	1	0.1			10	0.2	10	0.2		
	Hypolaena	*exsulca*			Rush			30	<1					30	<1	20	<1			40	0.1			50	0.5	50	0.1		
	Isolepis	*marginata*			Sedge													3	0.1	3	0.1			7	0.2	7	0.1		
	Isotropis	*cuneifolia*	subsp.	*cuneifolia*	Forb																								
	Jacksonia	*furcellata*			Shrub																								
	Jacksonia	*sericea P4*			Shrub																								
	Jacksonia	*sternbergiana*			Shrub	200	1																						
	Kennedia	*prostrata*			Vine									30	<1	20	<1	10	0.1	10	0.1								
	Kunzea	*glabrescens*			Shrub													XX	XX	10	0.1								
	Lagenophora	*huegelii*			Forb																								
*	*Lagurus*	*ovatus*			Tussock Grass																								
	Laxmannia	*squarrosa*			Forb																								
*	*Leontodon*	*rhagadioloides*			Forb																								
	Lepidobolus	*preissianus*	subsp.	*preissianus*	Rush																								
	Lepidosperma	*calcicola*			Sedge													35	0.1	35	0.1			25	0.1	30	0.1		
	Lepidosperma	*scabrum*			Sedge													50	0.1	50	0.1			35	0.1	35	0.1		
	Leporella	*fimbriata*			Forb															2	0.1			10	0.1	1	0.1		
	Leptorhynchos	*scaber*			Forb	30	0.1																						
*	*Leptospermum*	*laevigatum*			Shrub																								
	Levenhookia	*pusilla*			Forb															2	0.1								
	Levenhookia	*stipitata*			Forb																								
	Lobelia	*tenuior*			Forb																								
	Lomandra	*caespitosa*			Forb																								
	Lomandra	*hermaphrodita*			Forb													20	0.2	20	0.1			25	0.2	25	0.2	30	<1
	Lomandra	*micrantha*	subsp.	*micrantha*	Forb							30	0.1															30	<1
	Lomandra	*nigricans*			Forb																								
	Lomandra	*preissii*			Forb															40	0.1					XX	XX		
	Lomandra	*sericea*			Forb													30	0.1	40	0.3			30	0.3	30	0.1	40	<1
	Lomandra	*suaveolens*			Forb													15	0.2	15	0.2			20	0.1	20	0.1		
*	*Lupinus*	*cosentinii*			Forb																								
	Lyginia	*barbata*			Rush																							60	<1
	Lyginia	*imberbis*			Rush									50	<1			60	1	60	1			60	1.5	60	2		
	Lysiandra	*calycinus*			Shrub																								
*	*Lysimachia*	*arvensis*			Forb																					5	0.1		
	Macarthuria	*australis*			Forb																								
	Macrozamia	*fraseri*			Cycad															XX	XX			XX	XX	XX	XX		
	Melaleuca	*systena*			Shrub																								
	Mesomelaena	*pseudostygia*			Sedge	40	0.1	50	<1	40	<1	40	0.1	50	2	50	2	50	3	50	3			50	2	50	3	50	1
	Microlaena	*stipoides*	var.	*stipoides*	Tussock Grass													15	0.1	15	0.1								
	Microtis	*media*	subsp.	*densiflora*	Forb													40	0.1	40	0.1			30	0.1				
	Microtis	*media*	subsp	*media*	Forb																								
	Millotia	*tenuiflora*			Forb							2	0.1					5	0.1	10	0.1								
*	*Minuartia*	*mediterranea*			Forb																								
*	*Monoculus*	*monstrosus*			Forb																								
	Monotaxis	*grandiflora*	var.	*grandiflora*	Shrub																							40	<1
*	*Moraea*	*flaccida*			Forb																								
	Morelotia	*octandra*			Sedge	30	0.1					20	0.1					30	1	20	0.1			35	1	35	1	40	<1
	Opercularia	*vaginata*			Forb							20	0.1	XX	<1			30	1	20	1								
*	*Oxalis*	*pes-caprae*			Forb																								
	Patersonia	*occidentalis*	var.	*occidentalis*	Forb							20	0.1	60	<1	20	<1	50	0.3	50	0.3								
*	*Pelargonium*	*capitatum*			Shrub																								
*	*?Pelargonium*	*capitatum (immat.)*			Shrub													3	0.1	3	0.1					3	0.1		
	Petrophile	*linearis*			Shrub	30	0.1	50	<1	30	<1	30	0.1	20	<1	30	<1	40	0.2	40	0.5			50	1	50	1	50	<1
	Petrophile	*macrostachya*			Shrub	40	0.1	XX	<1	40	<1													XX	XX	XX	XX		
*	*Petrorhagia*	*dubia*			Forb																								
	Philotheca	*spicata*			Shrub	15	0.1											30	0.1	50	0.1			35	0.2	35	0.2		

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						Quadrat 7 (Destroyed)						Quadrat 8 - burnt in 2024												Quadrat 9					
						25/09/2016		22/11/2018		12/11/2019		25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024		1/10/2020		29/09/2022		8/11/2024	
Weed	**Genus**	**Species**	**Infra-Rank**	**Infra- Species**	**NVIS Lifeform**	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover
	Phlebocarya	*ciliata*			Forb																					40	0.5	40	<1
	Phyllangium	*paradoxum*			Forb													5	0.5	5	0.1			5	0.3	5	0.1		
	Pimelea	*ferruginea*			Shrub																								
	Pimelea	*leucantha*			Shrub																								
	Pimelea	*sulphurea*			Shrub							30	0.1	30	<1	20	<1	20	0.1	50	0.1			30	0.1	30	0.1	30	<1
	Podotheca	*angustifolia*			Forb																								
	Podotheca	*chrysantha*			Forb													20	0.1					20	0.1	30	0.1		
	Podotheca	*gnaphalioides*			Forb	30	0.1					20	1							10	0.1								
*	*Polycarpon*	*tetraphyllum*			Forb																								
	Poranthera	*microphylla*			Forb																			5	0.1				
	Poranthera	*moorokatta P2*			Forb													1	0.1	1	0.1								
	Prasophyllum	*parvifolium*			Forb																								
	Pterostylis	*recurva*			Forb																								
	Pterostylis	*vittata*			Forb																			10	0.1	20	0.1		
	Pterostylis	*vittata/sanguinea*			Forb													1	0.1	5	0.1								
	Ptilotus	*manglesii*			Forb			XX	<1	20	<1																		
	Pyrorchis	*nigricans*			Forb															XX	XX								
	Quinetia	*urvillei*			Forb																								
	Rhodanthe	*citrina*			Forb																								
*	*Romulea*	*rosea*			Forb																								
*	*Rostraria*	*cristata*			Tussock Grass																			10	0.1	10	0.1		
	Rytidosperma	*occidentale*			Tussock Grass																			35	0.2	35	0.1	70	<1
	Rytidosperma	*setaceum*			Tussock Grass															10	0.1								
	Rytidosperma	*sp.*			Tussock Grass																								
	Scaevola	*canescens*			Shrub																								
	Scaevola	*repens*	var.	*angustifolia*	Shrub					20	<1	10	2			10	<1	10	2	10	2								
	Scaevola	*thesioides*	subsp	*thesioides*	Shrub																								
*	*Senecio*	*vulgaris*			Forb																								
*	*Silene*	*gallica*	var.	*gallica*	Forb																					10	0.1		
*	*Solanum*	*nigrum*			Forb																								
*	*Sonchus*	*oleraceus*			Forb															5	0.1							10	<1
	Sowerbaea	*laxiflora*			Forb													50	0.1	50	0.1			30	0.2	30	0.2	50	<1
	Stirlingia	*latifolia*			Shrub	100	25	100	20	100	22	150	10	150	12	50	12	90	8	90	8			120	2	120	2	60	<1
	Stylidium	*androsaceum*			Forb													10	0.5	10	0.5			15	0.3	15	0.2		
	Stylidium	*carnosum*			Forb							10	0.1							XX	XX					1	0.1		
	Stylidium	*cygnorum*			Forb																			5	0.1	5	0.1		
	Stylidium	*neurophyllum*			Forb																								
	Stylidium	*piliferum*			Forb	30	0.1											30	0.1	30	0.1			25	0.2	25	0.1	<10	<1
	Stylidium	*schoenoides*			Forb																								
	Styphelia	*erubescens*			Shrub																					50	0.1		
	Thelymitra	*campanulata*			Forb																								
	Thelymitra	*vulgaris*			Forb																					XX	XX		
	Thysanotus	*arbuscula*			Forb											30	<1							60	0.1	60	0.1		
	Thysanotus	*manglesianus*			Forb																								
	Thysanotus	*multiflorus*			Forb																								
	Thysanotus	*sparteus*			Forb													70	0.2	70	0.2					120	0.1		
	Thysanotus	*thyrsoideus*			Forb													20	0.5	30	0.1			50	0.3	50	0.1	40	<1
	Trachymene	*pilosa*			Forb													5	0.5	10	0.2			10	2	10	0.3		
	Tricoryne	*elatior*			Forb																								
	Tricoryne	*tenella*			Forb																			XX	XX				
*	*Trifolium*	*arvense*	var.	*arvense*	Forb																								
*	*Trifolium*	*campestre*	var.	*campestre*	Forb																								
	Triglochin	*isingiana*			Forb																								
*	*Urospermum*	*picroides*			Forb																								
*	*Ursinia*	*anthemoides*	subsp.	*anthemoides*	Forb	40	0.1			10	<1	30	0.1					10	0.1	20	0.1			20	1	20	1	20	1
	Verticordia	*nitens*			Shrub																								
*	*Vicia*	*sativa*			Forb																								

XX = outside quadrat but within 10m of quadrat boundary;
† = species overhanging quadrat; cl = Climber

						Quadrat 7 (Destroyed)								Quadrat 8 - burnt in 2024								Quadrat 9					
						25/09/2016		22/11/2018		12/11/2019		25/09/2016		22/11/2018		12/11/2019		1/10/2020		29/09/2022		8/11/2024		1/10/2020		29/09/2022		8/11/2024	
Weed	**Genus**	**Species**	**Infra-Rank**	**Infra- Species**	**NVIS Lifeform**	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover	Height	Cover
*	*Vulpia*	*myuros*	forma	*megalura*	Tussock Grass															15	0.1			20	0.2	20	0.2		
*	*Wahlenbergia*	*capensis*			Forb																			20	0.1	10	0.1		
	Wahlenbergia	*preissii*			Forb													20	0.1	20	0.1			15	0.2	2	0.1		
	Waitzia	*suaveolens*	var.	*suaveolens*	Forb					20	<1			10	<1	20	<1	10	0.1	15	0.5								
	Xanthorrhoea	*brunonis*	subsp.	*brunonis*	Grasstree																			90	0.2	90	0.2	90	1
	Xanthorrhoea	*preissii*			Grasstree	180	8	200	9	200	8	170	20	180	18	180	25	180	5	180	5			160	7	180	7	140	4
	Xanthosia	*huegelii*			Shrub	10	0.1											15	0.2	15	0.2					25	0.1		