SOUTH32

Worsley Alumina

WORSLEY BAUXITE ALUMINA PROJECT – MINE EXPANSION

COMPONENT 1 – ANNUAL ENVIRONMENTAL REPORT PURSUANT TO CLAUSE 5A(1)-(3) AND 12C(3) OF THE *ALUMINA REFINERY (WORSLEY) AGREEMENT ACT 1973*

MS1237 COMPLIANCE ASSESSMENT REPORT

EPBC 2019/8437 ANNUAL COMPLIANCE REPORT

REPORTING TIMEFRAME: 1 JULY 2025 – 30 JUNE 2026

REPORT DATE: 30 SEPTEMBER 2026
UPDATE: 31 OCT 2026

Proponent Declaration / Endorsement 4
1 Introduction 5
1.1 Project Details 5
1.2 Environmental Approvals 6
1.3 Scope of Compliance Assessment Report (CAR) 9
2 Summary of Proposal and Implementation Status 10
2.1 Primary Assessment Area (PAA) 10
2.2 Extended Mining Areas 10
2.3 Refinery 11
2.4 Overland Bauxite Conveyor 11
3 Statement of Compliance 12
3.1 Alumina Refinery (Worsley) Agreement Act 1973 12
3.2 Ministerial Statement 1237 12
3.3 EPBC 2019/8437 13
4 Details of Declared Compliance Status 14
4.1 Alumina Refinery (Worsley) Agreement Act 1973 14
4.2 Modifications to MS1237 14
4.3 Key Proposal Characteristics 14
4.4 Greenhouse Gas Emissions 20
4.5 Extended Mining Areas (EMAs) 20
4.6 Flora and Vegetation 26
4.7 Terrestrial Fauna 38
4.8 Inland Waters 52
4.9 Terrestrial Environmental Quality 91
4.10 Social Surrounds (Aboriginal Heritage) – PAA 97
4.11 Rehabilitation 98
4.12 Environmental Offsets 104
4.13 Closure and Decommissioning 110
4.14 Compliance Monitoring Report 110
4.15 Reporting, Audits and Other Conditions 110
5 Details of Non-compliance or Potential Non-compliance 112
5.1 Non-compliances 112
6 Compliance Assessment Audit Tables 114
6.1 MS1237 Audit Table 114
6.2 EPBC 2019/8437 Audit Table 137
6.3 EPBC 2004/1566 Audit Table 145
7 References 146
8 Definitions, Terms & Abbreviations 147
9 Appendices 150
9.1 Appendix 1: Compliance Monitoring Report 150

9.2 Appendix 2: GIS Information 150
9.3 Appendix 3: Environmental Management Plans 150
9.4 Appendix 4: Flora and Fauna Reports 150
9.5 Appendix 5: Black Cockatoo Hollows – Methodology and Findings 151
9.6 Appendix 6: Water Monitoring Results and Reports 152
9.7 Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information 152
9.8 Appendix 8: Mine Closure Plan Documents 152
9.9 Appendix 9: Heritage Documents 152
9.10 Appendix 10: CEMP – Nullaga Project Information 153
9.11 Appendix 11: Schedule of Plans in Effect - EPBC 2019/8437 Condition 76(b) 153
9.12 Appendix 12: Conservation Covenants 153

TABLE OF FIGURES

Figure 1-1 Project Location 8
Figure 4-1 Areas of Disturbance (FY2026) 33
Figure 4-2 Areas of Rehabilitation (FY2026) 34
Figure 4-3 Protected Areas Added During the Reporting Period 37
Figure 4-4 a-c Clearing Activity Proximity to Protected Areas and SRE Locations 45
Figure 4-5 Verified Rank 1-3 PBTs within the PAA and Area Surveyed in Accordance with the CSFMP 50
Figure 4-6 Nullaga Water Monitoring Locations 93
Figure 4-7 Images Taken from Separate Felixer Locations on Gibbs Property. 108
Figure 4-8 Artificial Black Cockatoo Hollows Installed on Gibbs Property 109

LIST OF TABLES

Table 2-1 Implementation Status of Key Activities 10
Table 4-1 State Agreement: Worsley Alumina Assessment of Compliance Status 14
Table 4-2 MS1237 Proposal Limitations and Extent of Proposal (Condition A1-1 of MS1237) 15
Table 4-3 Summary of Fauna Surveys to Date - EMAs 21
Table 4-4 Summary of Biodiversity-Related Investigations Reports 24
Table 4-5 Performance Against FVMP Outcome Based Provisions 27
Table 4-6 Performance Against FVMP Objective Based Provisions 29
Table 4-7 Record of Disturbance – PAA 32
Table 4-8 Record of Native Vegetation Clearing – Development Envelopes 32
Table 4-9 Record of Vegetation Disturbance Priority Flora and Vegetation Complex (PAA) 32
Table 4-10 Summary of Pre-clearance Surveys 35
Table 4-11 Performance Against CSFMP Outcome Based Provisions 39
Table 4-12 Performance Against CSFMP Objective Based Provisions 40
Table 4-13 Record of Disturbance to Fauna Habitat (1 July 2025 – 30 June 2026) 43
Table 4-14 Record of Reported Fauna Sightings (1 July 2025 – 30 June 2026) 44
Table 4-15 Black Cockatoo Potential Breeding Trees – Trees Removed & Artificial Hollows Installed 49
Table 4-16 Performance Against WMP Outcome Based Provisions 53
Table 4-17 Performance Against WMP Objective Based Provisions 55
Table 4-18 Total Water Abstraction Plus Other Purchased Water (ML) FY2026 - BBM 57
Table 4-19 Total Water Abstraction Plus Other Purchased Water (ML) FY2026 - Construction 58
Table 4-20 Monthly Production Bore Abstraction Compared to Recommended Yield 59
Table 4-21 BBM Trigger and Threshold Levels 61
Table 4-22 Logger Faults and Incidents 63
Table 4-23 Regional Field Monitoring Results 63
Table 4-24 GDE Field Monitoring Results 65
Table 4-25 Regional and GDE Groundwater Laboratory Monitoring Results 67
Table 4-26 Production Bore Laboratory Monitoring Results 71

Table 4-27 Surface Water Field Monitoring Results Livestock Dams 73
Table 4-28 Hotham River Trigger Values 74
Table 4-29 Surface Water Monitoring Results – Regional Surface Water Hotham River 74
Table 4-30 Williams River Trigger Values 76
Table 4-31 Surface Water Monitoring Results – Regional Surface Water Williams River 77
Table 4-32 Marradong Brook Trigger Values 79
Table 4-33 Surface Water Monitoring Results – Regional Surface Water Marradong Brook 79
Table 4-34 Recycled Water Monitoring Results 81
Table 4-35 Refinery Trigger and Threshold Levels (Regional Surface Water) 83
Table 4-36 Refinery Trigger and Threshold Levels (Groundwater) 83
Table 4-37 Monthly Surface Water Monitoring Results ARGs 84
Table 4-38 Carters Freshwater Mussel Interim Trigger & Threshold Levels 88
Table 4-39 Carters Freshwater Mussel Monitoring Results 88
Table 4-40 Performance Against CEMP Outcome Based Provisions 94
Table 4-41 Performance Against CEMP Objective Based Provisions 95
Table 4-42 Refinery Water Related Actions and Status 96
Table 4-43 Native Vegetation Cleared for Mining and Rehabilitation of Areas Mined 99
Table 4-44 Performance Against Annual Rehabilitation Plan Outcome Based Provisions 101
Table 4-45 Performance Against Annual Rehabilitation Plan Objective Based Provisions 101
Table 4-46 Financial Year 2026 Mine Rehabilitation Fund Report (ha) 103
Table 4-47 Performance Against LOEMP Outcome Based Provisions 106
Table 4-48 Performance Against LOEMP Objective Based Provisions 107
Table 4-49 Feral Animal Management 108
Table 5-1 Summary of Reported Potential Non-compliances 112
Table 6-1 MS1237 Audit Compliance Table 114
Table 6-2 EPBC 2019/8437 Compliance Audit Table 137
Table 6-3 EPBC 2004/1566 Compliance Audit Table 145

PROPONENT DECLARATION / ENDORSEMENT

I, Pine Pienaar, Vice President Operations, declare that I am authorised on behalf of South32 Worsley Alumina Pty Ltd *(being the person responsible for the proposal)* to submit this Compliance Assessment Report for Ministerial Statement 1237 and this Annual Compliance Report for EPBC 2019/8437, and the information contained herein is true and not misleading.

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 I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signature:.....

Full name	Pine Pienaar
Position	Vice President Operations
Organisation	South32 Worsley Alumina Pty Ltd (ABN 58 008 905 155)
Date	23 September 2026

.

1 INTRODUCTION

South32 Worsley Alumina Pty Ltd (ABN 58 008 905 155) (Worsley Alumina) has continued to develop and implement environmental management programs in accordance with commitments and obligations to the State of Western Australia and Commonwealth of Australia, primarily those pertaining to the:

- *Alumina Refinery (Worsley) Agreement Act 1973 (WA)*
- Worsley Environmental Review Document (2022)
- Ministerial Statement 1237 (MS1237) issued 20 December 2024
- Commonwealth Approval Instrument (EPBC 2019/8437) issued 11 February 2025 (varied 26 June 2026)
- Commonwealth Approval Instrument (EPBC 2004/1566) issued 6 June 2006;
- *Environmental Protection Act 1986 (WA)* (EP Act) and associated Licences; and
- *Environment Protection and Biodiversity Conservation Act 1999 (Cth)* (EPBC Act).

This report outlines the progressive implementation of environmental management and research programs and provides a detailed performance as well as compliance assessment regarding statutory environmental requirements.

- This Compliance Assessment Report/Annual Compliance Report (CAR) has been prepared in accordance with condition D2-1 of MS1237 and condition 75 of EPBC 2019/8437 and also addresses the requirements of clause 5A(3) of the *Alumina Refinery (Worsley) Agreement Act 1973 (WA)*.

Report Update

Following submission of the CAR on 30 September 2026, two minor errors were identified in the water consumption data reported for the Boddington Bauxite Mine in Table 4-18 and Table 4-20. Water consumption from bore M01/18 for April to June 2026 was inadvertently omitted, resulting in the total consumption reported for the Marradong Borefield being understated. In addition, consumption from one bore associated with the Fawcett Borefield was incorrectly attributed to the South East Borefield in Table 4-18. Both errors have been corrected in this revised version of the report, and the affected totals have been updated accordingly.

1.1 PROJECT DETAILS

Worsley Alumina operates and manages the Worsley Bauxite/Alumina Project (Worsley Project) on behalf of the Worsley Joint Venture – Bauxite/Alumina Operations (**Worsley JV**). The Worsley Project involves mining and crushing of ore at the Boddington Bauxite Mine (**BBM**), the transportation of crushed ore from the BBM to the Worsley Refinery by the Overland Bauxite Conveyor (**OBC**), the processing and refining of ore to produce alumina at the Refinery, and the transportation of alumina by rail to the Bunbury port for exportation to aluminium smelters around the world.

1.1.1 Ownership

The Worsley JV is managed by South32 Worsley Alumina Pty Ltd and as at the date of this report includes the following joint venture participants (Worsley JVPs) in the following participating interests:

- South32 Aluminium (RAA) Pty Ltd (ACN 095 831 119) - 56%;
- South32 Aluminium (Worsley) Pty Ltd (ACN 088 336 921) - 30%;
- Japan Alumina Associates (Australia) Pty Ltd (ACN 008 907 524) - 10%; and
- Sojitz Alumina Pty Ltd (ACN 009 309 344) - 4%.

1.1.2 Operations

Worsley Alumina commenced alumina production in 1984 and operates the Worsley Project pursuant to the *Alumina Refinery (Worsley) Agreement Act 1973 (WA)* (**State Agreement**).

The Worsley Project is located on the Darling Plateau, which forms the south-western margin of the Great Plateau of Western Australia (Figure 1-1).

The BBM is located approximately 3 kilometres (km) from the Boddington town site in the Hotham River catchment. Mining is undertaken on Crown Land and private land on the eastern edge of the Darling Range in the northern jarrah forest (NJF) and the surrounding Saddleback, Quindanning and Marradong Timber Reserves.

Crushed bauxite is transported 51 km by a two-flight cable belt conveyor system from the BBM to the Refinery at Worsley, 20 km north-west of Collie. The Worsley Refinery lies within the catchment of the Augustus River. Raw materials and products are shipped through the Port of Bunbury, 45 km to the south-west.

1.2 ENVIRONMENTAL APPROVALS

The Worsley Project is fully operational under the State Agreement with tenure primarily on mining lease M258SA and additional surrounding mining leases granted pursuant to the *Mining Act 1978 (WA)* as well as sublease arrangements with Alcoa of Australia Limited (Alcoa) on three sections of Mineral Lease ML1SA.

The Worsley Project has been subject to several regulatory approvals since commencement. The State Agreement provided the initial basis for the Worsley Project to proceed following assessment and approval of an Environmental Review and Management Programme which was granted in 1980. The project has since undergone expansions with three additional assessments. The first referral in 1995 included an expansion in refinery capacity from 2.0 Mtpa to 3.5 Mtpa and associated bauxite mining activities at BBM and was subject to a Consultative Environmental Review resulting in Ministerial Statement 423 (MS423) issued on 2 July 1996. This proposal was subject to the EPBC Act exemption as it was approved prior to the EPBC Act coming into force.

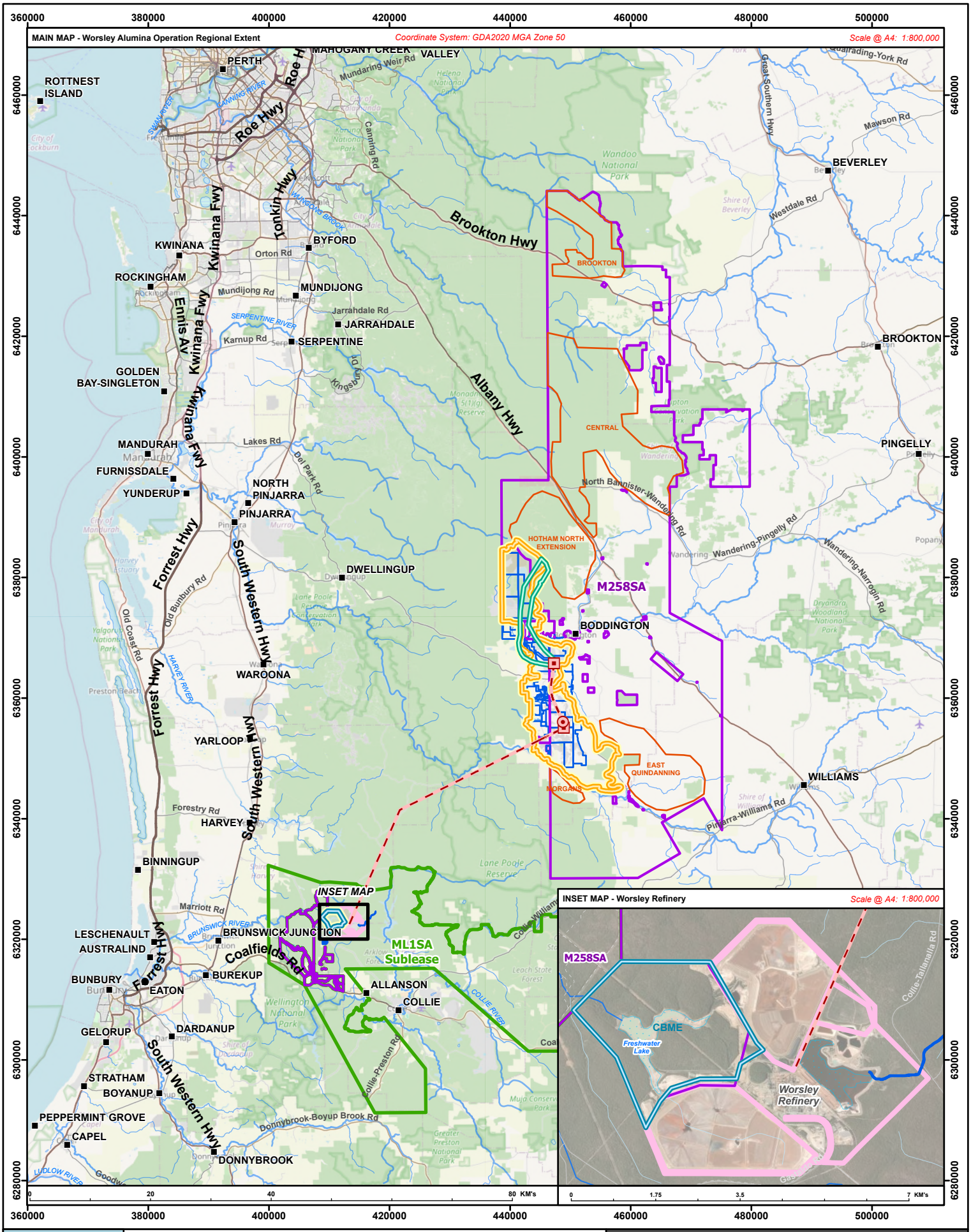
Referred in 2004, a second proposal which included a further increase in refinery production capacity to 4.4 Mtpa, was subject to an Environmental Review and Management Programme, assessed under a Bilateral Agreement. This assessment process resulted in the issue of MS719 on 13 April 2006 replacing and extending MS423 and so continued to provide approval for the proposal originally subject to MS423, as well as provide new approval for the proposal described in the 2005 Environmental Review and Management Programme. In addition, EPBC Act approval 2004/1566 was granted for this proposal on 6 June 2007 for the Extended Mining Areas (Figure 1-1) with mining operations within the PBA remaining subject to the EPBC Act exemption.

Worsley Alumina was awarded State and Commonwealth environmental approval on a third proposal to extend Worsley Project mining into additional adjacent bauxitic areas to the west and north of previously approved areas, while utilising the existing mining and conveying infrastructure at Marradong and Saddleback (Worsley Mine Expansion – Revised Proposal). The expansion of the BBM increased the MS719 approved mining envelope from 22,102 ha to 27,629 ha, an area which encompasses and expands the pre-existing approval area and is referred to as the Worsley Mining Development Envelope (WMDE) (Figure 1-1). Other scopes of the proposal (collectively referred to as the Primary Assessment Area or PAA) included the Bauxite Transport Corridor (BTC) - 4,146 ha of which 3,332 overlaps the WMDE, and the Contingency Bauxite Mining Envelope (CBME) at Worsley Alumina's Refinery.

The proposal as outlined in the Environmental Review Document was made available for public comment on 20 June 2022 to 29 August 2022, with Worsley Alumina's final response to submissions submitted on 12 March 2024 (EPA Assessment Reference: 2216, EPBC Reference: 2019/8437). EPA Report 1768, issued on 8 July 2024 recommended approval of the Worsley Mine Expansion – Revised Proposal with conditions. On 20 December 2024, Ministerial Statement 1237 (MS1237) was issued for the Worsley Mine Expansion – Revised Proposal, and on 11 February 2025, EPBC 2019/8437 was granted. Minor modifications to EPBC approval

2019/8437 were authorised on 26 June 2026. The varied conditions have been included alongside the original wording prior to 26 June 2026, in Table 6-2 to ensure assessment to both sets of conditions can be reviewed in this CAR.

Continuation of existing mining activities (previously subject to MS719 and EPBC Act exemptions) and new proposed mining activities within the PAA are now subject to MS1237. The EPBC Act approval (EPBC 2004/1566) granted on 6 June 2007 for the Extended Mining Areas remains in effect.





LEGEND

Town | National Highway | State Highway | Freeway | Main Road | Major River | Minor River | Lake

NORTH

Envelopes:
- BTC
- CBME
- WMDE
- PAA

Existing Infrastructure
- Primary Crusher
- Secondary Crusher
- Overland Conveyor

Regional Extents
- Extended Mining Areas (EMA)

Agreements
- Refinery Lease Area (RLA)
- ML1SA Sublease

Tenements
- Mining Act Tenure
- M258SA

SOUTH32

Worsley Alumina Pty Ltd

Worsley Project Location

FIGURE 1-1

MS1237 Compliance Assessment Report FY26
EPBC 2019/8437 Annual Compliance Report FY26

Date: 24 September 2026 Author: dlimm1

Plan: CAR_FY26_Fig1-1_ProjectLocation_A4P.mxd

1.3 SCOPE OF COMPLIANCE ASSESSMENT REPORT (CAR)

This report on environmental performance of the Worsley Bauxite/Alumina Project is submitted in accordance with the following requirements.

1.3.1 Alumina Refinery (Worsley) Agreement Act 1973 (WA) (State Agreement)

This CAR will be provided to the Minister for State Development to fulfil necessary reporting requirements under the State Agreement including:

- Clause 5A (3) of the State Agreement, which in summary requires the Worsley JVPs to provide on an annual basis an interim report concerning investigations and research conducted under clause 5A(2); and
- Clause 12C (3) of the State Agreement which in summary requires the Worsley JVPs to report acoustic monitoring results for the overland bauxite conveyor.

Clause 5A(1) of the State Agreement required Worsley Alumina to submit to the Minister for approval, no later than 31 October 1978, a detailed environmental review and management programme outlining measures proposed to protect and manage the environment, including rehabilitation and/or restoration of the mined areas and areas used for disposal of red mud, the prevention of the discharge of tailings, slimes, pollutants or overburden and the minimisation of salt release into the surrounding country, water courses, lakes or underground water supplies and the prevention of soil erosion. The required environmental review and management programme was provided to the Minister in 1978 and subsequent environmental approval submissions, including updated environmental reviews and management programs (in the form of Environmental Impact Assessments) have been made and approved by the Minister for Environment to address expansions of the Worsley Project. The most recent of these was the Worsley Mine Expansion (Revised Proposal) Environmental Review Document (South32 Worsley Alumina, 2022).

1.3.2 Environmental Protection Act 1986 (WA) Ministerial Statement 1237

This CAR has been prepared in accordance with EPA Post Assessment Guidelines No. 3: *Post Assessment Guideline for Preparing a Compliance Assessment Report* (OEPA, 2012) and covers the extent of the proposal as described in MS1237 Part A for the period 1 July 2025 to 30 June 2026.

This CAR has been prepared and published consistent with Worsley Alumina's Compliance Assessment Plan (CAP) required by MS1237 condition D2-5 which the CEO has confirmed in writing satisfies the relevant requirements of MS1237. The Audit Compliance Table for MS1237 is provided in Section 6.1.

1.3.3 Environment Protection and Biodiversity Conservation Act 1999 (Cth)

This CAR has also been prepared in accordance with the Commonwealth's *Annual Compliance Report Guidelines* (DCCEEW, 2023) to satisfy the requirements of the EPBC Act approvals:

- EPBC 2019/8437 (PAA); and
- EPBC 2004/1566 (EMAs).

The Audit Compliance Tables for EPBC 2019/8437 and EPBC 2004/1566 are provided in Sections 6.2 and 6.3, respectively.

Under EPBC approval 2019/8437, the Annual Compliance Report period is defined as each successive 12-month period commencing on the date of the approval decision (11 February) and continuing until the approval expires, unless otherwise specified in writing. During the reporting period, Worsley Alumina requested a variation to certain conditions of EPBC approval 2019/8437, primarily to align the Annual Compliance Report period with the State's annual compliance reporting requirements. This variation enables the submission of a single annual compliance report to both regulators by 30 September each year, covering the preceding financial year ending 30 June.

The variation to EPBC approval 2019/8437 was authorised on 26 June 2026. The varied conditions are included in the EPBC 2019/8437 Compliance Audit Table in Section 6.2, alongside the conditions in effect prior to the variation. Compliance for this reporting period has been assessed against the applicable conditions, including the varied conditions where relevant.

2 SUMMARY OF PROPOSAL AND IMPLEMENTATION STATUS

As noted above in section 1.2, Worsley Alumina has been producing alumina in the current location since 1984. MS1237 and EPBC 2019/8437 were approved to support the Worsley Mine Expansion - Revised Proposal (Revised Proposal), which included continuation of current operations and included extension and definition of development envelopes to support further mining activities and infrastructure. Implementation of the Revised Proposal commenced once both State and Commonwealth approvals were received, and all further relevant approvals were provided by the State to allow commencement of ground disturbing activities (Condition C1-1). Table 2-1 provides a summary of the implementation status of several of the key activities. While some mine activities include construction activities, the Worsley Project has been operational for more than 40 years. As such, the implementation status of the project is considered “operational”.

In accordance with the requirements of EPBC 2019/8437 condition 67, notification of commencement of the action was submitted to DCCEEW in writing via email on 12 February 2025.

Table 2-1 Implementation Status of Key Activities

KEY PROPOSAL ACTIVITIES	IMPLEMENTATION STATUS
Alumina Production	Continued during the reporting period
Bauxite Mining	Continued during the reporting period • Mining activities continued in the WMDE • Mining in the CBME has not commenced
Bauxite Transport (OBC & OLC)	Continued during the reporting period using existing infrastructure
Bauxite Transport Corridor (BTC)	Continuation of construction activities occurred during the reporting period including: • Construction of bridge/culvert crossings
Bauxite Transport to service Extended Mining Areas (EMAs)	Not yet implemented
Clearing of Native Vegetation - Mining	Continued during the reporting period • A total of 328.3 ha of native vegetation was cleared during the reporting period
Clearing of Native Vegetation – RLA, CBME, Wellington Dam pipeline	No additional clearing within the RLA, CBME or for the Wellington Dam Pipeline occurred during the reporting period.
Construction & Support Facilities	Continuation of construction activities occurred during the reporting period including: • Construction of bridge/culvert crossings in BTC

2.1 PRIMARY ASSESSMENT AREA (PAA)

As described in Section 1.2, the PAA includes the development envelopes WMDE and BTC at the BBM, and the CBME at Worsley Alumina’s Refinery.

As noted above in Table 2-1, mining activities within the WMDE continued during the reporting period. Figure 4-1 outlines the areas of disturbance from 1 July 2025 to 30 June 2026. Construction of bridges / culvert crossings across the Hotham River and tributary (34 Mile Brook) commenced during the reporting period. No ground disturbing activities were undertaken in the CBME during the reporting period.

2.2 EXTENDED MINING AREAS

Ground disturbing activities, as defined by MS1237, have not commenced within the Extended Mining Areas (EMAs). Accordingly, Part B conditions B5 to B11 are not applicable for the reporting period. Worsley Alumina

provided the Department of Water and Environmental Regulation (DWER) and the Department of Climate Change, Energy, the Environment and Water (DCCEEW) with a draft Scope of Biodiversity-related Investigations (BIS) in accordance with condition 8 of MS719 in 2007. The BIS was endorsed by DCCEEW in November 2007 and DWER in April 2008. Worsley Alumina subsequently amended the BIS and provided it to the Environmental Management Liaison Group (EMLG) and DCCEEW for comment in 2023. The amended BIS was revised to address comments received from the EMLG and was endorsed by DCCEEW on 10 July 2024. The revised amended BIS was submitted to DWER for endorsement in accordance with condition B4-2 of MS1237 on 4 June 2025. DWER endorsement remained pending at the end of the reporting period.

Worsley Alumina has commenced preliminary biodiversity-related investigations in line with the amended BIS. The results of these investigations will be used to prepare the Biodiversity-related Investigations Report required by MS1237 condition B4-6. A summary of work completed to date is provided in section 4.5.1.

2.3 REFINERY

Refinery operations continued during the reporting period. Alumina production for the financial year was 4.32Mt.

2.4 OVERLAND BAUXITE CONVEYOR

Operation of the OBC transporting crushed ore from the BBM to the Worsley Refinery continued during the reporting period.

2.4.1 Noise Management

Management of noise emissions from the OBC continued to be a high priority at Worsley Alumina. Activities during the reporting period included:

- Continued replacement of split rim type pulleys with mono-tyre pulleys within noise-sensitive areas;
- Continuation of the insert replacement program along the conveyor. This consists of placing inserts between two steel structures to reduce vibration and ultimately reduce noise emissions; and
- An ongoing program to reduce noise emissions from the conveyor bridges. This involves routine inspection and maintenance including replacing or tightening all nuts and bolts, replacing the running gear on the bridges and ensuring the conveyor cowling is secure.

2.4.2 Noise Monitoring (State Agreement)

This section relates specifically to the noise monitoring activities of the OBC in accordance with the State Agreement. Noise monitoring of the conveyor is undertaken in accordance with clause 12C. Clause 12C requires operation of the conveyor to ensure noise received at given monitoring points (R, S, T & U on Plan Z of the State Agreement) as a result of operation of the OBC for more than 90% of any 15 minute period of operation to be less than 60 dB LA Slow (or such other level and/or measurement points and/or measurement method as may be agreed between the Minister and the Worsley JVPs from time to time).

During the reporting period there were no alerts from noise monitors R, S, T and U.

Two real time noise monitoring terminals (NMTs) monitor compliance to the State Agreement for the Marradong conveyor (OLC). These monitors are located 900 m from the conveyor and produce an alert to Pit Control when LAS10 over a 15-minute period reaches 60 dB(A). During the reporting period all alerts were investigated. No alerts were found to have been triggered by OLC operations.

Additional NMTs near monitoring points T and U have been in operation since 2016. These monitors produce an alert to Pit Control when the LAS90 over a 15-minute period is above 60 dB(A). No such alerts from these two NMTs were found to be attributed to OBC operations during the reporting period.

3 STATEMENT OF COMPLIANCE

3.1 ALUMINA REFINERY (WORSLEY) AGREEMENT ACT 1973

In 2026 Worsley proposed to the Minister for State Development, that the CAR and Annual Rehabilitation Plan (ARP) be considered suitable to meet the requirements of clause 5A(1) – (3) and 12C(3) of the State Agreement. Confirmation from the Minister was received (31 August 2026) endorsing Worsley's proposal provided that:

- Future CAR and ARP submissions are titled as "Component 1" and "Component 2" – "Annual Environmental Report Pursuant to clause 5A(1) – (3) and 12C(3) of the *Alumina Refinery (Worsley) Agreement Act 1973*"; and
- Future submission letters include Worsley's table aligning its AER requirements to the CAR and ARP content.

A compliance table for the relevant State Agreement obligations is provided in Section 4.1 (Table 4-1). This report specifically addresses the requirements of Clause 5A(3). Table 4-1 summarises Worsley Alumina's assessment of compliance against the remaining relevant State Agreement clauses for the reporting period.

3.2 MINISTERIAL STATEMENT 1237

3.2.1 Proposal and Proponent Details

Proposal Title	Worsley Mine Expansion - Revised Proposal
Statement Number	1237
Proponent Name	South32 Worsley Alumina Pty Ltd
Proponent's Australian Company Number *(where relevant)*	58 008 905 155

3.2.2 Statement of Compliance Details

Reporting Period	1/07/25 to 30/06/26

Implementation phase(s) during reporting period (please tick ✓ relevant phase(s))							
Pre-construction		Construction		Operation	✓	Decommissioning	

Were all implementation conditions and/or procedures of the Statement complied with within the reporting period? (please tick ✓ the appropriate box)			
No (please refer to Section 5)	✓	Yes	

Refer to Section 4 for details of declared compliance status. A Compliance Assessment Audit Table indicating status of compliance has been prepared for MS1237 in accordance with the Post Assessment Guideline No.1 – *Preparing an Audit Table* (PAG 1) (OEPA, 2012b). The Audit Table is provided in Section 6 (Table 6-1).

3.3 EPBC 2019/8437

A conditions compliance table indicating status of compliance has been prepared for EPBC 2019/8437 in accordance with the DCCEEW Annual Compliance Report Guidelines – *Reporting under the* Environment Protection and Biodiversity Conservation Act 1999. The Audit Table is provided in Section 6 (Table 6-2).

Four non-compliance events have been recorded in relation to approval EPBC 2019/8437. Refer to section 4 for details of declared compliance status and section 5.1 for further information related to non-compliance events.

4 DETAILS OF DECLARED COMPLIANCE STATUS

This section details the compliance status for the relevant clauses of the State Agreement and for each condition of MS1237 and EPBC 2019/8437 in the reporting period. Compliance is detailed by conditions under defined Environmental Factors which aligns with the structure of MS1237.

4.1 ALUMINA REFINERY (WORSLEY) AGREEMENT ACT 1973

Compliance for the State Agreement is reviewed for clauses 5A(1) – (3) and clauses 12C.

Table 4-1 State Agreement: Worsley Alumina Assessment of Compliance Status

Clause	Detail	Status	Further Information
5A(1)	The Joint Venturers shall not later than the 31st of October 1978 submit to the Minister for approval by the State a detailed environmental review and management programme as to measures to be taken in respect of the Joint Venturers' undertakings pursuant to Clause 5, and the mining operations associated therewith for the protection and management of the environment including rehabilitation and/or restoration of the mined areas and areas used for the disposal of red mud, the prevention of the discharge of tailings, slimes, pollutants or overburden and the minimisation of salt release into the surrounding country, water courses, lakes or underground water supplies and the prevention of soil erosion	C	Section 1.3.1
5A(2)	The Joint Venturers shall implement the environmental review and management programme approved under subclause (1) of this Clause and any variation thereof that the State may approve from time to time and shall carry out continuous investigations and research (including monitoring and the study of sample areas) to ascertain the effectiveness of the measures they are taking pursuant to the approved environmental review and management programme for the protection and management of the environment	C	Section 4.6 - 4.11
5A(3)	The Joint Venturers shall, during the currency of this Agreement, at yearly intervals commencing twelve months after the environmental review and management programme is approved, submit an interim report to the State concerning investigations and research carried out pursuant to subclause (2) of this Clause and at 3 yearly intervals commencing from such date submit a detailed report to the State on the result of the investigations and research during the previous 3 years	C	Section 1.3.1
12C(3)	The Joint Venturers shall provide for the purposes of this Clause appropriate measuring equipment approved by the Minister and shall operate this equipment in accordance with arrangements to be agreed between the Minister and the Joint Venturers from time to time and shall report the results thereof to the Minister at such times and in such format as may be required by the Minister.	C	Section 2.4.2

4.2 MODIFICATIONS TO MS1237

No requests to amend MS1237 within the scope of condition 65 were made during the reporting period. Given this, no notifications to DCCEEW in accordance with conditions 65 and 66 of EPBC 2019/8437 were required.

4.3 KEY PROPOSAL CHARACTERISTICS

Compliance against the Key Proposal Characteristics of MS1237 have been provided separately in Table 4-2 for ease of assessment. Compliance against all further conditions has been assessed in Section 6, Table 6-1. In accordance with MS1237 condition C3-1 and C3-2, Worsley Alumina has included, as part of this CAR, a Compliance Monitoring Report which outlines the monitoring for MS1237 Part A and the outcomes of MS1237 Part B where a monitoring plan is not expressly required to measure environmental outcomes. The Compliance Monitoring Report is provided in Appendix 1: Compliance Monitoring Report. Worsley Alumina is compliant with proposal elements outlined in MS1237 condition A1-1. Compliance with MS1237 was assessed for each condition applicable during the reporting period. The identified non-compliances and potential non-compliances are summarised in Section 5 and reflected consistently in the MS1237 Audit Table in Section 6.1.

Table 4-2 MS1237 Proposal Limitations and Extent of Proposal (Condition A1-1 of MS1237)

AUDIT CODE	SUBJECT	REQUIREMENT			STATUS	FURTHER INFORMATION
		PROPOSAL ELEMENT	LOCATION	MAXIMUM EXTENT/CAPACITY		
MS1237:A1-1	Proposal Implementation	The proponent must ensure that the proposal is implemented in such a manner that the following limitations or maximum extents / capacities / ranges are not exceeded				
		Alumina Production	N/A	4.7 Mtpa	C	4.32 Mt Section 2.3
		Bauxite Mining				
		Physical elements				
		Mining Development Envelope	Worsley Mining Development Envelope (WMDE) – Figure 1	27,629 ha	C	No change to the WMDE
			Extended Mining Areas – Figure 3	74,918 ha	C	No change to the EMAs
		Existing Overland Bauxite Conveyor	Figure 3	Mine to refinery	C	No change to the OBC
		Bauxite Transport Corridor (BTC) connecting existing conveyor to Hotham North mining region in the WMDE	Bauxite Transport Corridor (BTC) Development Envelope – Figure 1	4,146 ha of which 3,332 ha overlaps the WMDE	C	No change to the BTC
		Bauxite transport to service Extended Mining Areas	Figure 3	34 km extension from Hotham North to Central, 16 km spur within Central and 28 km extension from Central to Brookton	NR	Section 4.5
		Clearing of Native Vegetation	Within WMDE	8,823 ha	C	Table 4-8
			Within BTC	160 ha	C	Table 4-8
			Within Extended Mining Areas and for transport to service these areas	8,400 ha	NR	Table 4-8
		Operational Elements				

AUDIT CODE	SUBJECT	REQUIREMENT			STATUS	FURTHER INFORMATION
		PROPOSAL ELEMENT	LOCATION	MAXIMUM EXTENT/CAPACITY		
		Mining rate	WMDE and Extended Mining Areas	Up to 18.8 Mtpa (dry)	C	FY256 17.06 Mt
		Bauxite transport	Existing Overland Conveyor	Cable belt conveyor and conventional idler type conveyor	C	No change to type of conveyor
			BTC and Extended Mining Areas	Conventional idler type conveyors and/or truck transport	C	No change to type of conveyor
		Crushing facilities	WMDE and Extended Mining Areas	4 primary crushing facilities 2 secondary crushing facilities	C	2 Primary crushers 2 Secondary crushers No new crushing facilities added
		Water source and use for mining operations	Groundwater and surface water in the vicinity of mining areas	900 ML/a	C	795.7 ML/a Section 4.8.2 Table 4-18
		Refinery				
		Physical Elements				
		Refinery Lease Area (RLA)	Figure 2	2,500 ha	C	No change to the RLA
		Contingency Bauxite Mining Envelope (CBME) – for Contingency Mining and Residue Storage	Figure 2	747 ha within the RLA	C	No change to the CBME
		Bauxite Residue Disposal Area	Figure 2	Existing footprint plus expansion into CBME to a height of RL 345 m AHD	C	: Compliance Monitoring Report
		Wellington Dam Pipeline	Figure 3	Wellington Dam to Refinery	C	No change to pipeline

AUDIT CODE	SUBJECT	REQUIREMENT			STATUS	FURTHER INFORMATION
		PROPOSAL ELEMENT	LOCATION	MAXIMUM EXTENT/CAPACITY		
		Clearing of Native Vegetation	Within Refinery Lease Area (RLA) for maintenance activities	66.6 ha	C	Table 4-8
			Within Contingency Bauxite Mining Envelope (CBME) for maintenance activities and contingency mining and residue storage	135 ha	C	Table 4-8
			Within Wellington National Park for the Wellington Dam Pipeline	8 ha	C	Table 4-8
		Operational Elements				
		Water source and use	Surface water allocation for the RLA	Freshwater Lake 2.6 GL (Augustus River) and offsite purchase from water providers as required.	C	1.27 GL from Freshwater Lake 4.8.3
		Bauxite stockpiles	Within the RLA	1.92 Mt approximately	C	: Compliance Monitoring Report
		Bauxite residue deposition rate	Within the RLA	18.5 Mtpa (dry)	C	10.3 million dry tonnes : Compliance Monitoring Report
		Digestion process area emissions control	Within the RLA	Regenerative thermal oxidiser	PNC	Did not operate during the reporting period
		Calciners – fuel Particulate emissions control	Within the RLA	Natural gas electrostatic precipitators on five calciners, baghouse system on one calciner	C	: Compliance Monitoring Report

AUDIT CODE	SUBJECT	REQUIREMENT			STATUS	FURTHER INFORMATION
		PROPOSAL ELEMENT	LOCATION	MAXIMUM EXTENT/CAPACITY		
		Liquor burner emission control	Within the RLA	Baghouse, regenerative thermal oxidiser and wet scrubber	C	: Compliance Monitoring Report
		Gas fired cogeneration – capacity	Within the RLA	120 MW	C	: Compliance Monitoring Report
		Gas fired cogeneration (alternative) – capacity	Within the RLA	120 MW	C	: Compliance Monitoring Report
		Coal fired facility or gas fired facility (conversion) capacity Particulate emission control	Within the RLA	110 MW (electrical) Electrostatic precipitators on coal fired facilities only	C	: Compliance Monitoring Report
		Coal fired boiler – normal capacity Emission control	Within the RLA	Two circulating fluidised bed multifuel co-generation boilers 100 MW (electrical) 400 MW (thermal) Limestone injection and baghouse filters	C	: Compliance Monitoring Report
		Construction and Support Facilities				
		Physical Elements				
		Temporary construction facilities including mobile offices and ablutions, laydown areas and field maintenance facilities, after the date of this Statement	Within the WMDE	Clearing of up to 20 **ha** of native vegetation (included within the WMDE clearing) for temporary construction and support facilities. Facilities will be located on pre-disturbed areas where possible	NR	No clearing for temporary facilities was undertaken during the reporting period Table 4-8
		Operational Elements				
		Water use	Local groundwater sources within and adjacent to the WMDE	Temporary water supply of approximately 580 ML/a for the duration of the construction of WMDE and BTC haul roads and the conveyor system (up to three years)	C	102.69 ML Table 4-19
		Other elements which affect extents of effects on the environment				

AUDIT CODE	SUBJECT	REQUIREMENT			STATUS	FURTHER INFORMATION
		PROPOSAL ELEMENT	LOCATION	MAXIMUM EXTENT/CAPACITY		
		Proposal time	Maximum project life	Up to 2075	C	
			Maximum project life in the WMDE	15 years	C	
		Units and abbreviations GL – gigalitres ha – hectares km – kilometres ML/a – megalitres per annum m AHD – metres Australian Height Datum MW – megawatts Mt – million tonnes Mtpa – million tonnes per annum Mtpa CO_2-e – million tonnes per annum of carbon dioxide equivalents RL – reduced level *Source: Ministerial Statement No 1237*				

* Status Description (MS1237) include:

- Compliant (C)
- Completed (CLD)
- Not required at this stage (NR)
- Potentially Non-compliance (PNC)
- Non-compliant (NC)

4.4 GREENHOUSE GAS EMISSIONS

MS1237 condition B1-1 requires the proponent to notify the CEO (of DWER) in writing if becoming aware that implementation of the proposal will not be or is not expected to be regulated under the Safeguard Legislation. Worsley Alumina is currently registered as a safeguard facility “WOR01”.

The CEO has not requested Worsley Alumina provide a report on the implications to the Revised Proposal due to amendments or proposed amendments to the Safeguard Legislation. As such, assessment of compliance against MS1237 condition B1-2 and B1-3 is not required with respect to the reporting period.

MS1237 condition B1-4 requires the proponent to provide a report of, among other things, the non-safeguard GHG emissions within six months of the conclusion of five years of the date of MS1237. This report is due by 20 June 2029 and as such, assessment of compliance against MS1237 condition B1-4 is not required with respect to the reporting period.

MS1237 condition B1-5 is only applicable after 1 July 2050. As such assessment of compliance against MS1237 condition B1-5 is not required with respect to the reporting period.

4.5 EXTENDED MINING AREAS (EMAS)

Mining is not currently planned within the EMAs in the near to midterm mine plans. Assessment of compliance with conditions B4-6 to B11 within Part B(B) of MS1237 is currently not required as mining is not planned to commence within 12 months.

Under MS1237 Part B(B), Worsley Alumina has conditional approval to operate in the EMAs. Prior to ground disturbing activities in the EMAs, Worsley Alumina must first undertake Biodiversity-related investigations as detailed in the Scope of Biodiversity-related Investigations (BIS) and provide the Minister for the Environment with a Biodiversity-related Investigations Report (BIR). The BIS was first approved in 2007 and during 2023 Worsley Alumina undertook to revise and update the BIS to better reflect contemporary standards. The amended BIS was reviewed by members of the EMLG with feedback incorporated. The DCCEEW also reviewed the amended BIS and provided endorsement for the amended version in July 2024. The BIS was subsequently submitted to EPA Services on 4 June 2025 in accordance with the requirements of MS1237 condition B4-2. Once the amended BIS is endorsed by the State Minister for Environment, Worsley Alumina will make the document publicly available on the Worsley Alumina website in accordance with MS1237 condition B4-5. The original endorsed version of the BIS (2007) is available on the Worsley Alumina website as required by condition B4-5.

During the reporting period, the State Minister for Environment has not initiated a review and/or amendments to the BIS (MS1237 condition B4-3).

4.5.1 Biodiversity-related Investigations – EMAs

Ground disturbing activities within the EMAs cannot commence until after endorsement and publication of the Biodiversity-related Investigations Report (BIR) and the endorsement of several other plans (as outlined in section 4.5.4 to 4.5.6), noting exploration drilling activities are excluded from the definition of ground disturbing activities under MS1237 and will continue to support forward planning. Minor disturbance required to enable monitoring activities in accordance with the BIS will also continue. Once prepared and endorsed, the BIR will be made available on the Worsley Alumina website in accordance with MS1237 Condition B4-7.

No ground disturbing activities have commenced within the EMAs. Worsley Alumina has commenced preliminary biodiversity-related investigations within the EMAs and surrounding areas in accordance with the BIS, as required by MS1237 Condition B4-1 (see sections 4.5.1.1 to 4.5.1.6). This work has included preliminary flora, fauna and groundwater investigations and will be expanded over coming seasons as the

potential mining area is further refined. The outcomes of these investigations will inform preparation of the BIR required under MS1237 Condition B4-6.

Consistent with the staged approach outlined in the BIS, investigation outcomes and, where appropriate, associated final reports will be provided as studies are completed during Stage 2. Following completion of the biodiversity investigations and submission of the BIR, the relevant study reports will be uploaded to the Western Australian Government's Index of Surveys for Assessment (ISA) via Environment Online. The following sections provide an update on investigations undertaken to date.

4.5.1.1 Short Range Endemic Invertebrates

Short Range Endemic (SRE) monitoring has been completed across the EMA Study Area. This work included sampling across 83 sites with an additional 7 sites sampled during a concurrent dry pitfall trapping survey. The field survey comprised a total survey effort of 27,490 wet pitfall trap nights, 490 dry pitfall trap nights, 85 burrow excavations, 496 litter sieves, and 166 hours of active foraging. A total of 1,646 specimens comprising 114 taxa from SRE groups were collected during the field survey. These taxa comprise 7 Confirmed SREs (2 millipedes, 3 pseudoscorpions, one scorpion and one mygalomorph spider), 5 Likely SREs (4 isopods, one millipede), 78 Potential SREs (18 isopods, 5 land snails, 7 millipedes, 33 mygalomorph spiders, 6 harvestmen, 8 pseudoscorpions, one scorpion) and a further 24 Widespread taxa. Of the 78 Potential SRE taxa recorded, 14 could not be genetically or morphologically matched to existing specimens and are considered new species, of which 12 are only known from inside the study area. All habitats within the study area were found to support a diverse assemblage of SRE taxa. Habitat type did not appear to be the dominant constraining factor in abundance and occurrence of SREs, instead variable environmental features within individual sites and their overall position in the landscape appeared more influential, such as proximity to valleys, site litter density and localised rocky outcropping. Indicator curves for all SRE groups, except for scorpions, suggest that further sampling within the survey area would likely result in detection of additional species.

The reporting for this component is complete, and the report has been peer reviewed (Phoenix Environmental Sciences 2026a, provided in Appendix 4: Flora and Fauna Reports).

4.5.1.2 Vertebrate Fauna

A desktop assessment for vertebrate fauna was completed by Phoenix Environmental Sciences in 2024. The outcomes of this desktop assessment were used to support the development of a detailed monitoring program for vertebrate fauna. Surveys in accordance with this monitoring program commenced in late 2024 and are ongoing. Given the extensive area requiring survey, the study area was divided into 5 Zones. Each Zone has had at least one season of survey completed to date with additional detailed and targeted surveys planned to take place in FY2027. A summary of vertebrate fauna surveys completed to date is provided in Table 4-3.

Table 4-3 Summary of Fauna Surveys to Date - EMAs

ZONE	SURVEY TYPE	SEASON	DATES
Zone 4	Detailed and targeted vertebrate fauna survey (Phase 1)	Spring/Summer	21 November – 2 December 2024
Zone 4	Detailed and targeted vertebrate fauna survey (Phase 2)	Summer	12-22 February 2025
Zone 5	Detailed and targeted vertebrate fauna survey (Phase 1)	Autumn	17-26 March 2025
All	Black Cockatoo Habitat Assessment	Autumn	16-23 May 2025
Zone 3	Detailed and targeted vertebrate fauna survey (Phase 1)	Spring	10-19 November 2025
Zone 5	Detailed and targeted vertebrate fauna survey (Phase 2)	Summer	2-12 December 2025
Zone 2	Detailed and targeted vertebrate fauna survey (Phase 1)	Summer	27 January – 6 February
Zone 3	Detailed and targeted vertebrate fauna survey (Phase 2)	Summer	10-20 February 2026
Zone 1	Detailed and targeted vertebrate fauna survey (Phase 1)	Summer/Autumn	24 February – 6 March 2026

Analysis of data collected during surveys and preparation of associated reports is currently underway. To date the surveys have recorded evidence of ten conservation significant species within the EMA Study Area including:

- *Calyptorhynchus banksii naso* (Forest red-tailed black cockatoo)
- *Zanda baudinii* (Baudin's black cockatoo)
- *Zanda latirostris* (Carnaby's black cockatoo)
- *Dasyurus geoffroii* (Chuditch)
- *Isoodon fusciventer* (Quenda)
- *Phascogale calura* (Red-tailed Phascogale)
- *Notamacropus irma* (Western brush wallaby)
- *Falsistrellus mackenziei* (Western false pipistrelle)
- *Bettongia penicillata ogilbyi* (Woylie)
- *Ctenotus delli* (Dell's Skink)

Interim reports for Zones 3, 4 and 5 (Phoenix Environmental Sciences 2026b, 2026c & 2026d) are provided in Appendix 4: Flora and Fauna Reports.

4.5.1.3 Flora and Vegetation

A flora and vegetation desktop assessment was completed by Mattiske Consulting (Mattiske 2025, provided in Appendix 4: Flora and Fauna Reports). The outcomes of this desktop assessment were used by Phoenix Environmental Sciences to support the development of a flora and vegetation survey program for the EMA Study Region. Flora and vegetation monitoring commenced in 2025. During the 2025 survey period a total of 464 relevés, 553 supplementary field sites and ~4,700 flora taxa records were recorded. A total of 29 significant flora were recorded within the study area including:

- 3 Threatened flora species
- 19 Priority flora species
- 4 potential new taxa
- one taxon with an unusual morphotype and range extension; and
- 2 potential Priority taxa.

All Threatened flora recorded during the field surveys were within known populations. A total of 38 new populations of Priority flora were identified; these were derived from 12 Priority species.

The 4 potential new taxa and unusual morphotype taxa were all sent to the WA herbarium for identification.

No new vegetation was definitively identified as representing a TEC or PEC during the 2025 surveys. However, various locations around the EMA Study Area were tagged for further evaluation for potentially representing new instances of TECs or PECs. Monitoring will continue across the EMA Study Area during the next reporting period. A Technical Memo summarising flora surveys completed in the 2025 survey period is provided in Appendix 4: Flora and Fauna Reports (Phoenix Environmental Sciences 2026e).

4.5.1.4 Salinity & Groundwater

In 2023 salinity risk assessments in the form of flux density analyses (FDA) were completed for each EMA envelope by Water and Environmental Consultants (WEC). This assessment included the collection of all available groundwater, surface water and salt storage monitoring information in the study area. Indicative disturbance areas were then defined and input into a model to understand potential salinity risk and identify potential salinity-hotspots. The FDA process also identified potential groundwater monitoring sites to support the impact assessment for inland waters (WEC 2023a-c, provided in Appendix 6: Water Monitoring Results and Reports.

In addition, CDM Smith were engaged to conduct Hydrogeological Assessments of the EMAs. A desktop groundwater assessment, preliminary conceptual model and gap analysis was completed for each EMA. This process identified target groundwater monitoring locations to support development of a numerical groundwater model (see CDM Smith 2023a-b & CDM Smith 2024 in Appendix 6: Water Monitoring Results and Reports).

Following the completion of the above-described desktop analyses, a site rationalisation process was undertaken in consultation with CDM Smith and WEC to ensure the overall monitoring program would meet the needs of both numerical modelling and salinity impact assessment. Field assessments of the targeted groundwater monitoring locations then commenced to ensure impacts associated with monitoring bore installations were minimised to the extent reasonably practicable. Groundwater monitoring locations have now been finalised for three EMAs (Hotham North Extension, Central and Brookton). To date twelve monitoring locations have been installed in Hotham North Extension. Further installations are planned in Central and Brookton during FY2027.

4.5.1.5 Surface Water Monitoring

In 2023 surface water desktop assessments were completed for all the EMAs to understand surface water quantity and quality (see Alluvium 2023a & 2023b in Appendix 6: Water Monitoring Results and Reports). These provided an assessment of surface water quantity and quality for the EMAs and included the assessment of historic and current conditions in terms of water quantity as streamflow and precipitation, and the historic and current water quality conditions using publicly available data. One of the main objectives of the report was to establish water quantity trends over the historic period to assess if water quantity (i.e. discharge and precipitation) were generally increasing or decreasing. For water quality, the objective was to establish pre-mining conditions at relevant locations. The report also addressed data gaps in the available data sources. The report included recommendations for future monitoring sites to ensure any changes to water quantity and quality can be characterised following the commencement of mining operations in these areas.

Following receipt of the surface water desktop assessments site inspections were conducted with final monitoring locations selected. Given the low flow nature of the majority of streams in the EMAs loggers will be required to be installed to ensure short duration flow periods are captured. To support this an Aboriginal heritage survey of the proposed survey locations was completed. A report for this survey is yet to be received to determine whether logger installations may proceed.

4.5.1.6 Phytophthora Dieback

Given the size of the EMA Study Area, comprehensive dieback interpretation across its entirety was determined to be impossible within required timeframes and unnecessary for the intended purpose. Instead, a combined linear and broadscale assessment methodology was devised by Glevan Consulting to inform a forest hygiene risk assessment for the Study Area. This included linear dieback interpretation along all accessible tracks throughout the Study Area which was then used to inform a risk assessment for waterways. Where an upstream section of a waterway intersected a known Infested area, the entire downstream extent of the connected waterway within the Study Area was classified as High Risk. Waterways that did not intersect with, or occur downstream of, a known Infested area were classified as Low Risk. The report associated with this survey work has been submitted to the Disease and Hygiene Standards Officer at DBCA for review and will be included in a subsequent CAR once endorsed.

4.5.1.7 EMA Reports Received to Date

Only one final peer reviewed report has been received to date however, a number of interim reports have been provided that give a summary of findings to date. A list of reports received to date is provided in Table 4-4.

Table 4-4 Summary of Biodiversity-Related Investigations Reports

Environmental Value	Report Title	Consultant	Date
Terrestrial Fauna	Vertebrate Fauna Desktop Report for the Extended Mining Areas	Phoenix	Jan 2025
	Zone 3 Interim Memorandum Update	Phoenix	May 2026
	Zone 4 Interim Memorandum Update	Phoenix	May 2026
	Zone 5 Interim Memorandum Update	Phoenix	May 2026
	Short-range endemic and significant invertebrate survey for the Extended Mining Areas	Phoenix	Mar 2026
Flora & Vegetation	Desktop Assessment of Flora and Vegetation Values - EMA Study Areas	Mattiske Consulting	May 2025
	Reconnaissance flora survey for the Regional Study Area and Extended Mining Areas of Worsley Alumina Technical memorandum report	Phoenix	Apr 2026
Inland Waters	Salinity Risk Assessment for the Brookton Mining Area Using Flux Density Analysis	WEC	May 2023
	Salinity Risk Assessment for the East Quindanning & Morgans Mining Areas Using Flux Density Analysis	WEC	Jul 2023
	Salinity Risk Assessment for the Central & Hotham North Extension Mining Areas Using Flux Density Analysis	WEC	Dec 2023
	Hydrogeological Assessment – Extended Mining Areas – Hotham North	CDM Smith	Jun 2023
	Hydrogeological Assessment – Extended Mining Areas – Quindanning	CDM Smith	Jun 2023
	Hydrogeological Assessment – Baseline Studies – Brookton & Mid Central Extended Mining Areas	CDM Smith	Jan 2024
	Surface Water Assessment, Brookton and Mid Central mining expansion areas	Alluvium	Jan 2023
	Surface Water background assessment for the Quindanning and Hotham North Extended Mining Areas	Alluvium	May 2023
Dieback	Phytophthora Dieback Report – EMA Linear and Broadscale Risk Assessment (submitted to DBCA DHSO for endorsement)	Glevan Consulting	July 2026

4.5.2 Flora and Vegetation - EMAs

MS1237 condition B5-1(1) – (4) is related to the implementation of ground disturbing activities within the EMAs. As this has not yet commenced, compliance with these conditions is not yet required to be assessed.

4.5.3 Terrestrial Fauna - EMAs

MS1237 condition B6-1 (1) – (2) is related to the implementation of the Revised Proposal within the EMAs. As this has not yet commenced, compliance with these conditions is not yet required to be assessed.

4.5.4 Transport Corridor Route Plan - EMAs

MS1237 conditions B7-1 – B7-7 relate to the provision and implementation of a Transport Corridor Plan for the EMAs. The plan is required to be provided prior to commencing ground disturbing activities within the EMAs and as this is still several years away, the document has not yet been prepared and compliance with these conditions is not yet required to be assessed.

4.5.5 Bauxite Mining Plans - EMAs

MS1237 conditions B8-1 – B8-11 relate to the preparation of a Bauxite Mining Plan prior to commencement of ground disturbing activities and the subsequent implementation of the plan. The plan is required to incorporate the findings of the BIR required by MS1237 condition B4-6. As outlined in section 4.5.1 the biodiversity-related investigations are not yet complete, and the BIR has not been finalised, consequently the drafting of the Bauxite Mining Plan has not yet commenced. As the document has not yet been prepared, compliance with these conditions is not yet required to be assessed.

4.5.6 Rehabilitation Plan - EMAs

MS1237 conditions B9-1 – B9-11 relate to the preparation of a Rehabilitation Plan prior to commencement of ground disturbing activities and the subsequent implementation of the plan. The plan is required to incorporate the findings of the BIR required by MS1237 condition B4-6. As outlined in section 4.5.1 the biodiversity-related investigations are not yet complete, and the BIR has not been finalised, consequently the drafting of the Rehabilitation Plan has not yet commenced. As the document has not yet been prepared, compliance with these conditions is not yet required to be assessed.

4.5.7 Environmental Offsets - EMAs

MS1237 conditions B10-1 – B10-3 relate to the implementation of an offsets program. This has not yet commenced as information from the BIR will be required to evaluate appropriate offsets. As outlined in section 4.5.1 the biodiversity-related investigations are not yet complete, and the BIR has not been finalised. Consequently, the compilation of an offset program has not yet commenced. As the offset program is not required to be in place currently, compliance with these conditions is not yet required to be assessed.

4.5.8 Water Supply Protection - EMAs

MS1237 conditions B11-1 – B11-3 relate to the preparation of a Water Resource Management Plan prior to commencement of ground disturbing activities and the subsequent implementation of the plan. Discussions have commenced with DWER regarding installation of groundwater monitoring bores within the Public Drinking Water Source Areas to determine whether this specific activity triggers the requirement for a Water Resource Management Plan to be developed and approved. As no ground disturbing activities have commenced within the PDWSA areas compliance with these conditions is not yet required to be assessed.

4.5.9 Time Limit for Proposal Implementation – EMAs

MS1237 condition D4-1 requires substantial commencement of the Revised Proposal within the EMAs within fifteen years from the date of MS1237 which will be 20 December 2039. MS1237 conditions D4-2 and D4-3 relate to the outcome of D4-1. Compliance with conditions D4-1, D4-2, D4-3 is therefore not yet required to be assessed.

4.6 FLORA AND VEGETATION

4.6.1 Flora and Vegetation Environmental Management Plan

MS1237 conditions B12-6 and B12-7 require Worsley Alumina to prepare and submit a Flora and Vegetation Environmental Management Plan (FVMP) and to not commence ground disturbing activities within the proposal area until the CEO of DWER has confirmed in writing that the management plan meets the requirements of the relevant conditions or as otherwise agreed by the CEO (MS1237 condition C1-1). During the reporting period Worsley operated under three versions of the FVMP. FVMP (V4.0) was applied to operations from 5 July 2025 to 26 September 2025. A minor revision to the FVMP (V4.0) was made on 29 August 2025, in accordance with MS1237 condition C2-3. The updated FVMP (V5.0) was implemented over the period 27 September 2025 – 31 March 2026. All revisions were made available on the Worsley Alumina website in accordance with conditions C2-6 and D5-1. Version 4.0 and Version 5.1 remain available on the website in the Management Plans archive (Worsley Alumina - Documents) A second minor amendment was requested (FVMP V6.0) but was not approved for implementation.

The annual FVMP (V7.0) was submitted for CEO approval on 23 January 2026. Confirmation that FVMP (V7.0) met the requirements of the relevant conditions was received from DWER on 31 Mar 2026. A copy of this letter is available in Appendix 3: Environmental Management Plans. FVMP (V7.0) was implemented from 1 April 2026 and remains in effect as at the end of the reporting period.

In accordance with condition C2-6, Version 7.0 of the FVMP was published on the Worsley Alumina website (Flora and Vegetation Management Plan V7) and supports compliance with conditions C2-6 and D5-1.

Table 4-5 and Table 4-6 provide Worsley Alumina's performance against the FVMP's outcome-based provisions and objective based provisions, respectively.

Table 4-5 Performance Against FVMP Outcome Based Provisions

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
1. Disturb no more than 3,855 ha of native vegetation, 604 ha of rehabilitation vegetation and 74 ha of plantation vegetation	Verified spatial data	75% (2,890ha) Native Vegetation	95% (3,662ha) Native Vegetation		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-7 and Figure 4-1 GIS information is provided in Appendix 2: GIS Information	Y
		75% (450ha) Rehabilitation	95% (570ha) Rehabilitation		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-7 and Figure 4-1 GIS information is provided in Appendix 2: GIS Information	Y
		75% (56ha) Plantation	95% (70ha) Plantation		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-7 and Figure 4-1 GIS information is provided in Appendix 2: GIS Information	Y
2. Ensure no disturbance or adverse impacts to threatened flora including *Caladenia hopperiana*	Verified spatial data for disturbance and proximity to Protected Areas	Disturbance proposed within 30 m of a defined Protected Area containing an environmental value listed under Condition B12-1 (2) of MS1237.	Disturbance within Protected Areas defined for protection of environmental values listed under Condition B12-1 (2).		
		Five trigger events occurred during the reporting period	No threshold exceedances recorded	During the reporting period, five locations were identified as being within 30m of the defined Protected Area containing values listed under B12-1(2) of MS1237. This consisted of: • Clearing within 30m of the buffer surrounding the Saddleback Old Growth Forest Protected Area (WS07). With clearing occurring 63m away from the DBCA delineated boundary of the Old Growth Forest. • Clearing within 30m of the protection buffer surrounding a Saddleback Heath community (Vegetation type G3) Protected Area (NS05). With clearing occurring 46m away from the delineated boundary of the heath community. • Clearing within 30m of the protection buffer surrounding a Saddleback Heath community (Vegetation type G1) Protected Area (HA01JV). With clearing occurring 54m away from the delineated boundary of the heath community. • Clearing within 30m of the Protected Area for a Saddleback Heath community (Vegetation type G1) (MNW055). With clearing occurring 49m away from the delineated boundary of the heath community. • Clearing within 30m of the Protected Area for a Saddleback Heath community (Vegetation type G1) (MNW070). The area impacted represented private property pasture areas which had been cleared prior to mining related disturbance activities. No additional controls were required for any of the above listed disturbance activities. GIS information is provided in Appendix 2: GIS Information.	Y
a.	Abundance (number of flowering plants) of *Caladenia hopperiana* within Population 2	Abundance of C. *hopperiana* within Population 2 is <282 individual flowering plants, where decline in abundance is found to be inconsistent with control sites	Abundance of *C. hopperiana* within Population 2 recorded as <266 individual plants, where decline in abundance is found to be inconsistent with control sites. *** The mean abundance from surveys conducted in 2023 and 2024 minus 2 standard deviations.		
		No trigger exceedances recorded	No threshold exceedances recorded	Monitoring for C hopperiana is ongoing, the baseline population was obtained in Spring 2024.Spring 2025 monitoring identified a recorded a population of 413 flowing plants, an additional 837 individuals were recorded as leaves or buds near to recorded plants and were considered likely to be the species. The total population had decreased across all sub populations by 44%. The plants recorded in Population 2 decreased to 525 (139 flowering and 386 as leaves or buds). Resulting in a total decrease of 40% (48% as flowers and 37% as leaves/buds). Although a significant drop in recorded numbers, the observed decrease at population 2 remains consistent with what was observed at the control sites, with a decrease in total flower numbers of 49%, a decrease in leaves/buds by 41% across all populations. Low rainfall during the critical late autumn and early winter period was identified as a likely contributor to reduced plant establishment and flowering in spring 2025. Monitoring will continue in spring 2026 and this will be reported in the next CAR.	Y
b. *Caladenia caesarea* subsp. Mooradung	Abundance (number of flowering plants) *Caladenia caesarea* subsp. Mooradung	>10% decline in abundance from baseline* within a given population of *Caladenia caesarea* subsp. Mooradung where decline is found to be inconsistent with control sites	A sustained decline in abundance of *Caladenia caesarea* subsp. Mooradung is identified during follow-up Targeted surveys OR a decline in abundance >20% from baseline* is recorded within a given population of *Caladenia caesarea* subsp. Mooradung where decline is found to be inconsistent with control sites.		
		No trigger exceedances recorded	No threshold exceedances recorded	Monitoring for *C caesarea* subsp. Mooradung is ongoing. Results from the 2024 spring survey saw a total of 148 flowering plants across 2 populations, while the 2025 Spring survey saw a reduction in total flowering plants to 89 representing a 40% reduction in flowering plants. Both populations are currently identified as control sites due to their location and distance from Worsley Alumina	Y

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
				mining operations. The reduction in total numbers is consistent with that measured for *Caladenia hopperiana* and the low rainfall during the critical late autumn and early winter period was again identified as a likely contributor to reduced plant establishment and flowering in spring 2025. Further surveys will be undertaken in spring 2026 and this will be reported in the next CAR.	
d. the Mount Saddleback Heath Communities Priority Ecological Community and vegetation type G4	Vegetation condition (as assessed by qualified external consultant)	A decline in vegetation condition from baseline for PEC, vegetation type G4 or old growth forest areas where decline is found to be inconsistent with control sites	A sustained or further decline in vegetation condition from baseline for PECs, vegetation type G4 or old growth forest areas (as identified during follow-up survey) which is potentially attributable to implementation of the Revised Proposal.	Targeted vegetation condition – Protected Areas and Ecological Linkages	
		No trigger exceedances recorded	No threshold exceedances recorded	Vegetation monitoring program for PEC, Veg type G4 and old growth forest was planned for FY26 however, contractor availability and delays resulted in surveys only being partially completed. The surveys that were undertaken were outside the spring period. Surveys are planned for FY27 to align with an associated groundwater monitoring review. Monitoring is only required every three years, and with the approval having been granted in Dec 2024, first monitoring would be required no later than Dec 2027.	Y
e. f. other significant vegetation other significant flora unless authorised by the CEO	Identification of other significant vegetation or other significant flora Verified spatial data for disturbance	Other significant vegetation or other significant flora identified during biological surveys.	Unauthorised disturbance to other significant vegetation or other significant flora identified from annual audit of spatial data for disturbance boundaries		
		No trigger exceedances recorded	No threshold exceedances recorded	During the reporting period, a population of *Caladenia dorrienii* (Cossack Spider Orchid) was found within the Quindanning Timber Reserve. The orchid is listed as Endangered under the EPBC Act and labelled as Threatened under the DBCA *Biodiversity Conservation Act 2016* (WA). The survey established a population of 387 plants, with 207 in flower and 182 in bud or leaf stages. Population information and data have been provided to DBCA. Two plants of the DBCA listed Threatened species *Loricobbia pauciflora* were identified within the Mooradung Nature Reserve. Other species of potential significance identified, include; *Drosera silvicola* (P1), *Goodenia katabudjar* (P3), *Hibbertia ambita* (P1), *Senecio leucoglossus* (P4) and *Lasiopetalum cardiophyllum* (P4).	Y
3. Ensure no disturbance or adverse impacts to more than	Number of plants disturbed				
a. 2% of the known population of *Calytrix simplex* subsp. *simplex*;	2,058 plants	1.5% (30)	2% (41)		
		No trigger exceedances recorded	No threshold exceedances recorded	Table 4-9, Appendix 2: GIS Information; FVMP (Worsley Alumina - Documents)	Y
b. 8% of the known population of *Gastrolobium* sp. Prostrate Boddington;	99,572	6% (4,974)	8% (7,965)		
		No trigger exceedances recorded	No threshold exceedances recorded	Table 4-9, Appendix 2: GIS Information; FVMP (Worsley Alumina - Documents)	Y
c. 2% of the known population of *Hibbertia ambita*, until it can be demonstrated that more than 100 individuals have been recorded, in which case 10% of the known population;	44,532 plants	7.5% (3,339)	10% (4,453)		
		No trigger exceedances recorded	No threshold exceedances recorded	Table 4-9, Appendix 2: GIS Information, FVMP (Worsley Alumina - Documents)	Y
d. 2% of the known population of *Halgania corymbosa*, until it can be demonstrated that more than 100 individuals have been recorded, in which case 10% of the known population;	79 plants	1.5% (1)	2% (1)		
		No trigger exceedances recorded	No threshold exceedances recorded	Table 4-9, Appendix 2: GIS Information, FVMP (Worsley Alumina - Documents)	Y
e. 11.9 ha of Williams vegetation complex after the date of this Statement; and	Reconciled spatial data 11.9ha	75% (8.9ha)	95% (11.3ha)		
		No trigger exceedances recorded	No threshold exceedances recorded	Table 4-9, Appendix 2: GIS Information, FVMP (Worsley Alumina - Documents)	Y
f. 332.5 ha of Michibin vegetation complex after the	332.5ha	75% (249.4ha)	95% (316ha)		

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
date of this Statement.					
		No trigger exceedances recorded	No threshold exceedances recorded	Table 4-9, Appendix 2: GIS Information, FVMP (Worsley Alumina - Documents)	Y
4. Ensure that the proposal does not cause or contribute to the introduction and/or spread of forest disease, including *Phytophthora cinnamomi*, outside of areas identified as infected by the pre-clearance surveys required by condition B12-	*Phytophthora cinnamomi* occurrence	New *Phytophthora cinnamomi* (dieback) infestation identified during dieback interpretation	Identification of a new dieback infestation likely to have been caused by Worsley operations		
		No trigger events recorded	No threshold exceedances recorded	No new infestations identified.	Y

Table 4-6 Performance Against FVMP Objective Based Provisions

OBJECTIVE	PERFORMANCE INDICATOR / STANDARD	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
1. Avoid and minimise indirect impacts to flora and vegetation including but not limited to impacts from forest disease, dust, weeds, fire, changes in groundwater and surface water and fragmentation	No new dieback infestation as a result of Worsley operations within the life of the proposal (15 years).	• Prior to clearing each area to be disturbed in the PAA, forest disease mapping will be undertaken in line with DBCA's Phytophthora Dieback Interpreters Manual for Lands Managed by the Department and DBCA's Phytophthora Dieback Management Manual (DBCA, 2020), as amended or replaced from time to time.[1] Dieback mapping must have been completed within 2 years prior to the proposed disturbance to be considered current. • If a dieback risk is identified within a proposed disturbance area, a detailed site specific Hygiene Management Plan must be developed prior to disturbance occurring. • Hygiene management plans of high-risk locations may be reviewed by DBCA for completeness and best practise management processes. • Infested topsoil shall be stockpiled separately within dieback infested areas and then returned to the demarcated infested area after mining is complete. • Gravel and topsoil must not be relocated from Crown to private land or vice-versa without the specific approval of the relevant government agency and / or land owner. • Access is restricted for known dieback infestations. • Dieback training required for all personnel with a Minesite Driver's Permit. • All vehicles must be clean of soil and vegetation prior to entry to site. • Vehicles and personnel must be clean on entry and clean on exit from private properties. • Areas that are identified as being infested with dieback resulting from mining and associated activities will be rehabilitated in a manner deemed appropriate to the level of impact. The rehabilitation process of each area will be included in the area-specific soil hygiene management plan. • Where appropriate, DBCA will be consulted to ensure the measures taken are consistent with DBCA objectives, and Worsley will review and update the procedures accordingly as required.	All areas were interpreted for dieback occurrence prior to clearing (see FVMP and Dieback Occurrence reports on proposed clearing areas (Glevan 2026) - Appendix 7). DBCA Disease Hygiene Standards Officer endorsement was received for all submitted contractor reports. Eight (8) area specific Hygiene Management Plans were created for areas with soil hygiene risks, including disturbance for mining and construction activities. One Hygiene Risk Assessment was reviewed with DBCA and endorsed for implementation specifically for the movement of fauna habitat material between forest blocks. The Forest Hygiene Management Procedure continued to be applied throughout the reporting period. Forest hygiene training continued to be provided during the reporting period.	Y
	Total disturbance for the environmental values, as outlined under condition B12-1 (3), is maintained within allowable limits for the duration of the operation.	• Complete targeted pre-clearance surveys for conservation significant flora and application of associated management actions in accordance with FVMP section 6.6.5. • Establish Protected Areas for any identified conservation significant flora and vegetation in accordance with FVMP section 6.6.1. • Report findings from pre-clearance surveys and management measures applied within the annual Flora and Vegetation Management Plan. • Conduct an annual review of the EPBC Act and BC Act listed species to identify any changes or additions to relevant conservation significant flora and vegetation. Amend pre-clearance monitoring programs as required through adaptive management processes.	Targeted pre-clearance surveys were completed in accordance with the FVMP. All relevant information was incorporated into the annual component of the FVMP. Protected Areas (minimum 50m buffer) were established for all identified occurrences of Threatened flora. Additional mapping for *Caladenia dorrienii* is scheduled for FY2027 with an expectation for an increase in the known locations and associated Protected Areas. Disturbance activities have been postponed within the vicinity of the identified population until a multiple year assessment is complete. An annual review of the listed conservation significant species occurred during FY2026. Updated listings are expected in July 2026 (FY27). No new conservation significant flora or vegetation were identified during the review and therefore no changes to pre-clearance surveys or management measures were applied. As discussed in section 4.11.1 a minor disturbance occurred within the buffer surrounding a heath community as a result of maintenance to existing infrastructure	Y
	Disturbance within High Quality Wandoo areas within the PAA will not exceed 25% for the duration of the project.	• Areas identified by aerial photography as high-quality Wandoo to be verified by June 2025. • The verified High Quality Wandoo areas must be maintained as a formal layer within site GIS system. • 10 Year Mine Plan will be used to monitor and forecast impacts to High Quality Wandoo annually. Impacts will be minimised where practicable.	Boundaries for high-quality Wandoo were unable to be verified during the reporting period due to a significant increase in botanical survey requirements associated with pre-clearance activities. Current boundaries, as submitted during assessment of the Revised Proposal have been maintained. Clearing within High Quality Wandoo to date represents 6.21 ha representing 2.1%.	Y

[1] As per MS1237 Condition B12-3.

OBJECTIVE	PERFORMANCE INDICATOR / STANDARD	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
		• Annual and cumulative clearing must be included in the Annual Environmental Report including tracking against management target		
	A progressive reduction in fragmentation within the PAA is observed from the 2028 assessment period for the duration of the project.	• Implement Ecological Linkages in accordance with FVMP section 6.6.3. • Implement Protected Areas and Protection Commitments in accordance with FVMP section 6.6.1 and 6.6.2 respectively. • Complete progressive rehabilitation in accordance with FVMP Section 6.6.8. • Implement ecological restoration in accordance with the Local Offset Management Plan (200001090). • Monitor regional fragmentation on a 5 yearly basis to understand effectiveness of management measures and implement adaptive management as required	This management target will commence from 2028 at which point it is anticipated that clearing associated with major construction activities for implementation of the proposal (e.g. primary haulage routes, supporting infrastructure etc) will be complete.	NR
	No new outbreaks of weeds of national significance or declared plants as a result of Worsley operations within the life of the proposal (15 years).	• Monitoring for weed presence in areas prior to disturbance and following rehabilitation. • Include identification of likely declared weed species in site training packages and encourage reporting by all personnel. • Regular inspection and treatment for known weed populations and prior to commencement of development activities. • New populations identified will be added to a maintained map of known declared weed locations. • Where appropriate, DBCA will be consulted to advise on the measures taken are consistent with DBCA objectives, and Worsley will review and update the procedures accordingly as required. • Monitor progress and effectiveness of management activities. • Alternate topsoil management practices may be applied in areas with a high weed load (i.e. pasture to bush). Trials are currently underway to assess best management techniques and adaptive management will be applied as required. • Forest Hygiene management practices as outlined in FVMP section 6.6.6.2. • Weed management measures as outlined in FVMP section 6.6.7	No new outbreaks of weeds of national significance or declared plants as a result of Worsley Alumina operations were recorded during the reporting period. Weed monitoring continued within areas prior to disturbance and in rehabilitation in accordance with the Rehabilitation monitoring program. Weed rehabilitation metrics are reported within the ARP. Targeted weed management activities against declared species continued at the mine during the reporting period. Forest Hygiene Management Procedure continued to be applied.	Y
	No recorded deaths of conservation significant flora or vegetation because of dust impacts from Worsley operations within the life of the proposal (15 years).	• Dust suppression applied on haul roads and within fixed plant. • Speed restricted to 60km/h onsite. Further speed restrictions applied during high dust conditions. • Monitoring of dust in accordance with Part V of the EP Act. • Protected Areas established in accordance with section 6.6.1 include buffers of at least 30m for all sensitive flora and vegetation. • 5 yearly vegetation condition monitoring to be completed for Protected Areas, Ecological Linkages and Groundwater Dependent Ecosystems (GDEs) to assess extent of indirect impacts on flora and vegetation.	No death of conservation significant flora due to dust impacts have been recorded during the reporting period. Identification of these will primarily be determined through the Targeted Flora and Vegetation Condition - Protected Areas and Ecological Linkages monitoring program which will be completed by December 2029 (5 yearly program). Pre-clearance surveys and additional targeted conservation significant flora surveys continue to be completed to improve the understanding of the known population of conservation significant flora within the PAA with new Protected Areas defined as appropriate (see annual component of FVMP).	Y
	No uncontrolled fires effecting >20 ha of remnant native vegetation, as a result of Worsley operations, for the duration of the operation (15 years).	• Installation and maintenance of fire breaks. • Compliance with fire, harvest and vehicle movement bans issued by local Shire. • Regular inspections of adjacent forested areas for spot fires must be completed during forest debris burning and a response vehicle must be on-hand. • Site emergency response team and equipment to be maintained to allow efficient response to uncontrolled fires in the local area. • If required, emergency clearing may be completed to minimise impacts from wildfire. • Compliance with requirements of DBCA/Worsley Working Arrangements	During the reporting period, no uncontrolled fires occurred within the PAA as a result of Worsley Alumina operations. Multiple uncontrolled fires occurred within the private property forest areas near the Newmont Boddington Gold Mine (within the PAA) due to lightning ignitions. Worsley Alumina continues to maintain firebreaks and comply with Total Fire Bans declared by the Department of Fire and Emergency Services and Harvest and Vehicle Movement Bans issued by local government. In the case of Worsley Joint Venture properties which are leased, the lessee is responsible for the maintenance of firebreaks as a component of the lease agreement.	Y

	No negative impacts to conservation significant flora and vegetation associated with groundwater mounding as a result of Worsley operations, for the duration of the operation (15 years).	• Minimise native vegetation disturbance and utilise existing cleared areas or areas that will be disturbed for future mining pits where possible.
		• Implement the WMP (01027243) including:
		  ○ groundwater and surface water monitoring programs with associated outcome- and objective-based provisions.
		  ○ Application of stream buffers.
		  ○ Installation of water management infrastructure (sumps, drainage lines etc.) for all operational areas including haul roads.
		  ○ Obtain Bed and Banks permits under the RIWI Act for any disturbance required to stream beds and banks.
		  ○ Reshape disturbed areas to match surrounding contours during progressive rehabilitation to minimise impacts on surface water drainage patterns.
		  ○ Regular sustainable yield testing for all production bores in the shallow and the deep fractured rock aquifer (6 yearly).
			Clearing plans were developed and signed off for all mining pits ensuring that clearing of native vegetation was reviewed and minimised where possible and all conservation significant flora and vegetation was considered prior to clearing.
			The WMP was implemented during the reporting period (see section 4.8).
			No impacts to conservation significant flora and vegetation associated with groundwater mounding due to Worsley Alumina operations were identified during the reporting period.
				Y

4.6.2 Environmental Outcomes / Disturbance

Ground disturbing activities for the Revised Proposal commenced following approval on 12 February 2025 from the CEO (of DWER) of the Management Plans required by condition C1-1, including the FVMP (Section 4.5.1), and after receiving Commonwealth approval EPBC 2019/8437, both of which were granted 11 February 2025.

Disturbance undertaken during the reporting period is provided in Table 4-7, and is within the disturbance limits of MS1237 condition B12-1(1) and EPBC 2019/8437 condition 2 and condition 3. Figure 4-4 spatially outlines the disturbance undertaken during the reporting period and also displays the Protected Areas. All known locations for the environmental values listed under MS1237 condition B12-1(2) and EPBC 2019/8437 condition 6 are included within Protected Areas. A minor disturbance occurred within a protected area ~0.01 ha. The area of overlap occurred as a result of maintenance of infrastructure (Ashcroft Road, which is a public road) which was within the Protected Area and therefore was undertaken in accordance with condition B2-1(4)(b). No impact to environmental values listed under MS1237 condition B12-1(2) and EPBC 2019/8437 condition 6 occurred as a result of this disturbance.

As reported in the FY2025 CAR, one small area (1.03 ha) included in the Protected Areas dataset submitted with the Revised Proposal had been cleared in 2024, prior to issuance of MS1237 – there were no occurrences of the environmental values listed in MS1237 condition B12-1(2) within this area. To offset this spatial data error, an additional area 1.01 ha in size has been incorporated into the adjacent Protected Area (see Figure 4-4) this area represents comparable remnant native vegetation to the original area in a nearby location. For any additional detail please refer to section 4.6.4.

Also included in the FY2025 CAR was a small encroachment of the Protected Areas boundary within the “Additional Protected Areas” of Quindanning Timber Reserve outlined in MS1237 Figure 6. This occurred within the limits of MS719, prior to the issue of MS1237 and will be rehabilitated in accordance with condition B2-1(6).

Table 4-8 provides a breakdown of the total disturbance of native vegetation per development envelope/area in accordance with the breakdown provided in condition A1-1 of MS1237. Disturbance for all areas is within the limits of the condition.

Table 4-9 addresses the disturbance and impact to Environmental Values outlined in MS1237 condition B12-1(3). Disturbance for all species and both vegetation complexes are within the limits of the condition.

4.6.2.1 Phytophthora (dieback) and other Forest Hygiene Management

Forest disease management at the BBM has been developed in consultation with, and endorsed by, DBCA (as part of the DBCA/Worsley Working Arrangements) and implemented on site. The key components of forest disease management at the BBM are:

- Detection of forest disease risks prior to mining;
- Planning operations to minimise disease risks;
- Prevention of disease introduction and spread;
- Education of the workforce about forest disease;
- Rehabilitation of disease areas where required; and
- Supporting research relevant to improving forest disease management.

All areas were interpreted for dieback occurrence prior to clearing in accordance with the FVMP. Details of forest hygiene surveys, conducted in accordance with MS1237 condition B12-3 and EPBC 2019/8437 condition 26, to support the ongoing operational activities at Worsley Alumina are detailed in the FVMP.

Table 4-7 Record of Disturbance – PAA

FACTOR	BASELINE	TRIGGER (ha)	THRESHOLD (ha)	TOTAL DISTURBED DURING REPORTING PERIOD (ha)	TOTAL CLEARED SINCE APPROVAL (ha)	REMAINING ALLOWANCE
Native Vegetation	3,855	2,891	3,662	328.3	365.65	3,489
Rehabilitation	604	453	574	21.9	21.9	582
Plantation	74	56	70	11.07	11.47	63
Degraded and Cleared Agricultural Land	1,679	N/A	N/A	165.46	242.1	1437

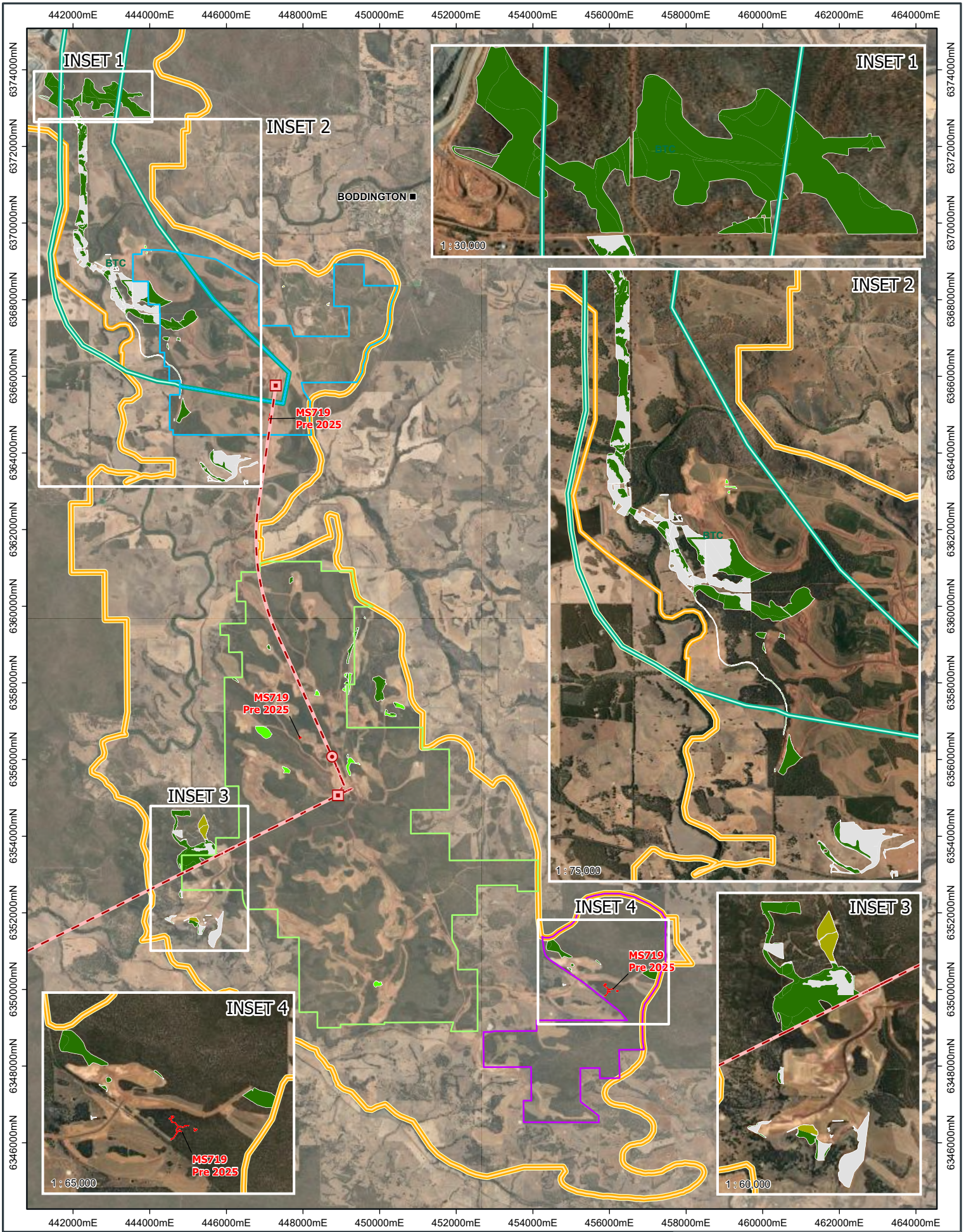
Table 4-8 Record of Native Vegetation Clearing – Development Envelopes

FACTOR	LIMIT (ha)	CLEARED DURING REPORTING PERIOD (ha)	TOTAL CLEARED SINCE APPROVAL (ha)	REMAINING ALLOWANCE
WMDE *	8,823	270.96	5380.96*	3,442
BTC	160	57.35	57.35	103
Extended Mining Areas (EMAs)	8,400	0	0	8,400
RLA (for maintenance activities)	66.6	0	53.4	13.2
CBME	135	0	0	135
Wellington Dam	8	0	2.8	5.2

* Includes areas cleared during MS719 that were picked up by survey within FY26, total area = 0.7 ha

Table 4-9 Record of Vegetation Disturbance Priority Flora and Vegetation Complex (PAA)

SPECIES	KNOWN POPULATION (# Plants)	TRIGGER (# Plants)	THRESHOLD (# Plants)	TOTAL CLEARED SINCE APPROVAL (# Plants)	REMAINING ALLOWANCE (# Plants)
***Calytrix simplex*. Subsp. Simplex**	2058	30 plants	41	0	41
***Gastrolobium* sp. Prostrate Boddington**	101,587	6,095	8,126	4,900	3,226
Hibbertia ambita	44,532	3,339	4,453	1135	3,318
Halgania corymbosa	79	1	1	0	1
VEGETATION COMPLEX	**BASELINE (ha)**	**TRIGGER (ha)**	**THRESHOLD (ha)**	**TOTAL CLEARED (ha)**	**REMAINING ALLOWANCE (ha)**
Williams veg complex	11.9	8.9	11.3	3.18	8.72
Michibin veg complex	332.5	249.4	315.9	58.55	251.55



LEGEND

- Town
- Primary Crusher
- Secondary Crusher
- Overland Conveyor

Development Envelopes [MS1237]

- BTC (Bauxite Transport Corridor)
- WMDE (Worsley Mining Development Envelope)
- PAA (Primary Assessment Area)

Timber Reserves

- MTR (Marradong Timber Reserve)
- QTR (Quindanning Timber Reserve)
- STR (Saddleback Timber Reserve)

Clearing July 25 to June 2026 Period

- Native Vegetation
- Rehab
- Plantation
- Cleared
- MS719 Pre 2025 Clearing

N

Projected: GDA2020 MGA Zone 50
Datum: GDA2020
0 5 Kilometres

SOUTH32 Worsley Alumina Pty Ltd

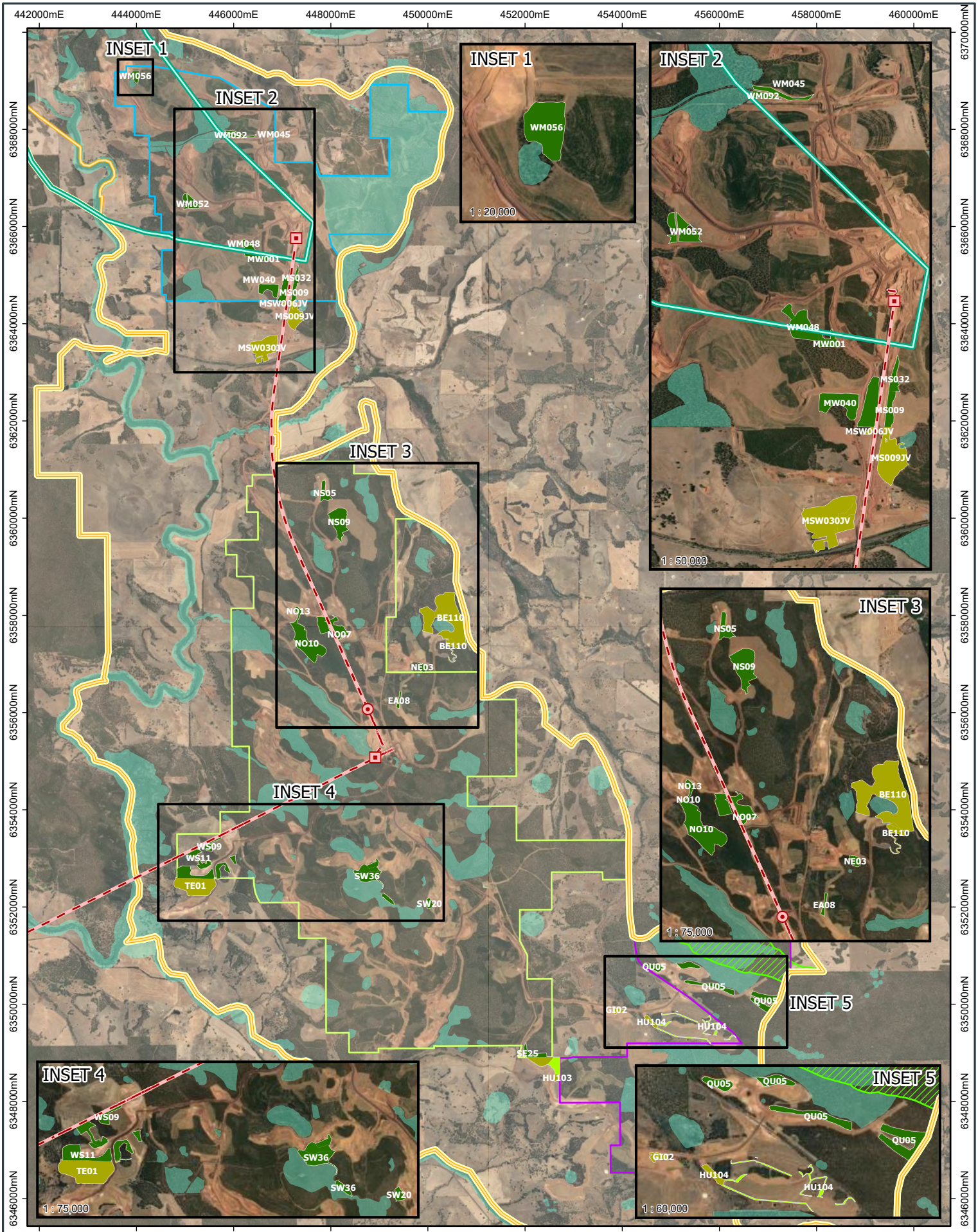
Areas of Disturbance (FY2026)

FIGURE 4-1

MS1237 Compliance Assessment Report FY26
EPBC 2019/8437 Annual Compliance Report FY26

Date: 24 September 2026 | Author: dlimm1

Path: C:\Users\dlimm1\South32\Worsley - ERD Development - Documents\GIS\Requests\0124_Worsley_ERD\FIGURES\CAR_2026\CAR_FY26_Fig4-1_AreasOfDisturbanceFY26_A4P.aprx



LEGEND

- Primary Crusher
- Secondary Crusher
- Overland Conveyor

Development Envelopes [MS1237]

- BTC (Bauxite Transport Corridor)
- WMDE (Worsley Mining Development Envelope)
- PAA (Primary Assessment Area)

MS1237 Ecological Linkages (EcoLs)

- MS1237 Ecological Linkages (EcoLs)

Timber Reserves

- MTR (Marradong Timber Reserve)
- QTR (Quindanning Timber Reserve)
- STR (Saddleback Timber Reserve)

Protected Areas [WAPL]

- Protected Areas [WAPL]

Areas of Rehabilitation FY26

- Rehab State Forest (173.3 ha)
- Rehab Private Bush (118.88 ha)
- Rehab Pasture (9.04 ha)

Projected: GDA2020 MGA Zone 50
Datum: GDA2020
0 2.5 Kilometres

N

SOUTH32 Worsley Alumina Pty Ltd

Areas of Rehabilitation (FY2026)

FIGURE 4-2

MS1237 Compliance Assessment Report FY26
EPBC 2019/8437 Annual Compliance Report FY26

Date: 24 September 2026 | Author: dlimm1

Path: C:\Users\dlimm1\South32\Worsley - ERD Development - Documents\GIS\Requests\0124_Worsley_ERD\FIGURES\CAR_2026\CAR_FY26_Fig4-2_RehabilitationFY26_A4P.aprx

4.6.2.2 Mining Tranche Clearing

Notification of commencement of each mining tranche is required to be provided to DCCEEW within five (5) business days in accordance with EPBC 2019/8437 condition 69. Notification of commencement of the action was provided to DCCEEW in accordance with condition 67 on 12 February 2025, and as this is the first mining tranche also, satisfies the requirement of EPBC 2019/8437 condition 69.

EPBC 2019/8437 Condition 3(a) limits clearing within Mining Tranche 1 to 1,338 ha. Since the approval was granted in February 2025, a total of 365.65 ha of native vegetation has been cleared. As presented in Table 4-7 the cumulative clearing extent remains below the approved limit for Mining Tranche 1.

4.6.3 Pre-clearance Surveys

Prior to clearing in the PAA, Worsley Alumina is required to undertake pre-clearance surveys to meet the requirements of MS1237 conditions B12-3 - B12-5. These conditions require surveys to be undertaken for forest disease (condition B12-3), old growth forest (condition B12-4), threatened and priority flora (condition B12-5(1)(a & b)), new and undescribed species (condition B12-5(1)(c)), threatened and priority ecological communities and vegetation type G4 (condition B12-5(1)(d)).

Pre-clearance surveys were conducted in accordance with the MS1237 conditions B12-3 to B12-5 and EPBC 2019/8437 conditions 4 and 5 to support clearing activities completed during the reporting period. Details for the pre-clearance surveys completed to date are included in the FVMP (V7.0) (available on the Worsley Alumina website: Worsley Alumina - Documents). A summary is also provided in Table 4-10.

Table 4-10 Summary of Pre-clearance Surveys

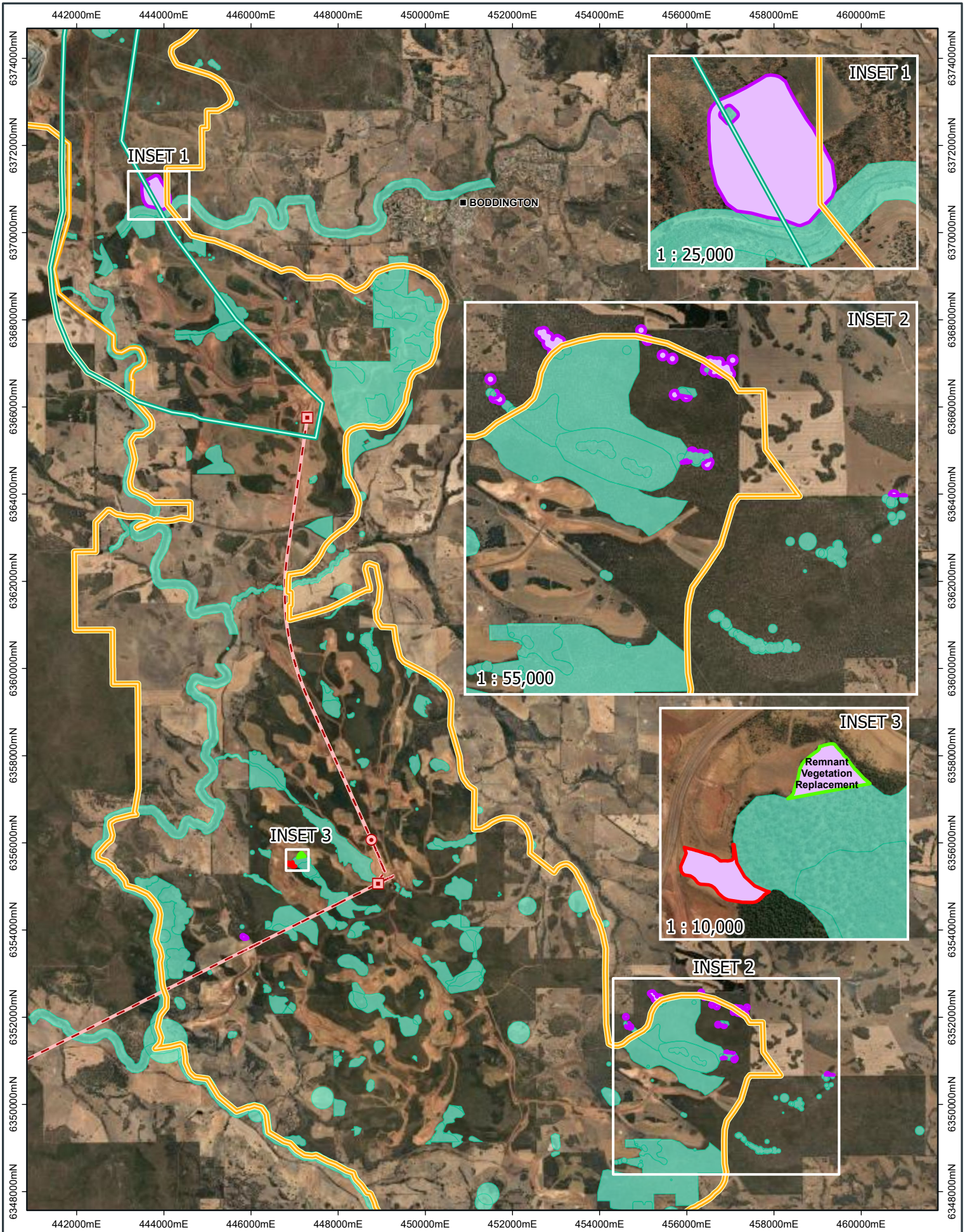
FACTOR	EVIDENCE	COMMENT
Forest Disease	FVMP	Forest disease surveys have been conducted by independent qualified dieback interpreters. These surveys covered areas cleared during the reporting period and clearing proposed during the coming reporting year.
Old Growth Forest	FVMP	No old growth forest was identified during pre-clearance surveys completed to support clearing operations completed within the reporting period or subsequent surveys during the reporting period.
Threatened & Priority Flora		
Orchids	FVMP	Surveys were conducted by Onshore Environmental – including independent botanists with demonstrated experience in orchid surveys in the bioregion, as required by condition B12-5 (2), during Spring 2025 to support clearing activities completed in the current reporting period. New Threatened flora locations were identified and Protected Areas were applied in accordance with the FVMP.
Priority and Threatened Flora	FVMP	Surveys were conducted by independent qualified botanists during Spring 2025. An additional threatened flora species was identified as part of these surveys (*Caladenia dorrienii*). Additional records of known Priority flora were also recorded.
Priority and Threatened vegetation	FVMP	Surveys were conducted by independent qualified botanists during Spring 2025. No additional areas of threatened or priority vegetation were identified as part of these surveys.

4.6.4 Protected Areas – Flora and Vegetation

No native vegetation disturbance occurred within Protected Areas, including ecological linkages and protected stream buffers, during the reporting period (MS1237 B2-1(5) and EPBC 2019/8437 condition 19).

Pre-clearance surveys conducted to support clearing activities in the reporting period resulted in creation of additional Protected Areas within the PAA totalling 21.8 ha (6.2 ha inside the PAA), for threatened flora (including *Caladenia hopperiana* and *Caladenia dorrienii*, as shown in Figure 4-3). These Protected Areas were established in accordance with the FVMP and EPBC 2019/8437 condition 7 and 8. Two *Loricobbia pauciflora* (previously *Pultenaea pauciflora* - Narrogin pea) plants were identified within the Mooradung Nature Reserve (outside the PAA). As these plants occur >5 km outside the action area no Protected Area was required to be established under EPBC 2019/8437 condition 9.

Prior to MS1237 being granted, it was identified that a small area included in the Revised Proposal dataset had inadvertently been cleared during 2024, representing 1.03 ha within a buffer to heath vegetation. This area was selected to be included in the Protected Areas during the review process undertaken during 2023 as part of the Revised Proposal but at that time the area had already been harvested but not yet cleared. The harvesting activity which was undertaken prior to 2023 and subsequent clearing in 2024 was not identified until after the submission of the Revised Proposal Response to Submissions, by which time the area had already been included within the proposed Protected Areas forming part of Figure 4 of MS1237. To correct for this error in spatial data interpretation, an alternative area (1.01 ha) with similar environmental values located <200 m away was identified to replace the area (Figure 4-3). This location extends an existing Protected Area reducing potential impacts associated with edge effects and fragmentation.



LEGEND

- Town
- Primary Crusher
- Secondary Crusher
- Overland Conveyor

Development Envelopes [MS1237]

- BTC (Bauxite Transport Corridor)
- WMDE (Worsley Mining Development Envelope)
- PAA (Primary Assessment Area)

- Protected Area Added Within Reporting Period
- Protected Area Replacement (Added)
- Protected Area Replaced (Removed)
- Existing Protected Areas

Projected: GDA2020 MGA Zone 50
Datum: GDA2020

0 4 Kilometres

N

SOUTH32 Worsley Alumina Pty Ltd

Protected Areas Added During the Reporting Period

FIGURE 4-3

MS1237 Compliance Assessment Report FY26
EPBC 2019/8437 Annual Compliance Report FY26

Date: 29 September 2026 | Author: dlimm1

Path: C:\Users\dlimm1\South32\Worsley - ERD Development - Documents\GIS\Requests\0124_Worsley_ERD\FIGURES\CAR_2026\CAR_FY26_Fig4-3_ProtectedAreasAdded_A4P.aprx

4.7 TERRESTRIAL FAUNA

4.7.1 Conservation Significant Fauna Environmental Management Plan

MS1237 condition B13-7 requires Worsley Alumina to prepare and submit a Conservation Significant Fauna Environmental Management Plan (CSFMP Version 3.0) and to not commence ground disturbing activities within the proposal area until the CEO of DWER has confirmed in writing that the management plan meets the requirements of the relevant conditions of as otherwise agreed by the CEO (MS1236 condition C1-1). Confirmation that the CSFMP met the requirements of the relevant conditions was received from DWER on 11 Feb 2025. A copy of this letter was provided as an appendix in the 2025 CAR. In accordance with MS1237 condition C2-6, Version 3.0 of the CSFMP was made publicly available on the Worsley Alumina website (Worsley Alumina - Documents).

No changes, including no minor revisions, were made to the CSFMP during the reporting period in accordance with MS1237 conditions C2-3 – C2-5.

Table 4-11 and Table 4-12 provide Worsley Alumina's performance against the CSFMP's outcome-based provisions and objective based provisions, respectively. No triggers or thresholds were breached during the reporting period as outlined in Table 4-11 and management based objective provisions were implemented in accordance with the CSFMP (Table 4-12).

Table 4-11 Performance Against CSFMP Outcome Based Provisions

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
1. Disturb no more than the allowable disturbance for the environmental values as described in Condition B13-1(1).	Verified spatial data	75%	95%		
	QTR (276ha)	207ha	262ha		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-13, Appendix 2: GIS Information	Y
	Woylie Habitat (2033ha)	1525	1931		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-13, Appendix 2: GIS Information	Y
	Numbat habitat (4324ha)	3243	4108		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-13, Appendix 2: GIS Information	Y
	Black Cockatoo foraging habitat (4533ha)	3400	4306		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-13, Appendix 2: GIS Information	Y
	Black Cockatoo PBTs with evidence of use (Rank 1 or Rank 2) (24)	18	23		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-15, Table 4-13	Y
	Chuditch habitat (4459ha)	3344	4236		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-13, Appendix 2: GIS Information	Y
	Western Ringtail Possum habitat (135ha)	101	128		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-13, Appendix 2: GIS Information	Y
	Quokka habitat (135ha)	101	128		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-13, Appendix 2: GIS Information	Y
	Red-tailed Phascogale habitat (245ha)	184	233		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-13, Appendix 2: GIS Information	Y
2. Ensure ongoing viability of the Woylie (*Bettongia penicillata ogilbyi)* population recorded at the Hotham North mine region shown in CSFMP Figure 3 is not lost due to the proposal (B13-1(2)).	Woylie presence at control sites (pending outcomes of baseline monitoring and associated recommendations)	Woylie not observed within expected Ecological Linkages (as identified during baseline monitoring) during Vertebrate Fauna – Protected Areas and Ecological Linkages monitoring program	Woylie not observed within expected Ecological Linkages (as identified during baseline monitoring) during two consecutive Vertebrate Fauna – Protected Areas and Ecological Linkages monitoring programs.		
		No trigger exceedances recorded	No threshold exceedances recorded	Baseline monitoring for the Hotham North Woylie populations is still progressing, and fauna monitoring programs in accordance with the CSFMP will be progressed in accordance with the schedule. This outcome-based provision will be amended as required following completion of the baseline surveys.	Y
3. Ensure ongoing viability of any numbat (Myrmecobius fasciatus) population(s) recorded at the Hotham North and Marradong Timber Reserve mine regions shown in Figure 8 is not lost due to the proposal (B13-1(3)).	Numbat presence (or verified signs of presence)	Trigger Criteria 1 Verified evidence of Numbat identified within a proposed clearing area. OR Trigger Criteria 2 [2] To be determined following completion of baseline surveys (if required).	To be determined following completion of baseline surveys (if required).[1]		

[2] Trigger and Threshold criteria for Numbat will be reviewed and finalised upon completion of baseline monitoring in MTR and Hotham North mining regions in accordance with condition B13-3 of MS1237

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
		No trigger exceedances recorded	No threshold exceedances recorded	To date no viable numbat population has been identified within Marradong Timber Reserve or the Hotham North Mining Regions. Section 4.7.4.1	Y
4. Ensure no disturbance to: a. the buffers identified by condition B13-4(2) for trees being used, or that have evidence of use, by black cockatoos for breeding (excluding the up to 24 trees referred to in condition B13-1(1)(e)) (B13-1(4)(a)). b. peregrine falcon (Falco peregrinus) nests including a 30 m buffer unless the tree has not been used over two consecutive breeding seasons (B13-1(4)(b)).	Verified spatial data Proximity of disturbance to potential breeding trees with evidence of use or peregrine falcon nests	Disturbance within 10 m of a defined protection buffer for a PBT with evidence of use or a known active Peregrine falcon nest is identified within a Clearing Plan.	Disturbance occurs within the defined Protection buffer for a PBT with evidence of use (see CSFMP section 6.5.1.1) or a known active Peregrine falcon nest.		
		No trigger exceedances recorded	No threshold exceedances recorded	Previously identified Peregrin falcon nest within the Quindanning Timber Reserve has not been utilised for more than two consecutive years. Figure 4-4, Appendix 2: GIS Information (record of clearing)	Y
c. known records of significant short-range endemic fauna where those fauna are only known from the PAA unless they are known to occur within the protected areas or ecological linkages shown in Figure 4 and Figure 5 respectively (B13-1(4)(c)).	Verified Spatial data Proximity of disturbance to Protected Areas for significant SRE only known from within the PAA	Disturbance within 10 m of a defined protection buffer for significant short-range endemic fauna where those fauna are only known from the PAA identified within a Clearing Plan.	Disturbance occurs within the defined Protection buffer for significant short-range endemic fauna where those fauna are only known from the PAA		
		No trigger exceedances recorded.	No threshold exceedances recorded	Figure 4-4, Appendix 2: GIS Information (record of clearing)	Y

Table 4-12 Performance Against CSFMP Objective Based Provisions

OBJECTIVE BASED PROVISION	PERFORMANCE INDICATOR / STANDARD	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
1) Minimise the risk of physical injury or mortality from construction activities on native fauna		• Minimise clearing associated with construction. • Apply pre-clearance and management measures as detailed in CSFMP section 6.5.5. • Speed limits and road rules are applied for all mine site activities (maximum 60km/h). • All conservation significant fauna incidents must be recorded in G360. • Review and investigate fauna incidents to determine requirement for additional control measures. • As outlined in the site induction all unusual fauna sightings must be reported to the site Environment Team (including conservation significant fauna, feral animals or sightings of unknown species). • Site inductions include awareness and reporting requirements for native fauna. • Establish Protected Areas in accordance with the CSFMP section 6.5.1. • Implement Ecological Linkages to facilitate movement of fauna through the landscape in accordance with CSFMP section 6.5.3. • Fauna crossings constructed for all linear barriers that fully intersect Ecological Linkages (i.e., roads and haul roads) in accordance with CSMP section 6.5.4. • Implement fauna crossings in accordance with section CSFMP 6.5.4. • Clearing areas undergo staged disturbance activities allowing natural dispersal of mobile fauna. • Where possible, clearing is completed toward a vegetated boundary. However, establishment of a protective firebreak may be required prior to clearing to minimise the risk of wildfire. • Suitably qualified and experienced fauna spotter will be on site during harvesting and clearing activities. • Reduced speed limits applied for Ecological linkages (40 km/hr) where alternative fauna crossings (i.e. underpass / overpass) are not possible due to landscape constraints to engineering solutions. • Signage within Ecological linkages and on roads adjacent to clearing activities to increase driver awareness of potential fauna interactions. • Relevant fauna management measures included in Mine Site Drivers Permit training package. • Fauna egress points for all dams. • S40 BC Act Authorisation required for areas where “take” of threatened species is possible.	• No conservation significant fauna incidents associated with mining activities were recorded during the reporting period. • Pre-clearance surveys have been undertaken in accordance with CSFMP section 6.5.5. • Speed limits (max 60km/h) continue to be applied for all mine site activities. No habitat features are yet to be identified for further speed restrictions. • Ad-hoc fauna sightings were recorded by the Environment Team, see Table 4-14. • Protected Areas for PBTs have been defined in accordance with the CSFMP. • Fauna spotters are present onsite during all clearing activities. • S40 authorisations under the BC Act have been acquired where required for native vegetation clearing and ongoing mining operations.	Y

OBJECTIVE BASED PROVISION	PERFORMANCE INDICATOR / STANDARD	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
2) Minimise the risk of behavioural changes and health impacts from construction activities on native fauna.	Continued presence of vertebrate fauna species as identified from baseline in respective mining regions, for the duration of the proposal	• Implement dust controls on haul roads and within fixed plant to ensure compliance with Part V of the EP Act. • Manage noise emissions to comply with *Environmental Protection (Noise) Regulations 1997*. • Ensure lighting plant is directed to areas of work, and as far as practicable light is not directed to areas of uncleared native vegetation and no unnecessary artificial light is used outside of operational areas. • Clearing activities should occur only during daylight to ensure lighting plant is not required to be used when clearing new areas. • Progressive rehabilitation as outlined in CSFMP section 6.5.9. • Monitoring of vertebrate fauna and SRE in accordance with CSFMP section 7. • Monitoring and reporting against Biodiversity Indicators in accordance with Conditions 14-1 and 14-2 of MS1237. • Controlled burning must only occur in areas of State Forest following consultation with DBCA in accordance with the DBCA/Worsley Working Arrangements – planning for burning. • Relocation of fauna from clearing areas by fauna handlers (as required) with fauna monitored at point of release to assess health and mobility (i.e. individual moves away from the disturbance area and seeks shelter).	Vertebrate fauna monitoring programs continued in accordance with the CSFMP. Management measures aimed at minimising impacts to fauna and fauna habitat continued to be implemented including: • Dust control on haul roads by water truck and application of Dusticide in high traffic areas. • Noise management including monitoring and responding to alarms from remote noise monitors (Noise Sentinel) to ensure ongoing compliance with the *Environmental Protection (Noise) Regulations 1997*. • Progressive rehabilitation (see Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information, Figure 4-2 and the ARP). WAPL has not conducted prescribed burns within the PAA during the reporting period. Fauna spotters with animal handling training were present onsite during all clearing and harvesting activities. No fauna required relocation during the reporting period. All clearing was completed during daylight hours as required by condition 25 of EPBC 2019/8437.	Y
3) Maintain ecological linkages to allow movement of fauna across the landscape	Ecological linkages, including installed crossings, are being utilised by native fauna for the duration of the proposal.	• Implement review and approval process to ensure clearing within Ecological linkages is limited to infrastructure, roads and access and will not include ore mining activities. • Implement controls and review processes to ensure clearing within Ecological linkages is limited in accordance with Condition B2-1(5). • Monitor Ecological linkages for fauna use (including feral animals). • Prioritise rehabilitation to enhance Ecological Linkages.	No clearing within Ecological Linkages occurred within the reporting period. Only one ecological linkage occurs adjacent to current mining activities (Quindanning). During the reporting period, no rehabilitation occurred immediately adjacent to the Quindanning ecological linkage. However, rehabilitation commenced within the vicinity of the ecological linkage. Fauna monitoring programs to support assessment of performance against this Management Target are currently under development for implementation in FY27. Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information, Figure 4-2 and the ARP.	Y
4) Monitor and manage feral animals to minimise risk of predation of conservation significant fauna within the PAA.	Population assessment shows no increase in presence of feral animals within the mining regions for the life of the proposal.	• Site induction requires feral animal sightings to be reported to Site Environment team. • Complete targeted trapping for feral cats following sightings. • Conduct targeted feral animal baiting within Ecological Linkages (see CSFMP sections 6.5.3 and 6.5.7). • Continue aerial 1080 baiting targeting foxes and cats across JV land and State Forest areas within the WMDE and JV Land surrounding the RLA (CSFMP section 6.5.7). • All bins storing putrescible waste to have secure lids. • Investigate alternative survey methodologies for assessment of abundance of feral animals within the PAA. • Implement feral animal control strategies on the Offset properties in accordance with the LOEMP. • Ensure fauna crossings contain refuges for native fauna (CSFMP section 6.5.4). • Investigate and trial emerging technologies for management of feral animals.	A feral animal monitoring program was developed during the reporting period and will be implemented in FY27. No cats were reported to the Environment department during the reporting period (Table 4-14). Although cats were identified on cameras established for pre-clearance requirements. Control of cats and foxes on Offset properties, including use of Felixers continued as discussed in section 4.12.1. 1080 baiting for foxes and cats continued during the reporting period including aerial baiting undertaken by DBCA on JV lands. No fauna crossings have been established to date (no disturbance in Ecological Linkages).	Y
5) Minimise fragmentation within and surrounding the PAA through targeted rehabilitation and ecological restoration	A progressive reduction in fragmentation within the PAA is observed from the 2028 assessment period for the duration of the project.	• Limit disturbance within Protected Areas and Ecological Linkages in accordance with conditions B2-1 (4) to B2-1 (6) of MS1237. • Minimise clearing through Mine Planning processes. • Ensure compliance with clearing limits for fauna habitat in accordance with condition B13-1 (1). • Review and identify areas of rehabilitation that are adjacent to Protected Areas and Ecological Linkages and can be assigned as Protected Rehabilitation. • 10 Year Mine Planning process to review areas available for rehabilitation and prioritise those that are adjacent to Protected Areas and Ecological Linkages. • Ecological restoration completed in accordance with Local Offset Environmental Management Plan. • Conduct 5 yearly assessment of fragmentation. Provide outcomes and recommendations to Mine Planning and Principal - Biodiversity Offsets to support planning for rehabilitation and restoration activities.	Management Target and associated monitoring program is not yet applicable (commences 2028). Clearing during the reporting period was conducted in accordance with condition B2-1 (4) to B2-1 (6) and B13-1(1). This included 0.01 ha of clearing within a Protected Area for the purpose of maintaining existing infrastructure (see section 4.6.2). Clearing continues to be minimised to the extent reasonably practicable through internal review and sign off processes. Ten separate areas of rehabilitation completed in FY2026 totalling 131.6 ha were adjacent to Protected Areas showing prioritisation of these areas for rehabilitation. Restoration activities for Offset Properties in the reporting period are discussed in section 4.12.1. Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information, Figure 4-2	Y
6) Rehabilitation provides suitable habitat for conservation significant fauna	Presence of relevant conservation significant fauna is observed within expected timeframes (see LOEMP) in rehabilitation (compared with relevant forest control plots).	• Construction of fauna habitats included in State Forest rehabilitation. • Local provenance seed used in rehabilitation in accordance with the Rehabilitation Prescription. • Hollow forming tree species included in seed mix and verified to be present in rehabilitation. • Retention and replacement of woody debris in State Forest, including, where practicable, hollow logs in rehabilitation. • Research program implemented to support adaptive management of rehabilitation. • Develop and implement a vertebrate fauna rehabilitation monitoring program for forest rehabilitation in Marradong, Hotham North and Quindanning. • Support research in determining alternative hollows/designs for habitat that can be incorporated into rehabilitation (ongoing). • Continue to investigate options to enhance coarse woody debris incorporation into rehabilitation/ecological restoration to enhance termite activity.	Rehabilitation was completed in accordance with the management actions (refer Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information, Figure 4-2). Rehabilitation research is ongoing (refer Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information and the full ARP). Vertebrate fauna monitoring programs are currently under review in consultation with DBCA and DWER to allow adaptive management in methodology and to incorporate monitoring across the entire PAA. Two seasons of monitoring for the rehabilitation fauna monitoring program for Saddleback Timber Reserve were completed in 2025 (June and October). Across these surveys 6 species of conservation significance were recorded.	Y

	OBJECTIVE BASED PROVISION	PERFORMANCE INDICATOR / STANDARD	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
7)	Minimise impacts on Conservation significant fauna associated with Worsley's operational activities.	Continued presence of Black Cockatoo Species within the Mining Regions for the duration of the proposal	• Black Cockatoo habitat disturbance to be restricted in accordance with condition B13-1 (1) (refer CSFMP Table 11 for outcome-based provision). • Conduct pre-clearance surveys and apply required management measures in accordance with CSFMP Table 9. • All PBTs with evidence of use must be demarcated in the field and accurate GIS information collected. • Mapping layers (GIS and Vulcan) for PBTs to be maintained including assigned Rank and protection status to support mine planning and design processes. • Biodiversity offsets to be implemented in accordance with CSFMP section 6.5.10. • Monitor utilisation of Rank 1 and Rank 2 PBTs by Black Cockatoo species.	Black cockatoos continue to be observed within the PAA (Table 4-14, Appendix 4: Flora and Fauna Reports) Disturbance to Black Cockatoo habitat remained within allowable limits as outlined in condition B13-1 (1) (see Table 4-13 and Table 4-15). Pre-clearance surveys were conducted in accordance with the CSFMP (refer Appendix 4: Flora and Fauna Reports). All PBTs inspected during the reporting period had key data collected on tablets using ArcGIS Online. This included GIS data. Rank 1 and 2 trees were clearly demarcated in the field and avoided in accordance with the requirements of condition 13-1 and 13-4 of MS1237. Monitoring of utilisation of known Rank 1 and Rank 2 PBTs by Black Cockatoos commenced in FY2026 (see section 4.7.3).	Y
		Continued presence of Woylie within the Hotham North mining region for the life of the proposal	• Implement and maintain ecological linkages through the known Woylie habitat (Figure 6). • Woylie habitat disturbance to be restricted in accordance with condition B13-1 (1) (refer CSFMP Table 11 for outcome-based provision). • Investigate less invasive survey methodology options for Woylie population assessments (e.g. eDNA). Amend survey methodologies in accordance with adaptive management following engagement with relevant authorities as improvements are identified. • Apply feral predator control mechanisms within Hotham North mining area.	Woylie were observed in the Hotham North Mining Region in November 2024 (refer Appendix 4: Flora and Fauna Reports). Disturbance to Woylie habitat remained within allowable limits as outlined in condition B13-1 (1) (see Table 4-13). 1080 baiting has continued to be applied in the Hotham North Mining Region by Newmont Boddington Gold. Targeted Woylie monitoring program commenced in the Hotham North Mining Region.	Y
		If a viable population of Numbat is found, continued presence of numbat in Hotham North/Marradong Timber Reserve mining regions for the life of the proposal	• Numbat habitat disturbance to be restricted in accordance with condition B13-1 (1) (refer CSFMP Table 11 for outcome-based provision). • Apply feral predator control mechanisms within Hotham North mining area.	Baseline targeted surveys have not identified any Numbats within the Hotham North Mining Region or Marradong Timber Reserve and there is no evidence of a population being present. Disturbance to Numbat habitat remained within allowable limits as outlined in condition B13-1 (1) (see Table 4-13). 1080 baiting has continued to be applied in the Hotham North Mining Region by Newmont Boddington Gold.	Y
		Continued presence of Chuditch within the Hotham North & CBME mining regions for the life of the proposal	• Chuditch habitat disturbance to be restricted in accordance with condition B13-1 (1) (refer CSFMP Table 11 for outcome-based provision).	Chuditch were observed in the Hotham North Mining Region in November 2024 (refer Appendix 4: Flora and Fauna Reports). Disturbance to Chuditch habitat remained within allowable limits as outlined in condition B13-1 (1) (see Table 4-13).	Y
		Continued presence of Red-Tailed Phascogale within the eastern QTR mining region for the duration of the proposal	• Red-tailed Phascogale habitat disturbance to be restricted in accordance with condition B13-1 (1) (refer CSFMP Table 11 for outcome-based provision). • Maintain Protected Areas for Red Tailed Phascogale (CSFMP Figure 7). • Maintain ecological linkages through the known Red-tailed Phascogale habitat in QTR (CSFMP Figure 7).	Disturbance to Red-tailed Phascogale habitat remained within allowable limits as outlined in condition B13-1 (see Table 4-13). Protected Areas and Ecological Linkages within QTR were maintained during the reporting period. No clearing commenced within the ecological linkages during the reporting period (see Figure 4-3).	Y
		Continued presence of the Western Ringtail Possum & Quokka within the CBME for the duration of the proposal	• Western Ringtail Possum and Quokka habitat disturbance to be restricted in accordance with condition B13-1 (1) (refer CSFMP Table 11 for outcome-based provision). • Apply feral predator control mechanisms on JV Land surrounding the RLA.	No disturbance occurred within the CBME during the reporting period. No fauna monitoring was completed in the CBME during the reporting period. 1080 baiting within the RLA and on surrounding JV Land continued during the reporting period.	Y
		Continued presence of Priority fauna & other significant fauna as observed within baseline monitoring and forest control plots within the Mining Regions for the duration of the proposal	• Speed limits and road rules are applied for all mine site activities (maximum 60km/h). • All conservation significant fauna incidents must be recorded in G360.	Vertebrate fauna monitoring programs are currently under review in consultation with DBCA and DWER to allow adaptive management in methodology and to incorporate monitoring across the entire PAA. Two seasons of monitoring for the rehabilitation fauna monitoring program for Saddleback Timber Reserve were completed in 2025 (June and October). Across these surveys 6 species of conservation significance were recorded (refer Appendix 4: Flora and Fauna Reports). Significant fauna reports from the workforce continue to be recorded (Table 4-14). Black cockatoo death reported to DBCA (7/1/2026), also captured in (Table 4-14). G360 hazard event raised as bird had been deceased for some time. G360 event raised for an injured Baudin's black cockatoo found on Gastaldo Rd that was taken to a local vet for assessment. The bird was later transferred to Perth Zoo for care.	Y
8)	Define baseline abundance and viability of any populations of Numbat within Hotham North and MTR mining areas	Baseline assessment(s) to determine the presence of any viable Numbat population within the Hotham North and Marradong Timber Reserve Mining Regions completed by March 2026	• Undertake surveys over the Hotham North and Marradong Timber Reserve mine region in accordance with Condition B13-3 (2) (as per Figure 3 to identify the presence and abundance of Numbat. • Qualified external consultants assess the viability of any identified Numbat population. • Review outcome-based provision for Numbat in Table 11 with qualified external consultants to ensure metrics are appropriate to any identified population. Modify outcome through adaptive management processes as required in consultation with appropriate regulators.	Baseline targeted surveys for Numbat in the Hotham North Mining Region and Marradong Timber Reserve have not identified a viable population of Numbat (refer Section 4.7.4.1 and Appendix 4: Flora and Fauna Reports).	Y
9)	Define baseline abundance and viability of any populations of Woylie within the Hotham North mining area.	Baseline Woylie Population within the Hotham North Mining area defined by March 2026.	• Undertake surveys over the Hotham North mine region (see Figure 6) in accordance with Condition B13-1(2) to determine the baseline Woylie population metrics. • Assess the viability of any identified Woylie population. • Utilise baseline monitoring results and recommendations to review and update outcome-based provisions in CSFMP Table 11, as required, to address the ongoing viability of the Woylie population utilising the Hotham North mining area.	Baseline targeted surveys for Woylie in the Hotham North Mining Region commenced in November 2024 (refer Section 4.7.4.1 and Appendix 4: Flora and Fauna Reports). The population was identified as being viable. Baseline monitoring continued in FY26 with the deployment of unbaited camera traps. This monitoring program will continue into FY27. Updates to the CSFMP will be made as required following completion of the baseline surveys.	Y

4.7.2 Environmental Outcomes / Disturbance

Table 4-13 outlines the total disturbance undertaken during the reporting period against the limits provided in MS1237 conditions B13-1(1)(a)-(d) and (f)-(i), and B2-1(5). An assessment against the relevant triggers and thresholds as outlined in the CSFMP are also provided. As shown in Table 4-13 no limits, triggers or thresholds were exceeded.

Figure 4-4 shows disturbance undertaken during the reporting period in relation to MS1237 condition B13-1(4) which requires no disturbance to:

- Buffers for trees being used or having evidence of use by black cockatoos for breeding;
- Peregrine falcon nests inclusive of a 30m buffer unless the tree has not been used over two consecutive breeding seasons;
- Known records of SRE's where they are only known from the PAA (unless they are known to occur in the protected areas or ecological linkages); and
- The offset values listed in table 1 of condition 15-5.

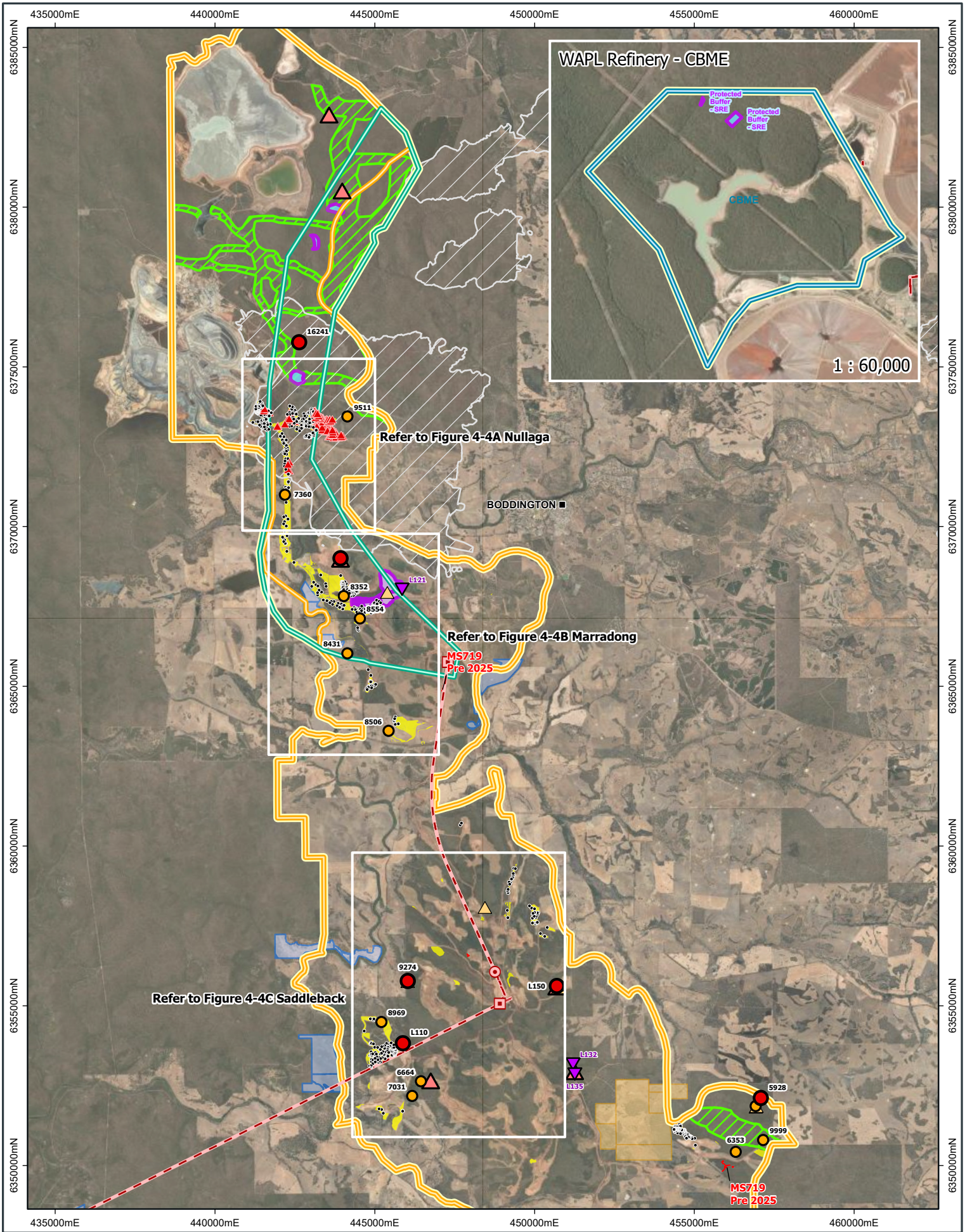
Worsley Alumina encourages its staff and contractors to report fauna sightings so they can be recorded and referenced when planning fauna monitoring programs. The information gathered during the reporting period is outlined in Table 4-14. During the reporting period one threatened fauna death was observed and reported to DBCA via the fauna data report. This related to a Forest Red-tailed Black Cockatoo that was found deceased under a powerline in January 2026.

Table 4-13 Record of Disturbance to Fauna Habitat (1 July 2025 – 30 June 2026)

FACTOR	LIMIT (ha)	TRIGGER (ha)	THRESHOLD (ha)	DISTURBED DURING REPORTING PERIOD (ha)	REMAINING ALLOWANCE
QTR	276	207	262	19.35	256.65
Woylie Habitat	2,033	1,525	1,931	114.21	1918.49
Woylie Habitat (Figure 7)	1,898	1,424	1,803	114.21	1783.49
Numbat Habitat	4,324	3,243	4,108	350.21	3934.49
Black Cockatoo Foraging Habitat	4,533	3,400	4,306	361.27	4132.43
Chuditch Foraging Habitat	4,459	3,344	4,236	350.21	4069.49
Western Ringtail Possum Habitat	135	101	128	0	135
Quokka Habitat	135	101	128	0	135
Red Tailed Phascogale Habitat	245	184	233	18.73	226.27
Ecological Linkages – Native Veg	146.5	n/a	n/a	0	146.5
High Quality Wandoo	295	n/a	n/a	6.09	288.79

Table 4-14 Record of Reported Fauna Sightings (1 July 2025 – 30 June 2026)

SPECIES	DATE	LOCATION
Echidna	10/07/2025	Saddleback Access Road
Echidna	22/07/2025	MW052 – two echidnas removed from wood pile prior to clearing
Brush-tailed Phascogale	18/08/2025	WE01 Crossing haul Road
Baudin's Black Cockatoo	5/08/2025	Gastaldo Road (Injured)
Fox	15/10/2025	WM001 – Camera
Forest Red-tailed Black Cockatoo	07/01/2026	BBM Maintenance Powerline (deceased, reported to DBCA)
Tawny frogmouth	27/01/2026	Saddleback - Holmes
Fox	29/01/2026	Saddleback 400A. Kit.
Feral Pigs	10/02/2026	Nullaga (≥20).
Dugite	03/03/2026	Marradong Offices
Feral Pigs	10/03/2026	Nullaga – Pig Trap Cameras
Fox	12/03/2026	Farmer property - Numbat area - Cameras
Feral Pigs	08/04/2026	Nullaga – 3 caught in traps
Feral Pigs	13/05/2026	Nullaga – (≥16) Pig Trap Cameras
Echidna	26/05/2026	Haul Road south of Fletchers gate (roadkill)
Echidna	31/05/2026	STR Access road intersection
Cat	15/10/2025	MNW070 Section 40 Cameras
Rabbit	15/10/2025	MNW070 Section 40 Cameras



LEGEND

- Town
- Primary Crusher
- Secondary Crusher
- Overland Conveyor

Habitat Trees [WAPL]

- Confirmed Rank 1
- Confirmed Rank 2
- Artificial
- BURNT
- CLEARED
- Protected Unconfirmed Rank 1
- Protected Unconfirmed Rank 2

Clearing within Reporting Period:

- Clearing undertaken within FY2026
- MS719 Pre 2025 Clearing

Development Envelopes [MS1237]

- BTC (Bauxite Transport Corridor)
- CBME (Contingency Bauxite Mining Envelope)
- WMDE (Worsley Mining Development Envelope)
- MS1237 Ecological Linkages (EcoLs)

Protected Areas [WAPL]

- Protected SRE

Fire Incidents Areas [WAPL]

- Boddington/NBG Bushire Boundary Dec'25 (DFES-064)

MS1237 Local Offsets

- Local Offsets 1
- Local Offset 2 - Gibbs Property

Projected: GDA2020 MGA Zone 50
Datum: GDA2020
0 4 Kilometres

N

SOUTH32 Worsley Alumina Pty Ltd

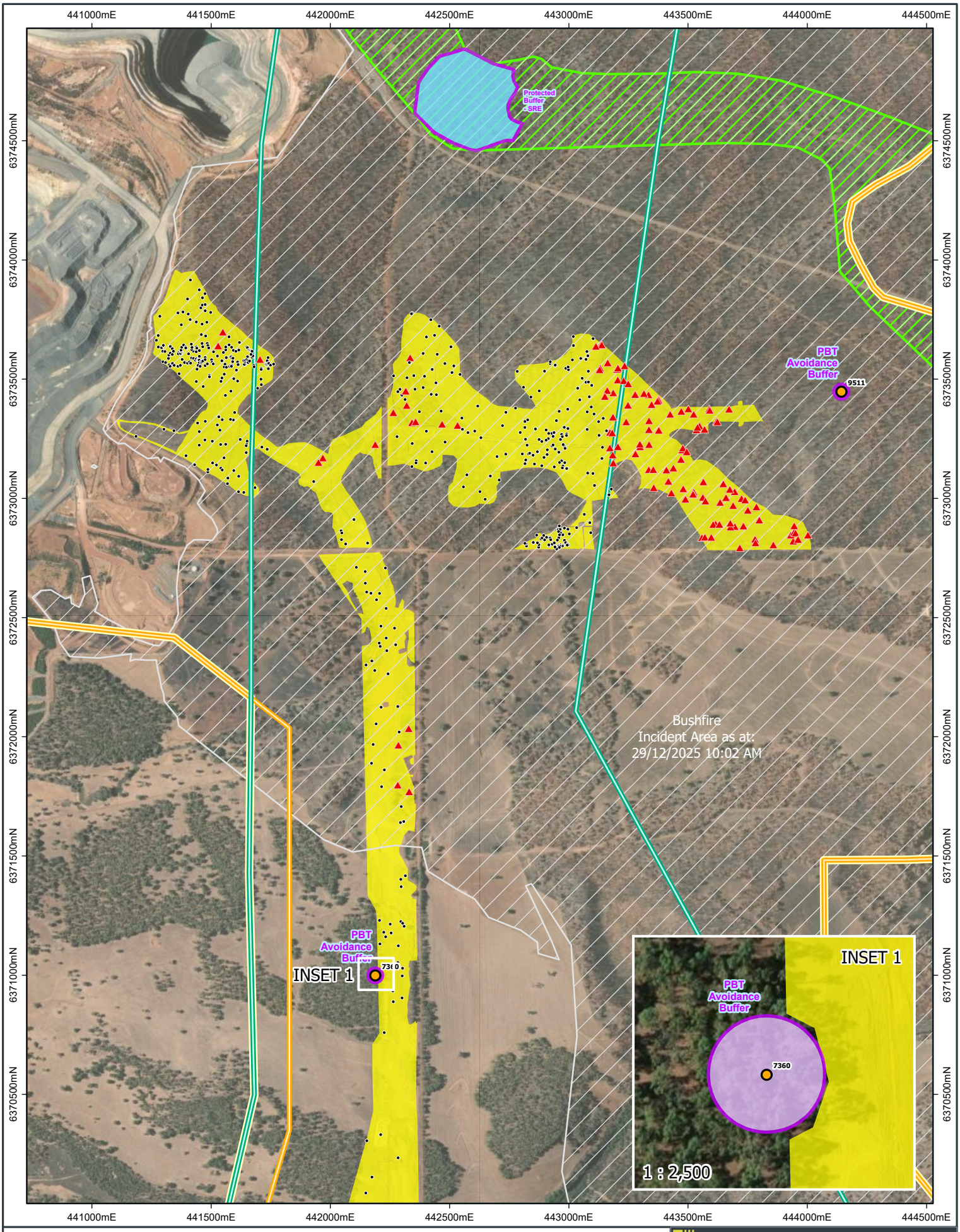
Clearing Activity Proximity to Protected Areas and SRE Locations

FIGURE 4-4

MS1237 Compliance Assessment Report FY26
EPBC 2019/8437 Annual Compliance Report FY26

Date: 30 September 2026 | Author: dlimm1

Path: C:\Users\dlimm1\South32\Worsley - ERD Development - Documents\GIS\Requests\0124_Worsley_ERD\FIGURES\CAR_2026\CAR_FY26_Fig4-4_ClearingActivity_ProtectedAreas_SRE_A4P.aprx



LEGEND

Habitat Trees [WAPL]
- Confirmed Rank 2
- BURNT
- CLEARED

Clearing within Reporting Period:
- Clearing undertaken within FY2026

Development Envelopes [MS1237]
- BTC (Bauxite Transport Corridor)
- WMDE (Worsley Mining Development Envelope)
- PAA (Primary Assessment Area)

- MS1237 Ecological Linkages (EcoLs)

Protected Areas [WAPL]
- Protected SRE
- PBT Avoidance Buffer

Fire Incidents Areas [WAPL]
- Boddington/NBG Bushire Boundary Dec'25 (DFES-064)

Projected: GDA2020 MGA Zone 50
Datum: GDA2020

0 0.4 Kilometres

N

SOUTH32 Worsley Alumina Pty Ltd

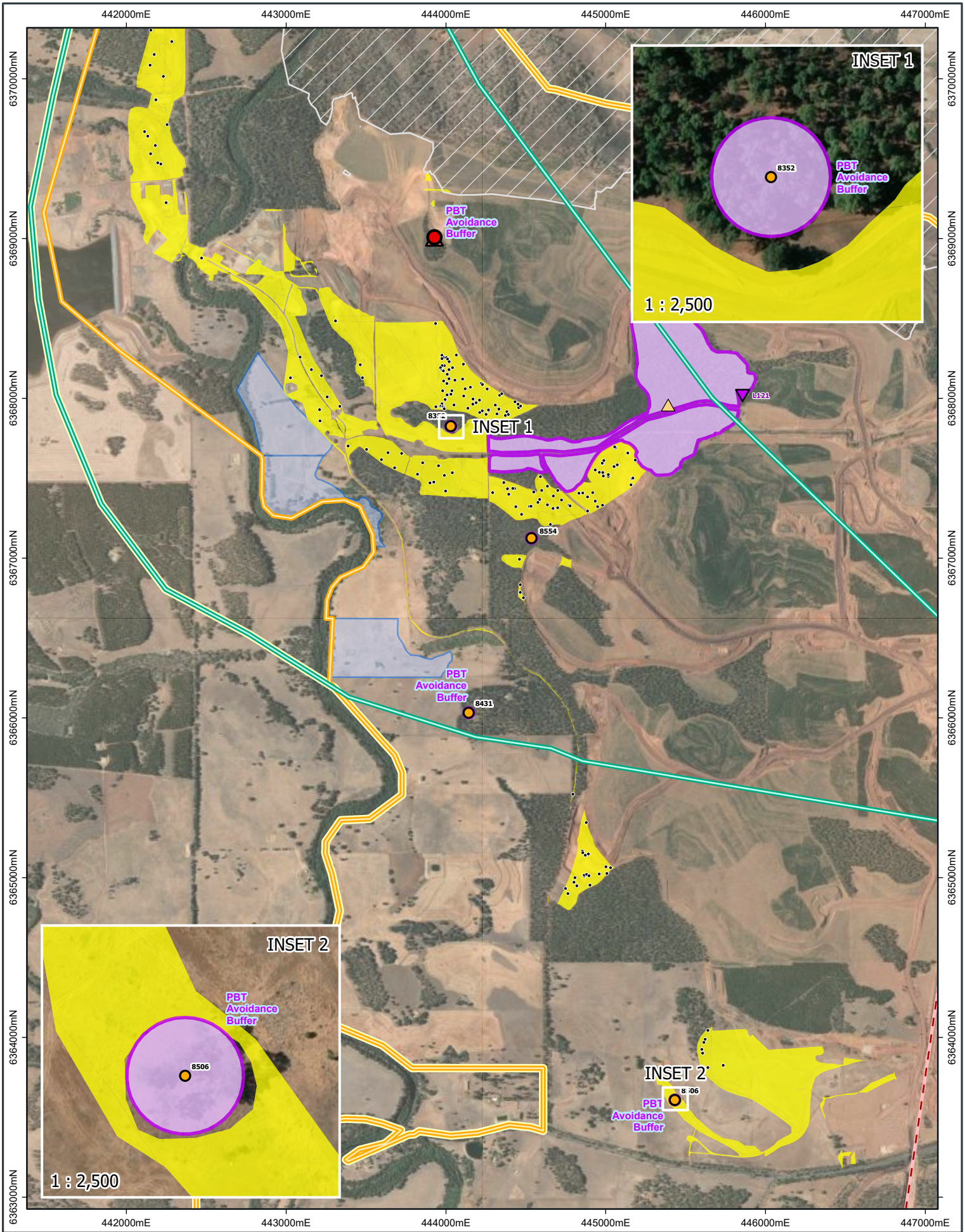
Clearing Activity Proximity to Protected Areas and SRE Locations - Nullaga

FIGURE 4-4 A

MS1237 Compliance Assessment Report FY26
EPBC 2019/8437 Annual Compliance Report FY26

Date: 30 September 2026 | Author: dlimm1

Path: C:\Users\dlimm1\South32\Worsley - ERD Development - Documents\GIS\Requests\0124_Worsley_ERD\FIGURES\CAR_2026\CAR_FY26_Fig4-4_ClearingActivity_ProtectedAreas_SRE_A4P.aprx



LEGEND

Habitat Trees [WAPL]
- Confirmed Rank 1
- Confirmed Rank 2
- CLEARED
- Protected Unconfirmed Rank 1
- Protected Unconfirmed Rank 2

Clearing within Reporting Period:
- Clearing undertaken within FY2026

Development Envelopes [MS1237]
- BTC (Bauxite Transport Corridor)
- WMDE (Worsley Mining Development Envelope)
- PAA (Primary Assessment Area)

Protected Areas [WAPL]
- PBT Avoidance Buffer

Fire Incidents Areas [WAPL]
- Boddington/NBG Bushire Boundary Dec'25 (DFES-064)

MS1237 Local Offsets
- Local Offsets 1

Projected: GDA2020 MGA Zone 50
Datum: GDA2020

0 1.2 Kilometres

N

SOUTH32 Worsley Alumina Pty Ltd

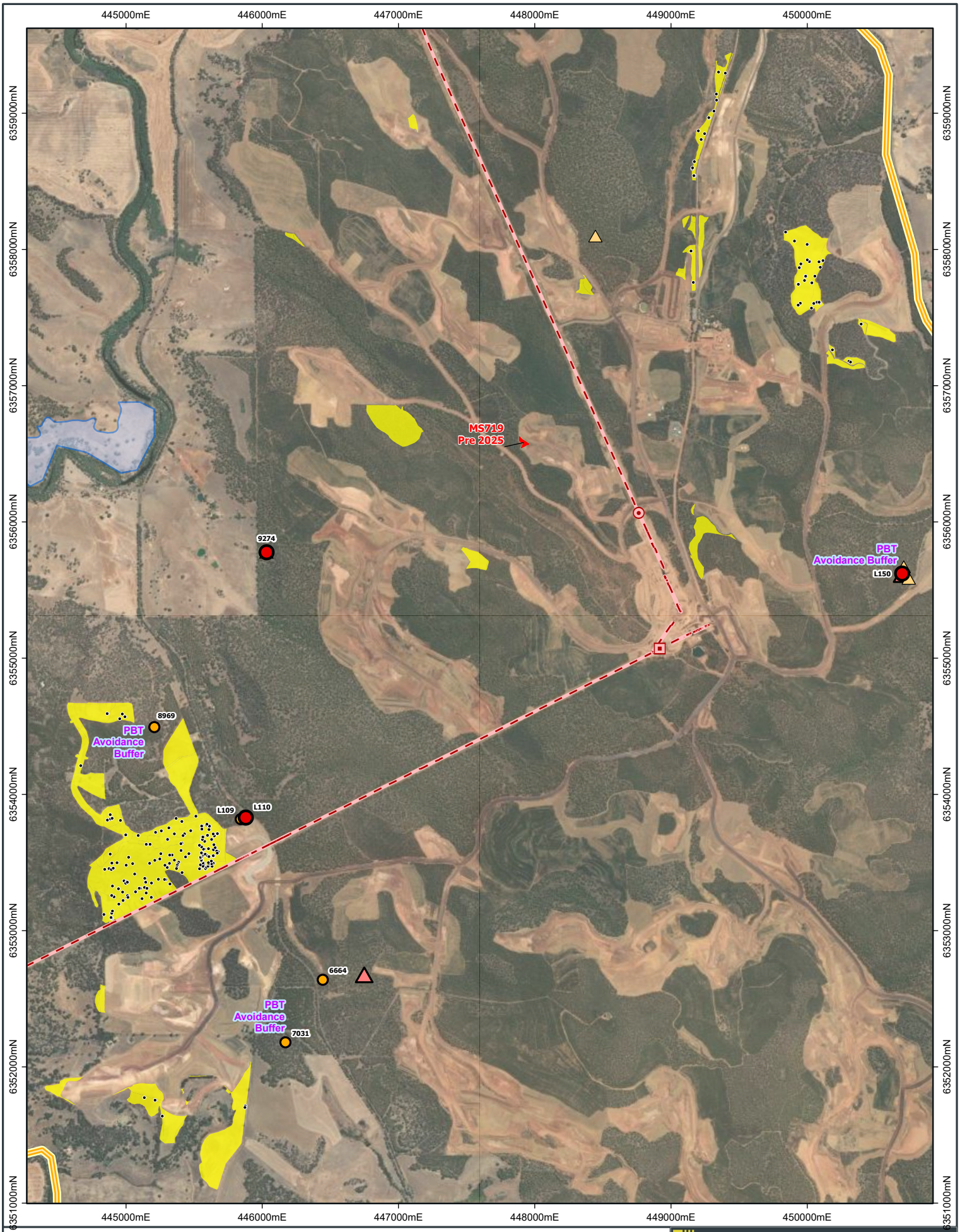
Clearing Activity Proximity to Protected Areas and SRE Locations - Marradong

FIGURE 4-4 B

MS1237 Compliance Assessment Report FY25
EPBC 2019/8437 Annual Compliance Report FY25

Date: 30 September 2026 | Author: dlimm1

Path: C:\Users\dlimm1\South32\Worsley - ERD Development - Documents\GIS\Requests\0124_Worsley_ERD\FIGURES\CAR_2026\CAR_FY26_Fig4-4_ClearingActivity_ProtectedAreas_SRE_A4P.aprx



LEGEND

- Primary Crusher
- Secondary Crusher

Habitat Trees [WAPL]
- Confirmed Rank 1
- Confirmed Rank 2
- CLEARED
- Protected Unconfirmed Rank 1
- Protected Unconfirmed Rank 2

Clearing within Reporting Period:
- Clearing undertaken within FY2026
- MS719 Pre 2025 Clearing

Development Envelopes [MS1237]
- WMDE (Worsley Mining Development Envelope)
- PAA (Primary Assessment Area)

Protected Areas [WAPL]
- PBT Avoidance Buffer

MS1237 Local Offsets
- Local Offsets 1

Projected: GDA2020 MGA Zone 50
Datum: GDA2020

0 1.4 Kilometres

N

SOUTH32 Worsley Alumina Pty Ltd

Clearing Activity Proximity to Protected Areas and SRE Locations - Saddleback

FIGURE 4-4 C

MS1237 Compliance Assessment Report FY26
EPBC 2019/8437 Annual Compliance Report FY26

Date: 30 September 2026 | Author: dlimm1

Path: C:\Users\dlimm1\South32\Worsley - ERD Development - Documents\GIS\Requests\0124_Worsley_ERD\FIGURES\CAR_2026\CAR_FY26_Fig4-4_ClearingActivity_ProtectedAreas_SRE_A4P.aprx

4.7.3 Black Cockatoo Potential Breeding Trees

4.7.3.1 Preclearance Survey

During the review period one Potential Breeding Tree (PBT) with evidence of use (Rank 1 or Rank 2) as identified on Figure 8 of MS1237, or subsequently identified through pre-clearance surveys, was disturbed (Table 4-15) (MS1237 condition B13-1(1)(e) and EPBC 2019/8437 conditions 11 & 13). The tree was identified as a rank two potential breeding tree which was within the clearing required for critical haul road infrastructure, that had been previously realigned to ensure avoidance of a confirmed Rank 1 tree. This disturbance was completed following the submission of written notice to the CEO (of DWER) in accordance with MS1237 condition B13-1(1)(e). Worsley Alumina received no advice from the CEO that the proposed clearing was not authorised in accordance with condition B13-1(1)(e)(iv).

Table 4-15 Black Cockatoo Potential Breeding Trees – Trees Removed & Artificial Hollows Installed

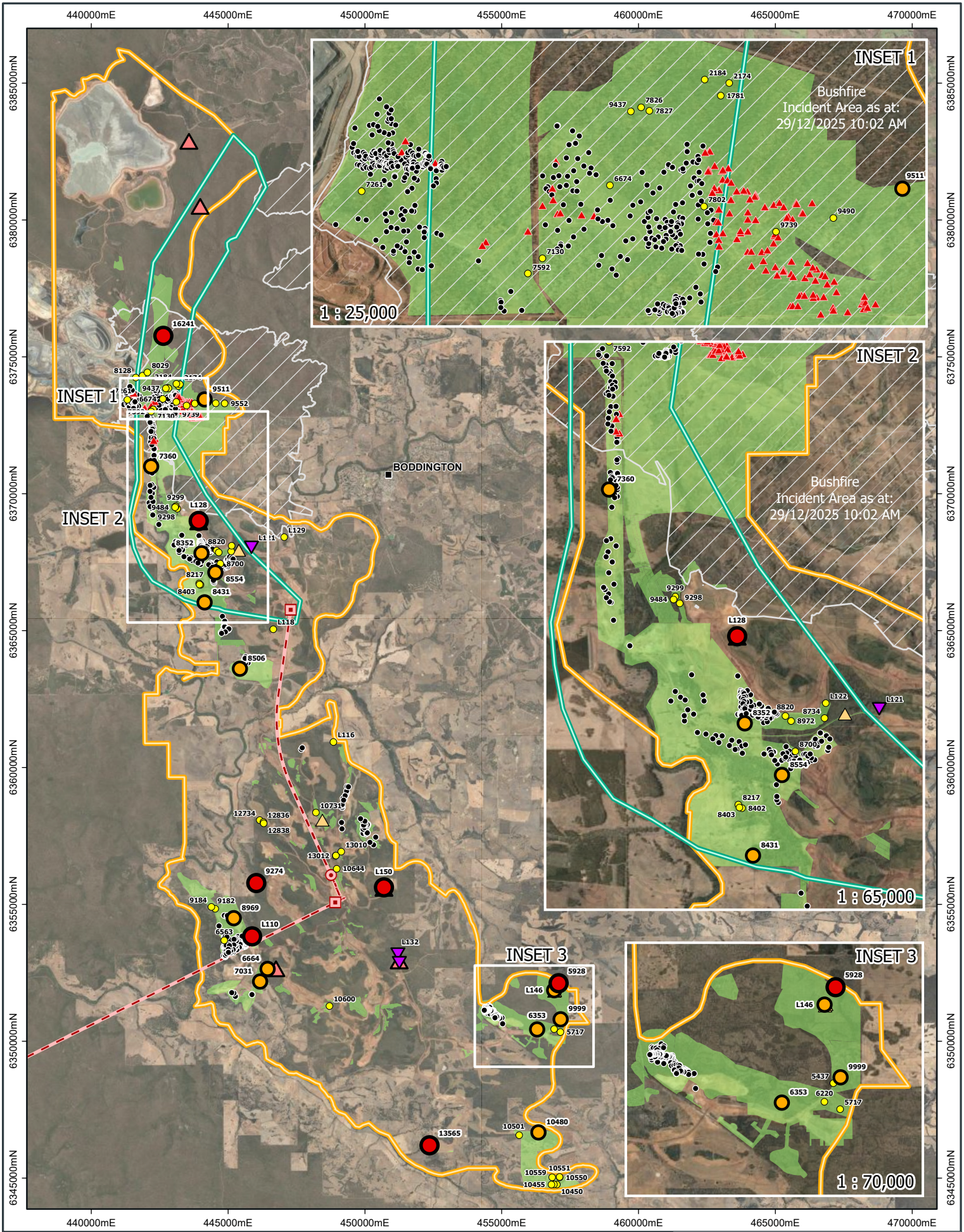
FACTOR	LIMIT	TRIGGER	THRESHOLD	TOTAL DURING REPORTING PERIOD
Trees Removed	24	18	23	1
Artificial Hollows Installed	72	54	69	54

All PBTs with suitable hollows were inspected within 7 days prior to clearing in accordance with MS1237 condition B13-4 and EPBC 2019/8437 condition 10. As required by MS1237 condition B13-5 and EPBC 2019/8437 condition 14 and condition 42, a summary report documenting the methodology and findings of inspections, buffer allocation in accordance with MS1237 condition B13-4(2) and avoidance in accordance with MS1237 condition B13-4(3) and EPBC 2019/8437 condition 12 is provided in Appendix 5: Black Cockatoo Hollows – Methodology and Findings. The report will be made publicly available as an appendix to this CAR in accordance with MS1237 condition B13-5 and EPBC 2019/8437 condition 14. In accordance with the CSFMP, each tree is assigned a rank (Rank 1-5), and protection is provided to Rank 1 and 2 trees, with Rank 3 trees being inspected for change in status at least 7 days prior to clearing but are not protected if there is no evidence of use.

Figure 4-5 shows the Rank 1-3 PBTs identified within the PAA to date through pre-clearance surveys, including Rank 3 PBTs which have been cleared after inspection. The figure also shows the areas surveyed in accordance with the CSFMP during and prior to the reporting period.

4.7.3.1 Known Breeding Trees

Monitoring of Rank 1 and Rank 2 PBTs commenced during the 2025 breeding season (from late July – January for Carnaby's Black Cockatoo and October – February for Forest Red-tailed Black Cockatoo) in accordance with the requirements of condition 15 of EPBC 2019/8437 and the CSFMP. As part of the monitoring program 29 of the 36 known Rank 1 and 2 PBTs were monitored. No new evidence of breeding was identified for trees monitored during the reporting period. Seven trees were not monitored, with access to some trees restricted due to active mining activities or private property access constraints. One tree was also inadvertently omitted during survey planning. A summary of the monitoring data is provided in Appendix 5: Black Cockatoo Hollows – Methodology and Findings. As required by condition 15 of EPBC 2019/8437 the monitoring results will be published as part of this CAR.



LEGEND

- Town
- Primary Crusher
- Secondary Crusher
- Overland Conveyor

Development Envelopes [MS1237]
- BTC (Bauxite Transport Corridor)
- WMDE (Worsley Mining Development Envelope)

Fire Incidents Areas [WAPL]
- Boddington/NBG Bushire Boundary Dec'25 (DFES-064)

Fauna Pre-clearance Surveyed Areas
- Completed

Habitat Trees [WAPL]
- Confirmed Rank 1
- Confirmed Rank 2
- Confirmed Rank 3
- Protected Unconfirmed Rank 1
- Protected Unconfirmed Rank 2
- Artificial
- BURNT
- CLEARED

N

Projected: GDA2020 MGA Zone 50
Datum: GDA2020

0 4 km

SOUTH32 Worsley Alumina Pty Ltd

Verified Rank 1-3 PBTs Identified within the PAA to date and Area Surveyed in accordance with the CSFMP

FIGURE **4-5**

MS1237 Compliance Assessment Report FY26
EPBC 2019/8437 Annual Compliance Report FY26

Date: 30 September 2026 | Author: dlimm1

Path: C:\Users\dlimm1\South32\Worsley - ERD Development - Documents\GIS\Requests\0124_Worsley_ERD\FIGURES\CAR_2026\CAR_FY26_Fig4-5_VerifiedPBTs_PAA_CSFMP_A4P.aprx

4.7.4 Targeted Surveys / Ecological Surveys

Worsley Alumina has defined ongoing fauna monitoring programs within the CSFMP. Most of these programs are currently being developed or reviewed in consultation with independent ecologists. A summary of each program is provided below.

4.7.4.1 Woylie & Numbat Surveys

In accordance with MS1237 conditions B13-1(2) and B13-1(3), and EPBC 2019/8437 conditions 22 and 23, Worsley Alumina must ensure the ongoing viability of the population of Woylie in Hotham North and of any population of Numbat recorded in Hotham North and Marradong Timber Reserve mining regions (Figure 11 of MS1237). MS1237 condition B13-3 (1) and (2) and EPBC 2019/8437 condition 17 require the undertaking of surveys for both the Woylie and Numbat within 12 months of the date of MS1237 (or within 12 months of the date of EPBC 2019/8437 in respect of condition 17). Two initial baseline surveys were undertaken: one for Hotham North (Phoenix 2025) and one for Marradong (Biologic 2025), which were provided in the FY2025 CAR. Findings from these initial baseline surveys were used to directly inform and refine the long-term monitoring design, supporting ongoing assessments of compliance with conditions B13-1(2) and B13-1(3).

During the reporting period (May 2026), a targeted Woylie monitoring program comprising an unbaited camera trap array was established across accessible portions of the Hotham North Mining Area. The objective of this program is to continuously monitor Woylie presence and site utilisation across Hotham North. The initial year of monitoring establishes baseline site-use metrics, against which subsequent annual monitoring results will be evaluated to demonstrate ongoing compliance with conditions B13-1(2) and B13-1(3).

4.7.4.2 Pre-clearance Surveys

Pre-clearance surveys for fauna were completed for all disturbance areas during the reporting period. These surveys were conducted in accordance with the endorsed CSFMP. Pre-clearance surveys include identification and ranking of PBTs, identification of other habitat features, and opportunistic recording of any evidence of conservation significant fauna (refer Appendix 4: Flora and Fauna Reports). Pre-clearance surveys also include checks for Malleefowl mounds, as required under EPBC 2019/8437 condition 16. The survey areas are shown in Figure 4-5.

MS1237 condition B13-6 and EPBC 2019/8437 conditions 20 and 21 require the presence of fauna handlers on site during clearing activities and ceasing operations in any case where threatened fauna are identified until the fauna handler considers the individual is no longer occurring in the area (through relocation or observation of movement from the clearing area). During the reporting period, no threatened mammals were observed during final pre-clearance surveys (completed within 7 days of disturbance activities commencing) or during clearing activities.

4.7.4.3 Short Range Endemic Fauna (SRE) Monitoring

In the CSFMP, Worsley Alumina committed to design and implement a SRE monitoring program for the mine rehabilitation areas within 12 months from the date of MS1237. During the reporting period an external consultant was engaged to develop an SRE invertebrate fauna monitoring program for the WMDE. To support the development of a robust, fit for purpose monitoring program the following work packages were proposed:

- Complete a desktop review of available literature to understand which SRE are likely to occur within the operational area and define monitoring program objectives (Complete).
- Conduct characterisation of habitats within the WMDE in the context of SRE invertebrate fauna distribution and develop an ecological niche/species distribution model for target SRE taxa (In progress).
- Test the ecological niche/species distribution model using field survey.
- Design a long-term monitoring plan that will assess the stability and viability of the Protected Areas, Ecological Linkages and rehabilitation for SRE invertebrate fauna using the significant variables of the model.

This detailed review and development process necessarily requires an extended period of time and as such the original commitment timeframe cannot be met. The SRE invertebrate fauna monitoring program design will be finalised in FY2027 and implemented thereafter.

SRE fauna known only to occur within the PAA are included in Protected Areas. There was no disturbance to the Protected Areas designated for SRE fauna, as required by MS1237 condition B13-1(4)(c), during the reporting period (see Figure 4-4).

4.7.4.4 Conservation Significant Fauna Monitoring

In accordance with the CSFMP, regular fauna monitoring is undertaken within and surrounding operational areas of the BBM. Worsley Alumina has committed to design a species presence confirmation survey program which will complement the existing vertebrate fauna monitoring programs and improve understanding of conservation significant fauna populations and their viability across the entire PAA to the address the requirements of MS1237 condition B13-7 and EPBC 2019/8437 condition 18.

During the reporting period a detailed review of the current vertebrate fauna monitoring programs across the PAA was completed by a qualified external consultant. Following this review, a revised monitoring program was developed and presented to DBCA and DWER for comment. Comments have been received and are currently being considered in the development of the final monitoring program. Following finalisation, an updated version of the CSFMP including the monitoring program will be submitted to DWER in accordance with condition C2 of MS1237 for approval. It is anticipated that the revised vertebrate fauna monitoring program will be implemented in FY2027.

4.8 INLAND WATERS

4.8.1 Water Management Plan

MS1237 condition B16-2 requires Worsley Alumina to update and submit the Water Management Plan (WMP version 6.0) and MS1237 condition C1-1 requires Worsley Alumina to not commence ground disturbing activities within the proposal area until the CEO of DWER has confirmed in writing that the WMP version 6.0 meets the requirements of the relevant conditions or as otherwise agreed by the CEO. Confirmation that the WMP met the requirements of the relevant conditions was received from DWER on 11 Feb 2025. A copy of this letter is available in the FY25 CAR. In accordance with MS1237 condition C2-6 and EPBC 2019/8437 condition 62, the WMP Version 6.0 was made publicly available on the Worsley Alumina website (Worsley Alumina – Documents).

No sensitive biodiversity data was required to be redacted in accordance with EPBC 2019/8437 condition 64 from any publicly available version of the WMP.

No changes, including minor revisions, were made to the WMP during the reporting period in accordance with MS1237 conditions C2-3 – C2-5 or EPBC 2019/8437 condition 58.

The WMP has been implemented including management measures to protect Carter's Freshwater Mussel as required under EPBC 2019/8437 conditions 28 and 29.

Table 4-16 and Table 4-17 provide Worsley Alumina's performance against the WMP's outcome-based provisions and objective based provisions, respectively. Some triggers and thresholds were reached during the reporting period as outlined in Table 4-16 and management based objective provisions were implemented in accordance with the WMP (Table 4-17). Details of reported non-compliances are available in section 5.1.

Table 4-16 Performance Against WMP Outcome Based Provisions

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
BBM					
Outcomes: 1. No disturbance or adverse impacts to *Caladenia hopperiana* or *Caladenia caesarea* subsp. Mooradung associated with surface water and / or groundwater changes. 2. No adverse impacts to conservation significant flora, fauna or ecological communities as a result of surface and/or groundwater changes attributable to the proposal. 3. No adverse impacts to native vegetation within or adjacent to the PAA as a result of surface and / or groundwater changes attributable to the proposal. 4. No adverse impacts to hydrological regimes and water quality of the Hotham River, Marradong Brook, Murray River, Williams River and Thirty-Four Mile Brook attributable to the proposal. 5. No adverse impacts to GDEs within or adjacent to the PAA as a result of surface and/or groundwater changes attributable to the proposal. 6. No adverse impacts to neighbouring groundwater users as a result of the proposal.					
Outcome 1	Depth to groundwater (mbgl)	Measured groundwater level for deep monitoring bores located in areas known to support Threatened flora rise above trigger levels outlined in WMP Table 12 8	Measured groundwater level for deep monitoring bores located in areas known to support Threatened flora rise above threshold levels outlined in WMP Table 12 8		
		No trigger exceedances recorded	No threshold exceedances recorded	Groundwater monitoring was completed in accordance with the WMP. No trigger or threshold exceedances were recorded for the Quindanning Timber Reserve bores. See summarised data in Table 4-24.	Y
Outcome 5	Depth to groundwater (mbgl)	Groundwater level rises above set trigger level for monitoring bore (see WMP Appendix A).	Groundwater level rises above set threshold level for monitoring bore (see WMP Appendix A)		
		Trigger exceedance recorded	No threshold exceedances recorded	Groundwater monitoring was completed in accordance with the WMP. Bore A04 exceeded the trigger. The Triennial Aquifer Review provides further details in regard to A04. The review concluded that the groundwater rise is a localised issue and no further aquifer impact is noted. No threshold exceedances were recorded. See summarised data in Table 4-24.	Y
Outcomes 5 & 6	Depth to groundwater (mbgl)	Groundwater level decline from minimum recorded baseline groundwater level exceeds trigger level (see WMP Appendix A).	Groundwater level decline from minimum recorded baseline groundwater level exceeds threshold level (see WMP Appendix A).		
		No trigger exceedances recorded	No threshold exceedances recorded	The GDE groundwater monitoring program was completed in accordance with the WMP with no trigger or threshold exceedances recorded for groundwater level decline (see Table 4-24).	Y
Outcomes 1,2, 3, 5 & 6	Groundwater Abstraction	Groundwater abstraction for a production bore exceeds sustainable yield for the month.	Groundwater abstraction for an aquifer exceeds sustainable yield for the financial year.		
		75 Trigger Level exceedances were recorded across 12 production bores during the reporting period	No threshold exceedances recorded	While the recommended yield for individual bores exceeded the triggers, the overall recommended yield for each borefield was not exceeded. Refer to Table 4-18. The Triennial Aquifer Review provides additional detail on the production bores. The review concluded that higher abstraction rates may result in short-term, localised impacts; however, no broader impact to the aquifer was identified. See Appendix 6: Water Monitoring Results and Reports	Y
Outcomes 1, 2, 3 & 5	Depth to groundwater (mbgl)	Groundwater levels do not demonstrate an observable recovery toward pre-mining levels within 5 years of rehabilitation (comparable to reference sites).	Groundwater levels of post mining catchments do not return to equivalent unmined catchment levels within 10 years following rehabilitation		
		Not assessed during the reporting period	Not assessed during the reporting period	This factor has not been incorporated into this year's Triennial Review as the reporting period included a portion of time pre-approval. This will be considered in the next Triennial Review (2026-2028).	NR
Outcomes 1,2, 3, 4, 5 & 6	Salinity (TDS / EC) pH	Groundwater quality measures show a concerning trend during annual data review or triennial aquifer reviews	Groundwater quality measures show a continued concerning trend following implementation of trigger level actions (allowing up to 2 years from implementation for changing conditions to be observed in groundwater).		
		No trigger exceedances recorded	No threshold exceedances recorded	The Triennial Aquifer Review did not identify any significant concerns with salinity or pH trends over the review period. See Appendix 6: Water Monitoring Results and Reports	Y
Outcomes 2, 3, 4 & 5	Surface water salinity (TDS / EC) Surface water turbidity / TSS	Downstream surface water quality measures show a change in water quality of more than 2 SDEV from the mean when compared to upstream monitoring locations	Surface water monitoring results over a 3 month period show consistent decreased water quality at downstream monitoring locations		
		Nine trigger exceedances were recorded	No threshold exceedances recorded	5 trigger level exceedances for turbidity were recorded for the Hotham River, 1 trigger level exceedance for turbidity was recorded for the Williams River and 3 TDS trigger level exceedances were recorded for Marradong Creek during the reporting period. Refer to section 4.8.2.2.4 for further detail.	Y
REFINERY					

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
1. No adverse impacts to hydrological regimes and water quality of the Augustus River attributable to the proposal.	Surface water salinity (EC)	Downstream surface water quality measures at Augustus River Gauging Station (ARGs) exceed set trigger levels as defined in WMP Appendix B	Exceedance of water quality criteria as outlined in Surface Water Licence		
		No trigger exceedances recorded	1 threshold exceedances recorded	One threshold exceedance was recorded during the reporting period. Refer to Annual Hydrology Report for further details Appendix 6: Water Monitoring Results and Reports	N
		Environmental water release to the Augustus River does not meet required flow rate of the Surface Water Licence for a given month	Environmental releases do not meet required flow rates for a period of 3 consecutive months		
		2 trigger exceedances recorded	No threshold exceedances recorded	The environmental water release is managed in accordance with the Surface Water Licence. Worsley Alumina was not able to comply with the release conditions during the reporting period and reported two trigger exceedances. Refer to Section 5.1 for further details.	Y
CARTERS FRESHWATER MUSSEL					
1. No direct impacts on Carters Freshwater Mussel (CFWM) due to Project-related activities		FWL CFWM Population: Clearing occurs without an authorised internal permit within the CBME but outside the 50 m separation area for the FWL.	Unauthorised clearing or disturbance within the 50 m separation area for the FWL		
		No trigger exceedances recorded	No threshold exceedances recorded	Worsley Alumina did not clear vegetation in the CBME during the reporting period.	Y
		Interim Trigger Criteria: Laboratory analysis for surface water quality shows results exceeding the trigger levels for any given analyte as detailed in WMP Table 5-5	Interim Threshold Criteria: Laboratory analysis for surface water quality shows results exceeding the threshold levels for any given analyte as detailed in WMP Table 5-5		
		Trigger exceedances recorded	Threshold exceedances recorded	Worsley Alumina has reported several exceedances of the threshold criteria during the reporting period. Further details regarding the reported non-compliances are provided in section 5.1.	N
		Individual mortality of CFWM recorded at FWL.	50% reduction in CFWM known population size recorded at FWL.		
		1 trigger exceedance recorded	No threshold exceedances recorded	One trigger exceedance was recorded during the reporting period for individual mortalities of 6 CFWM's identified during a survey. Monitoring Reports are available in Appendix 4: Flora and Fauna Reports.	Y
		Reduction in density of CFWM by >20% against baseline for Augustus River.	50% reduction in CFWM density (per m2) from baseline in Augustus River		
		No trigger exceedances recorded	No threshold exceedances recorded	Stantec conducted a survey during the reporting period and that the Augustus River CFWM population remains stable. Further details are available in Appendix 4: Flora and Fauna Reports.	Y
2. No disturbance to native vegetation within 30 m of the Augustus River bank attributable to the proposal		Augustus River CFWM Population: Clearing occurs without an authorised internal permit within the CBME but greater than 30 m from the Augustus River.	Unauthorised clearing or disturbance within 30 m of the Augustus River		
		No trigger exceedances recorded	No threshold exceedances recorded	No clearing has occurred within 30m of the Augustus River in the reporting period.	Y
3. Indirect impacts on CFWM due to Project-related activities are minimised		Isolated occurrence of overtopping of sediment trap(s) into FWL	Continued occurrence / or overtopping of multiple sediment traps into the FWL		
		No trigger exceedances recorded	No threshold exceedances recorded	No uncontrolled overflows from the onsite sediment traps occurred during the reporting period.	Y
		Interim Trigger Criteria: Laboratory analysis of sediment records Mercury (Hg) >0.15 mg/kg.	Interim Threshold Criteria: Laboratory analysis of sediment records Mercury (Hg) >1 mg/kg		
		No trigger exceedances recorded	No threshold exceedances recorded	All recorded Mercury levels were below defined trigger and threshold criteria.	Y
		Water levels recorded below 231m Australian Height Datum in FWL (AHD).	Water levels recorded below 225m AHD for a period of three months in FWL		
		8 trigger exceedances recorded	No threshold exceedances recorded	Water levels were maintained above 225 mAHD for the reporting period. FWL levels in July and from December to June recorded below the 231 mAHD trigger level.	Y

Table 4-17 Performance Against WMP Objective Based Provisions

OUTCOME / OBJECTIVE / COMMITMENT	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
BBM			
Minimise impacts on GDEs and SWDEs	• Conduct landscape assessment and baseline flora monitoring to identify potential locations of GDEs and SWDEs. • Conduct baseline groundwater and surface water monitoring and ground truthing to verify location and boundaries of GDEs and SWDEs within highest risk impact areas as identified through modelling and FDA (i.e. potential groundwater mounding risk or salinity hotspot identified). • Define Protected Areas and associated buffers in accordance with the FVMP. • Complete investigations into the sensitivities and tolerances of any conservation significant GDE vegetation structures vulnerable to groundwater mounding predictions. • Review and revise the water monitoring program to ensure the monitoring program intent is met for any newly identified GDEs and / or SWDEs.	Previously identified potential GDEs and SWDEs continued to be monitored during the reporting period as required by the WMP. Protected Areas have been defined in accordance with the FVMP including stream buffers. No further investigations into sensitivities and tolerances were carried out during the reporting period. A review of the GDE targeted monitoring program will be completed by an independent hydrogeologist upon finalisation and submission of the 10 Year Mine Plan to ensure suitability to assess potential impacts over the next 3-year operational period. The outcomes of this review will be incorporated into the WMP through submission of a minor amendment (as required).	Y
Minimise the risk of riverbank erosion and sedimentation	• Apply stream buffers in accordance with the FMP (CPCWA, 2023) and *Water Quality Protection Note 6*: (Department of Water, 2006). • Manage stream buffers in accordance with the FVMP. • Installation of water management infrastructure (sumps, drainage lines etc.) for all operational areas including haul roads in accordance with the Bauxite Mine Site Drainage Standard (01020749) and the Trunk Haul Road Design and Construction Specification (00112148). • Obtain Bed and Banks permits under the RIWI Act for any disturbance required to stream beds and banks. • Reshape disturbed areas to match surrounding contours during progressive rehabilitation to minimise impacts on surface water drainage patterns. • Develop a CEMP with appropriate controls for all construction works (to be endorsed by applicable government authorities).	The FVMP was implemented during the reporting period including the protection of stream buffers. Water management infrastructure was maintained in accordance with site procedures, and no stormwater discharge events were recorded during the reporting period. A Bed and Banks permit was obtained for all preliminary works completed within the Hotham River stream bed and banks. The CEMP was implemented during the reporting period.	Y
Minimise risk of Worsley's mining operations impacting on water quality (salinity).	• Minimise native vegetation disturbance and utilise existing cleared areas or areas that will be disturbed for future mining pits where possible. • Complete FDA for new mining areas to determine salinity risks. Additional salt storage investigations to be completed for high-risk areas. • Progressive rehabilitation of disturbed land. • No ground disturbance within PDWSAs until working arrangements are developed and agreed upon with regulators and the Water Corporation	Clearing of native vegetation continues to be minimised where possible. FDA Analysis has been completed for all mining areas within the PAA. Rehabilitation continues within the PAA (see Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information and Figure 4-2). No ground disturbance occurred within PDWSAs during the reporting period (Figure 4-1).	Y
Minimise risk of adverse impacts to hydrological regimes of the Hotham River, Marradong Brook, Murray River, Williams River and Thirty-Four Mile Brook attributable to the proposal	• Reshape disturbed areas to match surrounding contours during progressive rehabilitation to minimise impacts on surface water drainage patterns. • Crossing design must consider peak flow and potential flood ways. • Draft Completion Criteria for rehabilitation includes the requirement for ensuring the landform is integrated into the surrounding landscape including earthworks requirements for final pit design and that surface water management is designed to prevent prolonged surface or subsurface ponding. • The BBM Closure plan includes rehabilitation to the Hotham River Disturbance	The surface water monitoring program was undertaken during the reporting period (see section 4.8.2.2.4). Hotham River crossing design takes into consideration peak flow and potential flood ways. Progressive rehabilitation in accordance with draft completion criteria continued during the reporting period (see Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information).	Y
Minimise impacts on shallow aquifers	• Groundwater modelling for new mining areas to determine groundwater mounding risks. • Regular sustainable yield testing for all production bores in the shallow and the deep fractured rock aquifer (6 yearly). • Additional groundwater abstraction bores installed to supply water for mining operations will target the deep fractured rock aquifer.	Groundwater modelling was completed as part of the Environmental Impact Assessment process. Sustainable yield testing will be undertaken in FY27.	Y
Minimise groundwater abstraction	• Implement water efficiency measures to minimise water use for operational requirements. • Maintain abstraction to within designated abstraction limit / sustainable yield • Seek alternative sources of water (if required). • Regular (monthly) communication of groundwater abstraction rates against trigger levels / sustainable yields with relevant internal stakeholders	Chemical dust suppressants were applied in high use areas during the reporting period to minimise water use. All abstraction borefields remained within the annual recommended yield for the reporting period (see section 4.8.2.1).	Y
Minimise risk of contamination of groundwater and surface water from chemicals and hydrocarbons	• Avoid storage of chemicals and hydrocarbons in PDWSAs. • Chemicals, hydrocarbons and other environmentally hazardous materials stored and handled in accordance with Dangerous Goods Safety Act 2004 and associated regulations. • Construction of fuel containment infrastructure in accordance with Australian Standards. • All spills will be managed in accordance with Spill Management Procedures and SWIs. • Collection and treatment of potentially contaminated stormwater run-off from workshops and hydrocarbon storage areas. • Contaminated soils at BBM to be placed in lined hydrocarbon storage area until removal from site by a licensed contractor.	No storage of chemicals or hydrocarbons in PDWSAs occurred during the reporting period. All potentially contaminated stormwater run-off was managed in accordance with Part V licence requirements. Hydrocarbon storage area continued to operate during the reporting period.	Y
Minimise the risk of exposure of PASS	• Mining footprint to avoid low-lying topographical areas in the vicinity of rivers and creeks. • Acid Sulphate / Potentially Acid Sulphate soil monitoring as part of risk management in disturbance areas • A CEMP must be developed with an associated ASSMP to outline the identification, sampling and management of any PASS expected to be encountered for the construction of river crossings.	The CEMP was implemented during the reporting period to manage this risk.	Y
REFINERY			

OUTCOME / OBJECTIVE / COMMITMENT	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
Minimise risk of groundwater contamination from Refinery operations (including BRDAs)	• All BRDAs to have engineered design which includes clay liners and an underdrainage system • Grout curtains installed. • Concrete bunding to be maintained for all Refinery process areas and hydrocarbon storage areas. • Maintain water management structures to ensure continued separation of the Refinery Lease Area (RLA) into two catchment areas: clean (diverted to the FWL) and dirty (diverted to the RCL) • Maintain depression bores located between BRDAs and FWL with pumping capacity to divert contaminated underflow from BRDAs to the dirty catchment if required	Engineering and operational controls are in place to minimise the impact to groundwater. The Annual Hydrology Report provides further evidence Appendix 6: Water Monitoring Results and Reports	Y
Minimise impacts on surface water resources (i.e. FWL)	• BRDA engineered design • Pipe head dams • Install and maintain erosion control measures (silt / sediment traps, contouring etc) for catchment areas that feed the FWL • Installation of water management infrastructure (sumps, perimeter drains, drainage lines etc) for all operational areas including haul roads in accordance with the existing Site Drainage – BBM Standard (STA-402) and the Trunk Haul Road Design and Construction Specification (00112148). • Emergency Response Plans developed for Material Risks (i.e. Catastrophic failure of BRDA).	Engineering controls are in place to minimise the impact to surface water. Pipehead dams are managed and operated to collect decant water from the BRDAs. The FWL catchment contains erosion control measures including a number of silt traps. No haul roads are constructed at the Refinery. Emergency response plans are in place according to the requirements of the BRDA and RCL material risks.	Y
Minimise risk of contamination of surface water and/or groundwater from spills, chemicals or stormwater run-off	• Environmentally hazardous material releases will be managed in accordance with the Spill Management SWI (01027460). • Concrete bunding installed and maintained for all Refinery process areas and hydrocarbon storage areas • Maintain Dangerous Goods Licence. • Develop and maintain a Hazardous Substance Management Procedure. Training provided to applicable personnel in accordance with the Hazardous Substance Management Procedure (00114502). • Ensure spill kits are readily available in high risk areas. • Install and maintain Oil / water separators in maintenance areas.	Potentially hazardous materials releases are managed in accordance with the Spill Management SWI. Worsley Refinery has maintained its Dangerous Goods Licence (DGS009760). Concrete bunding is installed and maintained around the Refinery to contain potential hydrocarbon spills or leaks. Hazardous Substance Management procedure in place Spill kits are available and maintained around the Refinery. Oil/water separators are in place where required.	Y
Minimise risk of insufficient water supply	• Identify and implement water efficiency measures to minimise water use for operational requirements. • Ensure compliance with licence to take water from FWL. • Installation of a water supply pipeline to Wellington Dam. • Development of a long-term water supply strategy	The Refinery operates at 93% water efficiency and opportunities for improvement are investigated. Compliance to the Surface Water Licence is outlined the in Annual Hydrology Report, refer to Appendix 6: Water Monitoring Results and Reports. The pipeline from Wellington Dam to the Refinery is maintained and is utilised where necessary. The long-term water supply strategy is under review and development in order to secure a long-term climate resilient water supply.	Y
Minimise impacts on conservation significant fauna habitat	• Define Protected Areas and associated buffers in accordance with the FVMP. • Review and revise the water monitoring program to ensure the monitoring program intent is met for protection of vegetation that provides fauna habitat • Install monitoring bores at least two years prior to construction of BRDA4E or the commencement of contingency mining activities and collect two years of baseline monitoring then ongoing monitoring in accordance with the WMP	Protected Areas for known environmental values are in place for the CBME. If required, following pre-clearance surveys, further Protected Areas will be established in accordance with the FVMP. Clearing planning in the CBME will be undertaken in accordance with the FVMP, and based on values identified, the WMP will also be reviewed to ensure these values are protected in accordance with both plans. At this stage clearing for contingency mining activities or construction of BRDA4E is not planned.	Y
Minimise impacts on threatened aquatic fauna	• Apply stream buffers in accordance with the FMP (CPCWA, 2023). • Manage stream buffers in accordance with the FVMP. • Disturbance of the Freshwater Lake by contingency mining activities will be avoided by maintaining a separation distance of 50 m, from the high-water mark. • Develop a monitoring program for Carter's Freshwater Mussel to assess health and potential populations within the FWL and Augustus River. This monitoring program will include consideration of mercury and other elements that may impact the health of the species. • Alternative mitigations for the Carter's Freshwater Mussel, including translocation of individuals, may be considered, if required, and will be undertaken in consultation with relevant government authorities. • Training and awareness with staff of the impact and the management measures (including new management measures identified) to reduce the potential impact CFWM.	Ongoing monitoring has been undertaken to assess the health of the CFWM. Refer to Table 4-39 and Appendix 4: Flora and Fauna Reports for further information. The WMP criteria are interim and will be replaced by site-specific guideline values (SSGVs) once sufficient data are collected (24 months / 24 samples), Worsley will continue monitoring and apply adaptive management while investigations progress.	Y
PORT			
Minimise risk of contamination of surface water and / or groundwater from spills, chemicals or stormwater run-off Monitor known pre-existing hydrocarbon contamination to understand any changes	• Safe Work Instructions in place for chemical loading/unloading activities. • Dangerous Goods Licence in place. • Develop and maintain a Hazardous Substance Management Procedure. Training provided to applicable personnel in accordance with the Procedure (00114502). • Bunding and sumps in place. • Automated control and interlock systems installed. • Tank level control installed. • Ensure spill kits are readily available. • Registration of site under *Contaminated Sites Act 2003*	Work instructions are in place for the handling of chemicals at the Port. Potentially hazardous materials releases are managed in accordance with the Spill Management SWI. Several key personnel have completed HSERT – Spill Management Q50016177 training. Worsley Port has maintained its Dangerous Goods Licence (DGS009760). Concrete bunding is installed and maintained around the Port to contain spills or leaks. Water is tested prior to release to ensure a suitable pH level. Spill kits are available and maintained around the Port.	Y

4.8.2 BBM Water Reporting

4.8.2.1 Water Use

Monitoring of abstraction from the production bores/borefields was undertaken in accordance with the WMP. The total abstraction for each borefield is provided in Table 4-18 and monthly abstraction from each production bore is provided in Table 4-20. During the reporting period, total groundwater abstraction (including purchased groundwater) within the vicinity of mining areas was 795.7 ML, which was below the approved annual abstraction limit of 900 ML. In addition, abstraction from each borefield remained below its recommended annual yield, noting that a recommended yield has not yet been established for the Quindanning borefield. Several individual production bores exceeded their recommended monthly yields during the reporting period. A review identified that the primary contributing factor was limited operational visibility of bore-specific abstraction data and recommended yields, which restricted the ability to proactively adjust abstraction between bores. Data visibility, monitoring and reporting processes were improved during the reporting period to support more proactive management of groundwater abstraction.

Recommended yields are management triggers intended to support sustainable distribution of abstraction across the borefields and are not approval limits. As total abstraction remained below the approved annual limit, no borefield exceeded its recommended annual yield, and the review of surrounding groundwater monitoring bores described in Section 4.8.2.2 identified no concerning groundwater-level trends attributable to abstraction, the monthly exceedances are not considered to have resulted in an environmental impact or indirect impacts to flora or fauna habitat.

In addition to water abstracted from BBM production bores, Worsley Alumina purchased water from third-party suppliers for various operational uses across the Worsley Project during the reporting period. Table 4-18 and Table 4-19 summarise the volume of water purchased and distinguishes between water sourced from within the vicinity of mining operations and water sourced from outside this area. The water purchased within the vicinity of the mining area has been included in the overall total water use in accordance with table A1-1 of MS1237.

Table 4-18 Total Water Abstraction Plus Other Purchased Water (ML) FY2026 - BBM

LOCATION	RECOMMENDED YIELD (ML)	VOLUME (ML)
BOREFIELDS		
Tunnell Road	302	185.61
Karafil Road	265	139.98
Fawcett	102	84.42
South East	387	170.54
Marradong	394	117.41
Quindanning	TBA***	81.92
TOTAL ABSTRACTION		**779.88**
OTHER PURCHASED WATER		
Total Purchased Water - BBM		**59.33**
In the vicinity of mining areas		15.85
Not within the vicinity of mining area*		43.48*
TOTAL GROUND WATER USE - BBM	**900 (Limit)**	**795.70**

Trigger level exceedance

Threshold level exceedance

* Included for completeness; not counted toward the 900 ML limit

Table 4-19 Total Water Abstraction Plus Other Purchased Water (ML) FY2026 - Construction

LOCATION	RECOMMENDED YIELD (ML)	VOLUME (ML)
BOREFIELDS		
Within the WMDE	TBA	**81.66**
OTHER PURCHASED WATER		
Total Purchased Water - Construction		**29.48**
In the vicinity of mining areas		21.03
Not within the vicinity of mining area*		8.45*
TOTAL WATER USE - CONSTRUCTION	**580 (Limit)**	**102.69**

	Trigger level exceedance
	Threshold level exceedance
*	Included for completeness; not counted toward the 580 ML limit

Table 4-20 Monthly Production Bore Abstraction Compared to Recommended Yield

BOREFILED	BORE	RECOMMENDED MONTHLY YIELD (ML)**	MONTH											
			JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE
Fawcett	F12	2.4	0	2.46	0	0	0	0.18	0.71	0.36	0.14	0.24	0.02	0
	SE01/04	6.1	6.65	7.23	6.77	6.99	6.73	6.78	7.06	4.77	0	14.26	6.57	6.48
Karafil	K01	2.4	0	1.12	2.58	3.14	2.8	1.86	0.19	3.51	4.6	2.14	2.03	0.53
	K06	2.4	0	0.88	1.57	1.85	1.86	2.19	2.08	1.58	1.27	1.43	1.93	0.54
	K07	3.75	0.02	0.5	1.32	3.14	2.46	3	2.67	2.35	1.42	1.71	2.52	0.5
	K08	2.7	0.06	1.03	2.36	3.85	3.77	3.92	3.66	3.18	3.48	2.93	4.3	0.81
	K09	10.5	0	0.81	0.98	3.33	5.55	7.84	5.62	1.37	5.02	4.77	6.45	1.6
Marradong	M01/08	9	1.6	2.46	2.45	1.61	1.09	1.16	1.26	3.08	1.98	1.32	1.35	1.81
	M01/11	2.58	0	0	1.82	3.39	3.74	3.57	3.9	2.98	3.37	3.05	3.45	0.96
	M01/18	6.48	0	0	2.47	5.71	6.69	5.13	7.71	5.02	4.53	2.32	3.38	0.84
	M02/08	0.87	0	0.22	2.02	2.38	2.99	2.69	1.96	0.57	2.92	3.32	2.63	0.48
	M03/09	11.4	0	0	0	0	0	0	0	0	0	0	0	0
Quindanning	Q01/24		0.59	0.67	5.1	8.29	9.58	10.02	10.9	9.49	9.67	8.12	8.13	1.36
South East	E01/06	9	0.02	1.55	1.47	2.12	2.3	2.26	2.12	1.9	2.03	0.6	0	0
	SE01/01	2.7	0.04	2.89	2.42	3.06	3.73	4.2	5.01	4.95	6.24	1.69	0	0
	SE01/03	2.4	0	1.76	5.18	4.07	3.92	2.77	1.57	1.75	3.5	0.91	0.13	0
	SE02/03	4.5	0	0.14	2.96	3.59	3.31	3.36	2.93	2.16	2.13	1.91	1.61	1.14
	SE02/06	3	2.09	1.95	2.22	1.79	2.22	1.9	2.53	2.25	2.35	2.97	3.22	2.1
	SE03/01	2.4	0.13	4.72	5.71	2.65	1.89	1.29	0.35	0.75	1.78	2.22	2.93	1.62
Tunnell Road	T14	9	0.02	1.39	1.71	2.13	2.06	1.99	2.09	1.71	1.82	0.54	0	0
	T07A	1.8	1.8	2.33	2.23	2.36	0.22	0	2.35	2.01	1.92	1.71	1.72	1.43
	T08	3.45	0.86	1.09	1.19	1.56	1.66	1.23	1.21	0.73	1.4	1.21	1.14	0.54
	T10	4.5	3.04	2.63	1.72	2.47	2.78	3.07	2.64	2.16	2.53	2.35	2.45	3.02
	T12	4.5	11.12	6.4	6.89	7.72	7.3	7.63	7.29	3.86	4.35	6.53	5.68	6.53

BOREFILED	BORE	RECOMMENDED MONTHLY YIELD (ML)**	MONTH											
			JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE
	T13	10.5	2.07	1.17	0.44	0.95	4.57	4.35	4.49	4.22	4.83	4.52	3.92	4.02

** Monthly recommended yield is calculated as a 30 day average from the recommended yield per day taken from the Triennial Aquifer Review July 2020 – June 2023 (Green, Croton & Dalton, 2024). (Appendix 6: Water Monitoring Results and Reports

	Trigger level exceedance
	Threshold level exceedance

4.8.2.2 Water Monitoring

Water monitoring activities continued during the reporting period. Results are provided below in accordance with the monitoring activities outlined in the Water Management Plan (WMP).

4.8.2.2.1 BBM Trigger and Threshold levels

The WMP outlines trigger and threshold values to be monitored for much of the sampling regime, and these are outlined in Table 4-21. Where these triggers or thresholds have been reached, they are highlighted in yellow (triggers) or red (thresholds) in the monitoring reporting tables in section 4.8.2.2.2 (Table 4-23, Table 4-24 and Table 4-25).

Table 4-21 BBM Trigger and Threshold Levels

BBM GROUNDWATER MONITORING						
BORE	**GROUNDWATER RISE (mbgl)**		**GROUNDWATER DECLINE (mbgl)**		**TDS (mg/L)**	
	Trigger	**Threshold**	**Trigger**	**Threshold**	**Trigger**	**Threshold**
A04	9.6	6.4	N/A	N/A	N/A	N/A
B01	0.7	0.6	15.4	15.9	N/A	N/A
H12D	TBA	TBA	N/A	N/A	N/A	N/A
H12S	TBA*	TBA*	N/A	N/A	N/A	N/A
H13D	TBA*	TBA*	N/A	N/A	N/A	N/A
H13S	TBA*	TBA*	N/A	N/A	N/A	N/A
MP21	14.85	9.9	N/A	N/A	N/A	N/A
P12	1.5	1.3	10.85	11.35	N/A	N/A
Q03	2.2	1.8	4.25	4.75	N/A	N/A
Q05	2.6	2.2	10.55	11.05	N/A	N/A
Q06	20.6	13.8	N/A	N/A	N/A	N/A
Q07	18.2	12.15	N/A	N/A	N/A	N/A
Q08	14.6	9.7	N/A	N/A	N/A	N/A
T05	1	0.8	11.85	12.35	N/A	N/A
T07C	2.3	1.95	16.15	16.65	N/A	N/A
T11	3.4	2.9	17.1	17.6	N/A	N/A
T11A	3.3	2.8	16.3	16.8	N/A	N/A
Q09	N/A	N/A	N/A	N/A	TBA**	TBA**
Q11	N/A	N/A	N/A	N/A	TBA**	TBA**
All other bores	Potentially concerning trend identified by hydrogeologist within the triennial aquifer review of groundwater monitoring data. Potentially concerning trend identified during annual monitoring review undertaken in association with CAR.					

BBM SURFACE WATER MONITORING		
Sample Type	**Trigger**	
	TDS (mg/L)	**EC, Turbidity, TSS (various)**
Livestock Dams	4000	N/A
Regional Surface Water	Downstream monitoring point water quality is inferior to upstream water quality and is >2SDEV from the mean upstream monitoring point. Where upstream monitoring point is not available use mean baseline	
S42	TBD***	N/A

* Insufficient baseline to set trigger and threshold levels at this time (2 years required).

** Used to support Targeted Perched Aquifer – *C hopperiana* monitoring program. 12 months baseline monitoring required to establish baseline for trigger level.

4.8.2.2.2 Regional and GDE Groundwater Monitoring

Groundwater monitoring was undertaken in accordance with the WMP. Most monitoring locations under the groundwater monitoring programs have been in place, and had ongoing monitoring, for a number of years.

The Triennial Aquifer Review for the period July 2023 to June 2026 concluded that groundwater management at BBM remains effective. Groundwater abstraction remained below the limits approved under MS1237, and no significant adverse impacts attributable to abstraction were identified. Regional groundwater monitoring indicated groundwater levels and salinity were generally stable, with observed trends largely influenced by climatic conditions, rehabilitation activities and local land-use factors, rather than mining-related abstraction.

Within the targeted GDE Groundwater Monitoring Program, groundwater level trigger exceedances were identified at bores A04, B01 and Q05. The exceedances at B01 and Q05 occurred prior to the approval of MS1237 and implementation of the approved WMP. Groundwater levels at B01 and Q05 declined during the review period, reducing the level of risk.

In accordance with the WMP, further investigation was required for the trigger exceedance at A04. Groundwater levels at A04 remained above the trigger level and continued to rise during the review period, although at a slower rate than observed in the previous review period. The rise in groundwater level also coincided with an increase in salinity. To further assess the potential extent of groundwater level rise, monitoring was expanded to include two existing bores located down-valley from A04, near the boundary between Saddleback Timber Reserve and adjacent agricultural land. Groundwater levels and salinity at these bores, E03 and E01/04, have remained stable or declined since monitoring commenced in 2005. This indicates that groundwater mounding at A04 is localised, with a low current risk of off-site impacts or saline groundwater discharge.

No other trigger or threshold exceedances, or concerning trends in groundwater level or water quality, were identified in the Targeted GDE Groundwater Monitoring Program or Regional Groundwater Monitoring Program over the review period.

During the reporting period, groundwater monitoring capabilities were expanded through the installation of monitoring infrastructure at newly commissioned monitoring bores in the Quindanning and Hotham North areas. In addition, replacement water level loggers were installed at bores Q07 and Q08 after existing loggers were found to be missing, ensuring continued groundwater level monitoring within the targeted GDE monitoring network.

Logger faults and incidents are described in Table 4-22 with associated response actions to be implemented by Worsley Alumina.

Table 4-22 Logger Faults and Incidents

BORE	FAULT	RESPONSE ACTION
Q06	Bore dry, no logger	Logger to be deployed in FY27
Q03	Logger was lost/stolen	Replaced on 30/3/26 and made secure
Q01	Logger was stolen.	Replace logger 4/5/26
Q07	Logger was stolen after data collection in February 2025	Replaced logger and bore casing locked
T11	Incorrectly named in WMP – should be T11A	New logger deployed 6/5/2026
B04	This bore has become artesian; logger has been removed and the well has been sealed.	Remove monitoring location from continuous monitoring program in WMP.
MP17	Logger removed – tree roots impacted	Bore service in FY27

Field samples were taken at the required locations at six monthly intervals with the results included in Table 4-23 to Table 4-24. Six monthly lab monitoring was conducted in peak summer (i.e. lowest groundwater level) and peak winter (i.e. highest groundwater level) conditions. Monitoring results are presented in Table 4-25.

Graphs of historical water levels and analysis of historical water quality were provided in the FY25 CAR. Together with the updated Triennial Aquifer Review, this information provides an overview of historical trends and supporting analysis.

Table 4-23 Regional Field Monitoring Results

BORE	DATE	WATER LEVEL (mbgl)	EC (µS/CM)	TEMP (˚C)	pH	DO (%)
E01/04	09/12/2025	12.2	3054	20.3	5.8	2.7
	05/05/2026	12.6	3067	20.6	5.5	7.7
E01/06	25/05/2026		1512	20.2	5.9	36.4
F06-D	09/12/2025	6.2	445	23.9	5.4	92.7
	05/05/2026	7.4	562	21.8	4.8	53.0
K01	25/05/2026		1246	19.0	6.6	46.9
K04	01/12/2025	16.5	1041	21.7	6.6	
	06/05/2026	18.1	1429	17.2	6.2	2.4
K05	17/12/2025	6.4	1461	23.5	6.2	
	05/05/2026	8.9	1878	18.1	5.7	4.6
K06	25/05/2026		1793	18.8	6.8	61.4
K07	25/05/2026		2786	18.7	6.6	70.6
K08	25/05/2026		2365	18.5	6.8	67.8
K09	25/05/2026		1848	19.4	6.5	55.6
K13	03/12/2025	7.1	1162	19.3	6.1	47.3
	28/04/2026	8.8	2235	18.3	6.0	48.6
K14	17/07/2025	7.1				
	09/12/2025	7.6	8283	23.4	5.8	5.8
	05/05/2026	7.9	7448	21.1	5.7	10.8
M01	09/12/2025	3.1	3281	22.2	4.6	7.8
	05/05/2026	4.1	2968	16.3	4.7	8.8
M01/08	25/05/2026		4312	19.7	7.2	73.3
M01/11	25/05/2026		2832	19.7	6.8	59.4

BORE	DATE	WATER LEVEL (mbgl)	EC (µS/CM)	TEMP (˚C)	pH	DO (%)
M01/18	10/12/2025	5.8	2841	22.8	6.8	3.9
	01/05/2026	6.5	2492	19.5	6.7	31.7
M02/08	25/05/2026		4362	19.8	6.4	51.4
M02/18	25/05/2026		5725	21.6	6.6	72.5
M03	17/07/2025	3.7				
	08/12/2025	3.8	2802	21.2	5.8	2.9
	01/05/2026	4.4	2638	18.0	5.9	2.0
M04	08/12/2025	21.6	2917	26.1	6.0	13.8
	29/04/2026	22.0	2453	19.4	5.9	7.1
M06	08/12/2025	4.6	2567	23.0	6.1	12.0
	01/05/2026	5.0	2331	19.4	5.7	3.0
MP03	08/12/2025	2.0	2019	21.1	5.9	39.8
	01/05/2026	2.3	1923	19.1	6.1	41.6
MP10	08/12/2025	5.3	4107	23.5	6.3	59.4
	01/05/2026	5.1	3356	15.8	6.0	39.9
MP14	10/07/2025	1.9	2962	18.9	6.4	29.6
	11/12/2025	3.4	5820	24.8	6.6	36.8
	29/04/2026	4.1	5206	20.9	6.4	30.5
MP17	10/12/2025	11.7				
MP26	08/12/2025	6.8	14161	24.1	6.3	45.7
	01/05/2026	7.4	9481	15.0	6.2	29.6
MP27	08/12/2025	15.7	8543	23.4	6.2	50.2
	29/04/2026	17.1	7046	19.7	6.0	37.1
N01	10/12/2025	1.8	2797	20.8	6.0	44.1
	28/04/2026	1.8	3133	20.5	6.0	38.3
N04	17/07/2025	3.0				
	10/12/2025	3.8	207	23.9	6.3	69.8
	28/04/2026	3.8	598	19.3	6.3	72.2
N05	17/07/2025	4.5				
	10/12/2025	5.2	171	25.0	6.8	68.7
	28/04/2026	5.3	297	20.0	6.7	77.2
N07	10/12/2025	3.1	1632	21.9	6.1	71.8
	28/04/2026	3.2	1665	19.8	6.1	67.7
N10	10/12/2025	5.0	5907	21.0	6.1	20.5
	28/04/2026	5.7	5597	19.2	6.2	19.9
Q01	03/12/2025	0.5	6716	22.5	5.6	2.1
	04/05/2026	0.8	9790	19.3	5.6	2.3
Q02	17/07/2025	4.7				

BORE	DATE	WATER LEVEL (mbgl)	EC (µS/CM)	TEMP (˚C)	pH	DO (%)
	10/12/2025	4.8	10710	20.7	5.5	3.2
	04/05/2026	5.4	9977	18.6	5.4	3.4
SE01/01	25/05/2026		1484	19.1	6.0	70.4
SE01/04	25/05/2026		7066	19.9	6.6	79.1
SE02/03	25/05/2026		5122	20.9	6.5	74.7
SE02/06	25/05/2026		3055	19.0	6.0	54.6
SE03/01	25/05/2026		3861	20.3	6.2	55.4
T06C	02/12/2025	3.2	248	23.8	5.6	
	06/05/2026	7.2				
T07A	25/05/2026		319	18.2	5.8	77.6
T08	25/05/2026		572	20.1	6.0	80.4
T10	25/05/2026		743	19.5	6.0	78.9
T12	25/05/2026		668	18.9	6.4	38.6
T13	25/05/2026		605	18.8	6.6	64.4
T14	25/05/2026		1961	18.0	2.7	55.8

*Missing data in rows above due to instrument faults or dry bore when taking measurements
Note – where field data was not available, lab results have been used for reporting

Table 4-24 GDE Field Monitoring Results

BORES	DATE	WATER LEVEL (mbgl)	EC (µS/cm)	Temp (˚C)	pH	DO (%)
A04	02/12/2025	8.82	1832	26.2	5.403	
	28/04/2026	9.57	2089	17.76	5.31	39.49
B01	02/12/2025	1.37	993	24.6	5.868	
	28/04/2026	1.82	1278	18.31	5.59	37.36
H13D	11/12/2025	28.64	8514	29.8	6.513	30.67
	29/04/2026	28.68	5921	20.7	7.28	67.1
MP21	08/12/2025	24.39	2610	24.9	5.748	45.96
	01/05/2026	25.14	2198	19.4	5.57	41.6
P12	02/12/2025	7.77	1363	22.8	5.879	
	06/05/2026	9.48	1515	16.04	5.39	21.03
Q03	03/12/2025	3.07	2173	20.68	5.619	6.08
	04/05/2026	3.45	2985	15.6	5.68	6.52
Q05	03/12/2025	3.74	1506	22.71	5.427	4.25
	04/05/2026	5.07	2233	19	5.29	9.08
Q07	03/12/2025	28.15	3083	21.9	6.041	345
	04/05/2026	28.23	4415	18.4	5.97	4.38
Q08	17/07/2025	25.876				

BORES	DATE	WATER LEVEL (mbgl)	EC (µS/cm)	Temp (˚C)	pH	DO (%)
	03/12/2025	26.64	3959	21.44	5.85	2.77
	04/05/2026	26.8	5745	18	5.8	2.26
T05	02/12/2025	4.63	212	21.18	5.113	
	06/05/2026	6.41	282	18.61	4.78	19.91
T07C	02/12/2025	5.1	404	20.99	6.646	
	06/05/2026	10.51	567	18.65	6.3	5.29
T11	02/12/2025	9.01	809	22.7	5.639	
	06/05/2026	13.85	822	17.47	6.44	5.1
T11A	02/12/2025	8.63	594	21.49	5.716	
	06/05/2026	14.01	771	15.93	5.26	27.81

*Q09 and Q11 have been dry since installation

Trigger Level Exceedance

Threshold Level Exceedance

Table 4-25 Regional and GDE Groundwater Laboratory Monitoring Results

Bore	Date	Aluminium (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Mercury (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Zinc (mg/L)	Ammonia (mg/L)	Ammonium as N (mg/L)	Electrical Conductivity @ 25°C (µS/cm)	Fluoride (mg/L)	Nitrite + Nitrate as N (mg/L)	pH (pH Unit)	Silicon as SiO2 (mg/L)	TDS Calculation (mg/L)	Total Alkalinity as CaCO3 (mg/L)	Total Nitrogen as N (mg/L)	Total Phosphorus as P (mg/L)
A04	02/12/2025	0.64	< 0.001	< 0.0001	50	780	< 0.001	0.003	5.71	0.002	74	0.027	< 0.0001	0.005	< 1	< 0.004	358	74	< 0.005	0.01	< 0.01	2580	< 0.1	< 0.01	6.23	21.2	1680	32	0.2	< 0.01
	28/04/2026	1.13	< 0.001	< 0.0001	48	675	< 0.001	0.009	5.56	0.005	67	0.029	< 0.0001	0.005	1	< 0.004	311	73	0.02	0.02	0.02	2380	< 0.1	0.03	6.41	20.3	1550	37	0.4	0.05
B01	02/12/2025	0.52	< 0.001	< 0.0001	30	419	0.006	0.007	1.04	0.043	36	0.492	< 0.0001	0.018	2	< 0.004	230	46	0.039	0.07	0.07	1420	< 0.1	0.02	6.64	24.7	923	48	1.5	0.03
	28/04/2026	0.1	< 0.001	< 0.0001	29	392	< 0.001	0.003	0.7	0.013	36	0.443	< 0.0001	0.009	2	< 0.004	197	47	0.014	0.07	0.07	1450	< 0.1	< 0.01	6.87	23.3	942	49	0.3	< 0.01
E01/04	09/12/2025	0.12	< 0.001	0.0004	99	926	< 0.001	0.008	0.68	< 0.001	104	1.21	< 0.0001	0.031	5	< 0.004	376	94	0.028	0.01	< 0.01	3130	0.1	< 0.01	6.27	45.3	2030	74	< 0.1	0.03
	05/05/2026	0.36	< 0.001	0.0003	93	939	0.002	0.012	0.7	0.001	100	1.23	< 0.0001	0.028	4	< 0.004	386	97	0.033	< 0.01	< 0.01	3100	< 0.1	< 0.01	5.99	42.7	2020	68	< 0.1	0.03
F06-D	09/12/2025	1.04	0.002	< 0.0001	11	128	0.002	0.015	0.57	0.008	17	0.025	< 0.0001	0.018	< 1	< 0.004	68	24	0.058	0.71	0.71	523	0.2	5.82	5.85	6	340	2	8.5	0.13
	05/05/2026	0.86	< 0.001	< 0.0001	11	147	0.002	0.004	0.45	0.002	17	0.024	< 0.0001	0.004	< 1	< 0.004	75	23	0.051	< 0.01	< 0.01	589	0.1	5.88	5.32	6.2	383	1	7.3	0.08
H12D	11/12/2025	5.6	0.001	0.0001	358	3200	0.035	0.024	7.74	0.002	337	0.927	< 0.0001	0.049	29	< 0.004	1150	267	0.049	0.1	0.1	9960	0.2	0.01	7.49	35	6470	184	0.4	0.26
	29/04/2026	2.29	< 0.001	< 0.0001	341	3180	0.013	0.006	3.01	< 0.001	318	1.61	< 0.0001	0.046	26	< 0.004	1170	249	0.024	0.48	0.47	9860	0.1	0.03	7.5	37	6410	204	0.7	0.09
H13D	11/12/2025	3.13	0.002	0.0001	264	2090	0.005	0.026	4.95	0.01	176	3.11	< 0.0001	0.023	24	< 0.004	886	92	0.264	0.9	0.89	6970	0.5	0.07	7.36	39.8	4530	447	2.5	0.18
	29/04/2026	0.63	< 0.001	< 0.0001	268	2100	< 0.001	0.005	1.48	0.001	167	3.54	< 0.0001	0.007	22	< 0.004	867	90	0.016	0.22	0.22	6960	0.4	0.04	7.45	36.9	4520	568	0.7	0.02
K04	01/12/2025	< 0.01	< 0.001	< 0.0001	109	377	< 0.001	0.005	2.51	< 0.001	48	0.641	< 0.0001	0.004	5	< 0.004	153	27	0.02	< 0.01	< 0.01	1610	< 0.1	< 0.01	7.73	59.4	1050	242	< 0.1	0.04
	06/05/2026	0.04	< 0.001	< 0.0001	113	370	< 0.001	0.004	3.34	< 0.001	48	0.652	< 0.0001	0.004	5	< 0.004	142	29	0.009	< 0.01	< 0.01	1640	< 0.1	< 0.01	7.37	57	1070	256	< 0.1	0.08
K05	02/12/2025	0.02	< 0.001	< 0.0001	63	659	< 0.001	0.003	< 0.05	< 0.001	54	0.001	< 0.0001	0.002	3	< 0.004	321	57	< 0.005	< 0.01	< 0.01	2180	< 0.1	0.05	7.13	20.9	1420	64	< 0.1	< 0.01
	05/05/2026	0.02	< 0.001	< 0.0001	62	616	0.002	0.003	< 0.05	< 0.001	50	0.008	< 0.0001	0.003	2	< 0.004	255	51	< 0.005	< 0.01	< 0.01	2050	< 0.1	0.02	6.22	17.6	1330	53	< 0.1	< 0.01
K13	03/12/2025	1.39	< 0.001	< 0.0001	77	709	0.006	0.007	1.91	0.042	66	0.051	0.0004	0.008	2	< 0.004	318	63	0.014	0.49	0.49	2390	< 0.1	0.18	6.69	22.1	1550	71	1.3	0.19
	28/04/2026	0.7	< 0.001	< 0.0001	82	686	0.003	0.006	1.01	0.005	60	0.018	< 0.0001	0.007	2	< 0.004	305	70	0.031	0.31	0.31	2470	< 0.1	0.15	7.35	22.6	1610	72	1	0.1
K14	09/12/2025	1.76	0.002	0.0005	289	2780	0.003	0.028	2.18	0.004	319	0.088	< 0.0001	0.033	< 1	< 0.004	975	180	0.022	0.02	0.02	7980	0.2	< 0.01	6.45	30.5	5190	138	< 0.1	0.14
	05/05/2026	1.19	0.002	0.0005	243	2690	0.002	0.028	2.09	0.003	270	0.092	< 0.0001	0.016	< 1	< 0.004	864	181	0.016	< 0.01	< 0.01	7920	0.2	< 0.01	6.27	30.4	5150	149	< 0.1	0.08
M01	09/12/2025	0.14	< 0.001	< 0.0001	150	1020	< 0.001	0.021	0.16	0.004	167	0.403	0.0003	0.106	2	< 0.004	243	13	0.202	0.01	< 0.01	3220	< 0.1	0.17	5.29	19.4	2090	6	0.2	0.01
	05/05/2026	0.1	< 0.001	0.0001	137	1110	< 0.001	0.019	0.08	0.001	149	0.461	0.0002	0.104	2	< 0.004	280	23	0.164	< 0.01	< 0.01	3400	< 0.1	0.04	5.27	16.3	2210	4	< 0.1	< 0.01
M01/08	25/05/2026	< 0.01	< 0.001	< 0.0001	309	1330	< 0.001	< 0.001	< 0.05	< 0.001	159	0.429	< 0.0001	< 0.001	7	< 0.004	296	64	< 0.005											
M01/18	10/12/2025	0.06																		< 0.01	< 0.01	2810	< 0.1	0.22	7.66	41.8	1830	157	0.2	0.06
	01/05/2026	0.06																		< 0.01	< 0.01	2660	< 0.1	0.15	7.63	40.7	1730	142	0.4	0.02
M03	08/12/2025	0.1	< 0.001	0.0001	117	863	0.001	0.007	0.39	< 0.001	103	0.04	< 0.0001	0.026	1	< 0.004	316	36	0.035	< 0.01	< 0.01	2780	< 0.1	0.03	6.65	53.6	1810	91	< 0.1	0.03
	01/05/2026	0.05	< 0.001	< 0.0001	73	885	< 0.001	0.003	0.39	< 0.001	69	0.041	< 0.0001	0.01	< 1	< 0.004	429	33	0.008	< 0.01	< 0.01	2980	< 0.1	< 0.01	7.24	71.5	1940	125	< 0.1	0.04
M04	08/12/2025	0.45	< 0.001	0.0003	121	807	0.005	0.013	3.39	0.002	161	0.058	0.0003	0.041	3	< 0.004	168	42	0.069	< 0.01	< 0.01	2610	< 0.1	0.28	6.81	37.2	1700	137	0.4	0.36
	29/04/2026	0.35	< 0.001	0.0002	130	814	0.005	0.007	2.1	< 0.001	164	0.066	< 0.0001	0.038	5	< 0.004	166	37	0.052	0.02	0.02	2700	< 0.1	0.26	7.13	35.4	1760	153	0.4	0.19
M06	08/12/2025	5.98	< 0.001	0.0003	43	762	0.035	0.028	13.3	0.005	87	0.187	< 0.0001	0.044	4	< 0.004	352	41	0.059	< 0.01	< 0.01	2470	0.2	0.02	6.65	49.4	1610	99	< 0.1	0.35
	01/05/2026	2.27	< 0.001	< 0.0001	43	761	0.012	0.01	5.33	0.002	85	0.155	< 0.0001	0.024	4	< 0.004	353	40	0.048	< 0.01	< 0.01	2610	0.2	< 0.01	7	46.2	1700	103	< 0.1	0.14
MP03	08/12/2025	3.28	< 0.001	< 0.0001	86	613	0.007	0.02	6.61	0.003	69	0.082	< 0.0001	0.014	2	< 0.004	234	53	0.055	0.02	0.02	2010	< 0.1	2.71	6.86	27.8	1310	72	3.4	0.15
	01/05/2026	0.82	< 0.001	< 0.0001	85	608	0.001	0.003	1.52	< 0.001	68	0.026	< 0.0001	0.005	1	< 0.004	236	53	0.012	0.01	< 0.01	2070	< 0.1	2.67	7.18	28	1350	78	3.2	0.06
MP10	08/12/2025	0.68	< 0.001	< 0.0001	163	1180	0.002	0.006	1.74	0.002	197	0.019	< 0.0001	0.005	3	< 0.004	312	44	0.035	0.04	0.04	3830	< 0.1	0.02	6.73	37.5	2490	124	1.2	0.08

Bore	Date	Aluminium (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Mercury (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Zinc (mg/L)	Ammonia (mg/L)	Ammonium as N (mg/L)	Electrical Conductivity @ 25°C (µS/cm)	Fluoride (mg/L)	Nitrite + Nitrate as N (mg/L)	pH (pH Unit)	Silicon as SiO2 (mg/L)	TDS Calculation (mg/L)	Total Alkalinity as CaCO3 (mg/L)	Total Nitrogen as N (mg/L)	Total Phosphorus as P (mg/L)
	01/05/2026	0.36	< 0.001	< 0.0001	167	1200	< 0.001	0.004	2.17	< 0.001	194	0.019	< 0.0001	0.004	2	< 0.004	315	45	0.01	0.06	0.06	3940	0.1	0.02	7.03	36.9	2560	131	0.6	0.07
MP14	01/07/2025	0.12	<0.001	<0.0001	72	1560	<0.001	0.004	0.8	0.001	144	0.014	<0.0001	<0.001	5	<0.01	726		0.009	1.82	1.81	5280	0.5	0.01	6.92	44.2	3430	140	4	1.24
	11/12/2025	1.56	< 0.001	< 0.0001	72	1640	0.002	0.01	0.93	0.004	150	0.034	< 0.0001	0.012	6	< 0.004	691	50	0.034	5.97	5.93	5050	0.5	0.02	7.05	44.5	3280	160	8.6	0.86
	29/04/2026	2.68	< 0.001	< 0.0001	81	1690	< 0.001	0.005	0.84	0.002	158	0.022	< 0.0001	0.002	4	< 0.004	728	78	0.008	1.47	1.45	5480	0.5	0.02	7.34	43.2	3560	137	2.4	0.21
MP21	08/12/2025	15.6	0.001	< 0.0001	89	769	0.088	0.065	34.6	0.014	107	0.54	< 0.0001	0.053	3	< 0.004	247	45	0.063	0.02	0.02	2390	< 0.1	0.07	6.25	30.8	1550	48	0.7	2.66
	01/05/2026	4.38	< 0.001	< 0.0001	87	745	0.038	0.037	22.3	0.006	106	0.117	< 0.0001	0.022	3	< 0.004	251	43	0.039	< 0.01	< 0.01	2450	< 0.1	0.03	6.67	28.3	1590	54	0.3	0.24
MP26	08/12/2025	6.05	< 0.001	< 0.0001	417	4660	0.042	0.021	11.6	0.005	480	0.018	0.0004	0.009	2	< 0.004	1810	248	0.029	0.26	0.26	13100	0.1	0.03	6.9	11	8520	258	0.7	0.1
	01/05/2026	3.97	< 0.001	< 0.0001	370	3810	0.025	0.022	7.31	0.003	402	0.028	0.0003	0.005	3	< 0.004	1540	250	0.01	0.15	0.15	11700	0.1	0.08	7.28	18	7600	227	0.7	0.07
MP27	08/12/2025	0.35	< 0.001	< 0.0001	327	2800	0.001	0.016	1.24	0.002	348	0.069	0.0001	0.006	2	< 0.004	874	269	0.026	0.07	0.07	7800	< 0.1	0.43	6.95	34.8	5070	124	0.8	0.1
	29/04/2026	0.24	< 0.001	< 0.0001	313	2570	0.001	0.014	0.58	0.002	316	0.021	< 0.0001	0.005	2	< 0.004	718	265	0.031	0.03	0.03	7740	< 0.1	0.32	7.16	36.2	5030	139	0.8	0.08
N01	10/12/2025	0.66	< 0.001	< 0.0001	90	827	0.002	0.003	1.17	< 0.001	138	0.007	< 0.0001	0.003	2	< 0.004	303	112	0.014	< 0.01	< 0.01	2880	0.2	3.58	7.1	47.3	1870	63	4	0.04
	28/04/2026	0.74	< 0.001	< 0.0001	116	974	0.002	0.004	1.2	< 0.001	152	0.006	< 0.0001	0.002	1	< 0.004	331	116	0.014	< 0.01	< 0.01	3480	0.1	2.93	7.2	50.5	2260	62	3.1	< 0.01
N04	10/12/2025	4.02	< 0.001	< 0.0001	7	53	0.01	0.007	4.22	0.002	9	0.065	< 0.0001	0.006	< 1	< 0.004	47	10	0.022	0.13	0.13	331	< 0.1	6.33	7.29	45.4	215	43	7.4	0.08
	28/04/2026	0.23	< 0.001	< 0.0001	27	130	< 0.001	0.001	0.31	< 0.001	27	0.005	< 0.0001	< 0.001	< 1	< 0.004	68	18	0.014	0.01	< 0.01	683	0.1	6.81	7.4	60.2	444	69	7.6	0.02
N05	10/12/2025	1.1	< 0.001	< 0.0001	1	36	< 0.001	0.002	0.91	< 0.001	3	0.001	< 0.0001	< 0.001	< 1	< 0.004	63	17	0.006	0.01	< 0.01	299	0.4	4.05	7.72	34.5	194	53	4.6	0.01
	28/04/2026	1.2	< 0.001	< 0.0001	1	44	0.001	0.002	1.74	< 0.001	3	0.006	< 0.0001	< 0.001	< 1	< 0.004	68	20	0.007	0.02	0.02	342	0.5	3.88	7.73	38.9	222	64	4.5	< 0.01
N07	10/12/2025	2.65	< 0.001	< 0.0001	106	557	0.016	0.016	8.93	0.001	117	0.103	< 0.0001	0.016	< 1	< 0.004	96	62	0.035	< 0.01	< 0.01	1890	< 0.1	6.62	7.15	54.4	1230	51	7.3	0.28
	28/04/2026	0.8	< 0.001	< 0.0001	112	539	0.004	0.005	2.21	< 0.001	111	0.019	< 0.0001	0.006	< 1	< 0.004	92	68	0.017	< 0.01	< 0.01	1960	0.1	6	7.15	56.2	1270	51	6.8	0.14
N10	10/12/2025	3.38	< 0.001	< 0.0001	264	2070	0.025	0.017	11.3	0.002	247	0.027	0.0006	0.035	2	< 0.004	762	269	0.028	< 0.01	< 0.01	6430	0.2	0.75	7.24	34.4	4180	184	0.8	0.19
	28/04/2026	0.87	< 0.001	< 0.0001	257	1880	0.006	0.008	2.58	< 0.001	215	0.01	0.0001	0.008	1	< 0.004	715	237	0.032	0.01	< 0.01	6310	0.2	0.78	7.44	35.2	4100	204	1	0.08
P12	02/12/2025	1.42	< 0.001	< 0.0001	48	643	0.002	0.021	1.28	0.003	57	0.007	0.0001	0.006	1	< 0.004	304	38	0.013	< 0.01	< 0.01	2110	< 0.1	0.1	6.79	17.5	1370	36	0.4	0.1
	06/05/2026	0.89	< 0.001	< 0.0001	39	524	0.001	0.012	0.75	0.002	45	0.006	0.0001	0.01	1	< 0.004	240	33	0.015	< 0.01	< 0.01	1760	< 0.1	0.12	6.49	16.3	1140	40	0.3	0.05
Q01	03/12/2025	0.03	< 0.001	0.0003	312	3730	0.001	0.02	0.09	< 0.001	523	0.262	0.0001	0.042	5	< 0.004	1260	200	0.008	0.02	0.02	10500	0.2	0.01	6.34	52.2	6820	117	< 0.1	0.01
	04/05/2026	0.02	< 0.001	0.0002	315	3640	< 0.001	0.014	< 0.05	< 0.001	473	0.253	0.0001	0.041	5	< 0.004	1240	236	0.011	< 0.01	< 0.01	11000	0.2	< 0.01	6.79	50.4	7150	117	0.1	< 0.01
Q02	10/12/2025	0.06	< 0.001	0.0002	328	3760	< 0.001	0.011	0.26	0.002	558	0.052	< 0.0001	0.075	6	< 0.004	1280	351	0.024	0.06	0.06	11300	0.2	< 0.01	6.62	43.9	7340	96	0.1	0.02
	04/05/2026	0.05	< 0.001	0.0002	300	3720	< 0.001	0.015	0.22	0.002	450	0.059	< 0.0001	0.059	5	< 0.004	1140	336	0.025	0.07	0.07	11200	0.2	< 0.01	6.72	42.7	7280	92	0.1	0.02
Q03	03/12/2025	0.12	< 0.001	< 0.0001	89	1020	0.001	0.007	0.69	< 0.001	120	0.221	< 0.0001	0.009	3	< 0.004	459	79	0.028	0.02	0.02	3410	0.1	< 0.01	6.37	41.8	2220	81	< 0.1	0.03
	04/05/2026	0.02	< 0.001	< 0.0001	92	1050	< 0.001	0.004	0.43	< 0.001	111	0.213	< 0.0001	0.008	3	< 0.004	461	87	0.016	< 0.01	< 0.01	3540	0.1	0.01	6.92	41.9	2300	80	< 0.1	0.04
Q05	03/12/2025	0.92	0.001	< 0.0001	10	702	0.001	0.012	4.72	0.003	33	0.258	< 0.0001	0.01	< 1	< 0.004	446	35	0.043	0.03	0.03	2280	0.1	< 0.01	6.21	50	1480	38	0.1	0.16
	04/05/2026	0.46	0.001	< 0.0001	11	747	< 0.001	0.009	3.5	0.002	30	0.225	< 0.0001	0.005	< 1	< 0.004	441	38	0.046	< 0.01	< 0.01	2430	0.2	0.02	6.54	51.5	1580	40	0.1	0.13
Q07	03/12/2025	6.22	< 0.001	0.0002	186	1630	0.004	0.02	3.81	0.013	256	0.07	< 0.0001	0.007	4	< 0.004	485	76	0.023	0.02	0.02	4840	0.2	< 0.01	6.78	31.1	3150	146	0.3	0.13
	04/05/2026	2.86	< 0.001	< 0.0001	182	1650	0.001	0.015	2.1	0.008	219	0.058	< 0.0001	0.013	3	< 0.004	459	86	0.027	< 0.01	< 0.01	4900	0.2	< 0.01	7.13	30.8	3180	144	0.2	0.1
Q08	03/12/2025	0.46	0.001	< 0.0001	192	1990	< 0.001	0.014	9.37	0.002	272	1.38	< 0.0001	0.045	7	< 0.004	695	126	0.014	0.02	0.02	6300	0.2	0.02	6.54	37.6	4100	128	< 0.1	0.15
	04/05/2026	0.31	< 0.001	< 0.0001	205	2180	< 0.001	0.011	8.96	0.001	264	1.28	< 0.0001	0.01	7	< 0.004	730	134	0.018	0.01	< 0.01	6460	0.3	0.01	6.95	41.5	4200	120	< 0.1	0.14
T05	02/12/2025	0.19	< 0.001	< 0.0001	6	89	0.003	0.009	0.2	< 0.001	7	0.005	< 0.0001	0.015	< 1	< 0.004	54	5	0.02	< 0.01	< 0.01	334	< 0.1	0.25	6.44	12.6	217	17	0.4	< 0.01
	06/05/2026	0.04	< 0.001	< 0.0001	5	87	0.002	0.006	< 0.05	< 0.001	8	0.004	< 0.0001	0.004	< 1	< 0.004	47	5	0.008	< 0.01	< 0.01	331	< 0.1	0.22	5.77	11.9	215	21	0.2	< 0.01

Bore	Date	Aluminium (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Mercury (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Zinc (mg/L)	Ammonia (mg/L)	Ammonium as N (mg/L)	Electrical Conductivity @ 25°C (µS/cm)	Fluoride (mg/L)	Nitrite + Nitrate as N (mg/L)	pH (pH Unit)	Silicon as SiO2 (mg/L)	TDS Calculation (mg/L)	Total Alkalinity as CaCO3 (mg/L)	Total Nitrogen as N (mg/L)	Total Phosphorus as P (mg/L)
T06C	02/12/2025	0.07	< 0.001	< 0.0001	6	100	< 0.001	0.004	0.37	< 0.001	8	< 0.001	< 0.0001	< 0.001	< 1	< 0.004	60	7	0.045	0.02	0.02	374	< 0.1	0.4	6.77	8.7	243	14	0.4	< 0.01
T07C	02/12/2025	< 0.01	< 0.001	< 0.0001	36	96	< 0.001	0.001	0.07	< 0.001	24	0.002	< 0.0001	< 0.001	1	< 0.004	54	6	< 0.005	0.01	< 0.01	633	< 0.1	0.04	7.6	50.6	411	133	< 0.1	< 0.01
	06/05/2026	0.01	< 0.001	< 0.0001	39	115	< 0.001	0.001	< 0.05	< 0.001	27	0.003	< 0.0001	< 0.001	2	< 0.004	52	6	< 0.005	< 0.01	< 0.01	644	< 0.1	0.03	7.52	48.5	419	147	< 0.1	0.02
T11	02/12/2025	0.07	< 0.001	< 0.0001	28	373	< 0.001	0.01	3.36	< 0.001	31	0.023	< 0.0001	0.003	1	< 0.004	190	20	0.014	0.01	< 0.01	1220	< 0.1	0.15	6.74	18.5	793	43	0.4	0.03
	06/05/2026	0.05	< 0.001	< 0.0001	65	201	< 0.001	0.002	0.96	< 0.001	32	0.096	< 0.0001	0.002	2	< 0.004	77	7	< 0.005	< 0.01	< 0.01	935	0.1	0.01	7.51	66.1	608	170	< 0.1	0.02
T11A	02/12/2025	0.05	< 0.001	< 0.0001	17	275	0.166	0.005	0.83	< 0.001	20	0.002	< 0.0001	0.003	1	< 0.004	139	18	0.009	< 0.01	< 0.01	898	< 0.1	0.12	6.75	12.2	584	24	0.2	0.01
	06/05/2026	0.12	< 0.001	< 0.0001	18	264	0.173	0.004	0.92	< 0.001	22	0.003	< 0.0001	0.009	1	< 0.004	127	16	0.006	< 0.01	< 0.01	904	< 0.1	0.09	6.47	12.3	588	30	0.2	0.01

4.8.2.2.3 Production Bore Monitoring Program

Production bore monitoring was undertaken in accordance with the WMP. The results are provided in Table 4-26.

Groundwater abstraction over the review period was significantly below the volume approved under MS1237. The Triennial Aquifer Review concluded that current abstraction rates remain sustainable. While several individual production bores operated above historical recommended yields, monitoring data did not indicate associated impacts to groundwater-dependent ecosystems, regional groundwater levels or groundwater quality. Overall, the review did not identify evidence of unacceptable environmental impacts from groundwater abstraction and confirmed that the existing monitoring and management framework remains appropriate for the protection of environmental values.

Table 4-26 Production Bore Laboratory Monitoring Results

Analyte		Electrical Conductivity @ 25°C	Fluoride (mg/L)	pH (pH Unit)	Silicon as SiO2 (mg/L)	Total Alkalinity as CaCO3	Total Dissolved Solids	Total Nitrogen as N	Aluminium (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Mercury (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Zinc (mg/L)
Bore	Date																								
E01/06	25/05/2026	1620	< 0.1	7.21	57.0	105	973	0.3	< 0.01	< 0.001	< 0.0001	55	438	< 0.001	0.17	< 0.001	42	0.177	< 0.0001	0.198	3	< 0.004	192	72	0.202
K01	25/05/2026	1380	< 0.1	7.56	71.6	231	868	< 0.1	< 0.01	< 0.001	< 0.0001	113	318	< 0.001	2.29	< 0.001	34	0.380	< 0.0001	< 0.001	4	< 0.004	89	13	< 0.005
K06	25/05/2026	1940	< 0.1	7.69	66.8	246	1180	< 0.1	< 0.01	< 0.001	< 0.0001	180	496	< 0.001	0.97	< 0.001	51	0.505	< 0.0001	0.001	5	< 0.004	118	19	< 0.005
K07	25/05/2026	3040	< 0.1	7.58	48.9	188	1780	0.1	< 0.01	< 0.001	< 0.0001	158	856	< 0.001	0.64	< 0.001	73	0.233	< 0.0001	0.007	5	< 0.004	297	82	< 0.005
K08	25/05/2026	2670	< 0.1	7.67	65.0	253	1580	< 0.1	< 0.01	< 0.001	< 0.0001	188	716	< 0.001	2.34	< 0.001	72	0.830	< 0.0001	0.001	5	< 0.004	185	46	< 0.005
K09	25/05/2026	2010	< 0.1	7.48	63.5	208	1240	0.2	< 0.01	< 0.001	< 0.0001	119	527	< 0.001	0.24	< 0.001	65	0.407	< 0.0001	0.003	3	< 0.004	167	34	< 0.005
M01/08	25/05/2026	4600	< 0.1	7.82	69.8	297	2770	< 0.1	< 0.01	< 0.001	< 0.0001	309	1330	< 0.001	< 0.05	< 0.001	159	0.429	< 0.0001	< 0.001	7	< 0.004	296	64	< 0.005
M01/11	25/05/2026	3010	0.1	7.65	65.4	157	1730	< 0.1	< 0.01	< 0.001	< 0.0001	130	867	< 0.001	1.43	< 0.001	103	0.380	< 0.0001	0.003	5	< 0.004	267	41	< 0.005
M01/18	10/12/2025	2810	< 0.1	7.66	41.8	157	1830	0.2	0.06	< 0.001	< 0.0001	165	803	< 0.001	0.66	< 0.001	141	0.167	< 0.0001	0.002	3	< 0.004	193	50	0.007
	01/05/2026	2660	< 0.1	7.63	40.7	142	1730	0.4	0.06	< 0.001	< 0.0001	166	774	< 0.001	0.23	< 0.001	127	0.175	< 0.0001	0.003	2	< 0.004	183	48	0.014
M02/08	25/05/2026	4660	< 0.1	7.35	56.0	219	2660	0.2	< 0.01	< 0.001	< 0.0001	232	1460	< 0.001	1.07	< 0.001	209	0.847	< 0.0001	0.001	3	< 0.004	328	84	< 0.005
SE01/04	25/05/2026	7660	0.2	7.34	62.2	164	5020	< 0.1	< 0.01	< 0.001	< 0.0001	258	2570	< 0.001	11.1	< 0.001	256	0.917	< 0.0001	0.003	10	< 0.004	809	155	0.007
SE02/03	25/05/2026	5230	0.2	7.41	78.8	187	3090	< 0.1	< 0.01	< 0.001	< 0.0001	313	1720	< 0.001	3.90	< 0.001	179	0.623	< 0.0001	0.001	6	< 0.004	401	87	< 0.005
SE02/06	25/05/2026	3280	0.1	6.96	49.8	55	1970	0.9	< 0.01	< 0.001	< 0.0001	73	1010	< 0.001	< 0.05	< 0.001	83	0.295	< 0.0001	0.012	1	< 0.004	407	57	< 0.005
SE03/01	25/05/2026	4050	0.1	7.19	55.5	121	2630	0.7	< 0.01	< 0.001	< 0.0001	134	1200	< 0.001	< 0.05	< 0.001	112	0.519	< 0.0001	0.008	5	< 0.004	439	114	0.047

Analyte		Electrical Conductivity @ 25°C	Fluoride (mg/L)	pH (pH Unit)	Silicon as SiO2 (mg/L)	Total Alkalinity as CaCO3	Total Dissolved Solids	Total Nitrogen as N	Aluminium (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Mercury (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Zinc (mg/L)
Bore	Date																								
T07A	25/05/2026	377	< 0.1	6.92	13.5	24	209	0.1	< 0.01	< 0.001	< 0.0001	7	96	< 0.001	0.10	< 0.001	8	< 0.001	< 0.0001	< 0.001	< 1	< 0.004	49	5	< 0.005
T08	25/05/2026	641	< 0.1	7.23	20.4	41	392	< 0.1	< 0.01	< 0.001	< 0.0001	16	171	< 0.001	< 0.05	< 0.001	15	0.009	< 0.0001	< 0.001	< 1	< 0.004	80	8	< 0.005
T10	25/05/2026	806	< 0.1	7.03	17.3	34	468	< 0.1	< 0.01	< 0.001	< 0.0001	19	203	< 0.001	< 0.05	< 0.001	18	< 0.001	< 0.0001	0.002	< 1	< 0.004	103	9	0.072
T12	25/05/2026	729	< 0.1	7.10	78.3	151	496	< 0.1	< 0.01	< 0.001	< 0.0001	43	142	< 0.001	2.43	< 0.001	25	0.221	< 0.0001	0.001	2	< 0.004	60	6	< 0.005
T13	25/05/2026	659	< 0.1	7.31	78.0	147	460	0.2	< 0.01	< 0.001	< 0.0001	42	121	< 0.001	2.02	< 0.001	26	0.187	< 0.0001	0.001	2	< 0.004	45	5	< 0.005
T14	25/05/2026	1540	< 0.2	3.28	65.2	< 1	984	< 0.1	8.53	0.009	< 0.0001	17	401	0.052	52.4	< 0.001	42	0.899	< 0.0001	0.016	2	< 0.004	157	48	0.020

4.8.2.2.4 Surface Water Monitoring

Surface water monitoring was undertaken in accordance with the frequency described in the WMP. The results from surface water monitoring are provided in Table 4-27 (dams), Table 4-29 (Hotham River), Table 4-31 (Williams River) and Table 4-33 (Marradong Brook).

Table 4-27 Surface Water Field Monitoring Results Livestock Dams

Analyte		DO (%)	DO (mg/L)	EC (µS/cm)	pH	TDS Calc (mg/L)	Temperature - (°C)	TDS Field (mg/L)	Turbidity (NTU)
Location	**Date**								
D02	15/07/2025	101.78	9.28	2531.02	7.34	2030	17.06		0.00
	14/08/2025	112.76	9.99	1728.18	7.67	1250	18.62		0.00
	10/09/2025	107.02	9.80	1551.28	7.20		17.44		0.00
	22/10/2025	0.00	0.00	2124.49	7.75		19.16		9.26
	24/11/2025			2484.04	8.30		21.81	1714.28	14.50
	17/12/2025	119.36	8.90	4953.04	8.15		29.90	2939.41	1.79
	19/01/2026	*				2400			
	11/02/2026	*				2330			
	18/03/2026			5740.41	8.11		25.99	3652.51	1.81
	14/04/2026	110.56	8.93	4551.31	7.82		23.27	3059.15	3.44
	26/05/2026	91.74	8.85	4504.49	8.26		15.49	3576.72	1.97
	18/06/2026	101.44	8.69	2431.33	7.21		21.41	1695.41	0.26
D03	15/07/2025	102.20	10.03	3573.46	7.61	3210	13.35		8.57
	14/08/2025	107.74	9.93	2709.57	7.59	2030	16.47		6.63
	10/09/2025	103.61	9.49	2369.74	7.08		17.28		0.71
	22/10/2025	0.00	0.00	1684.86	7.35		17.81		9.64
	24/11/2025			1951.56	7.64		19.63	1413.15	2.60
	17/12/2025	141.26	11.06	3771.87	7.49		27.27	2350.58	0.05
	19/01/2026	*				3180			
	11/02/2026	*				3330			
	18/03/2026			3892.77	7.94		24.98	2526.79	0.67
	14/04/2026	152.25	12.57	3413.76	7.41		22.30	2339.75	1.78
	26/05/2026	104.40	10.25	2997.90	7.79		14.96	2410.77	0.00
	18/06/2026	86.25	8.07	3681.00	7.53		16.74	2838.39	1.74

*Missing data is due to a fault with the field Aquatroll, so only lab samples were taken

Regional surface water trigger values are calculated using all available historical monitoring data for each parameter at each monitoring location. The long-term mean and standard deviation are calculated from the dataset, and the trigger value is set at two standard deviations (2SD) above the mean. The dataset is updated annually to include newly collected monitoring results, and the mean and standard deviation are recalculated accordingly. This adaptive approach ensures that trigger values remain representative of current site conditions while accounting for natural variability in water quality.

For trigger assessments, downstream monitoring results are compared against the relevant upstream reference site where available. A trigger exceedance is identified when downstream water quality is poorer than upstream conditions and exceeds the calculated trigger threshold (mean + 2SD).

Hotham River

Table 4-28 Hotham River Trigger Values

	EC			TDS			Turbidity		
Location	**Mean**	**SDEV**	**Trigger**	**Mean**	**SDEV**	**Trigger**	**Mean**	**SDEV**	**Trigger**
S38	12577.07	4070.64	20718.35	8523.08	2002.75	12528.57	3.37	2.45	8.27

Table 4-28 presents the trigger values for turbidity, electrical conductivity (EC), and total dissolved solids (TDS) calculated for the upstream reference location (S38) using the standard deviation method. Results from the downstream monitoring locations (S15 and S07) were compared against these trigger values as shown in Table 4-29, which also includes monitoring from other river locations.

No trigger value exceedances were recorded for EC or TDS at either downstream location. Similarly, no threshold exceedances were detected for EC, TDS, or turbidity.

Turbidity exceeded the trigger value on two occasions at S07 and on three occasions at S15. However, all recorded turbidity results remained within the historical range observed at the upstream reference location (0-32.4 NTU). These elevated results are therefore considered to reflect natural variability within the Hotham River rather than an impact from site activities and are unlikely to indicate environmental harm.

Table 4-29 Surface Water Monitoring Results – Regional Surface Water Hotham River

Location	Date	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH (pH Unit)	Total Dissolved Solids (mg/L)	Turbidity (NTU)
S38 – Upstream	15/07/2025	107.9	11130.98	7.82	10800	4.09
	13/08/2025		13500	7.43	8780	7.4
	14/08/2025	143.63	9651.55	8.06		32.37
	10/09/2025	95.84	7000.69	7.41		0.42
	24/11/2025	*	9684.88	7.98	6842.19	3.23
	17/12/2025	67.81	17078.82	7.59	11127.34	0.04
	19/01/2026	#	#	#	#	#
	18/03/2026	#	#	#	#	#
	14/04/2026	#	#	#	#	#
	26/05/2026	75.73	7520.31	7.83	6358.38	0
	18/06/2026	93.53	12136.12	7.61	10373.48	1.88
S07- Downstream	15/07/2025	99.53	9787.13	7.59	9880	0
	13/08/2025		13200	7.53	8580	1.7
	26/08/2025	92.03	5634.26	6.59		6.06
	10/09/2025	107.25	7406.58	7.4		0.47
	22/10/2025	78.38	6488.11	7.29		11.86
	24/11/2025	*	7527.04	7.49	5538.58	10.01
	17/12/2025	121.08	15723.58	7.9	9250.52	0.86

Location	Date	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH (pH Unit)	Total Dissolved Solids (mg/L)	Turbidity (NTU)
	19/01/2026		12200	8.16	7930	0.4
	11/02/2026		10100	8.02	6560	0.6
	18/03/2026	*	8807.19	7.99	5746.53	2.57
	14/04/2026	97.79	9234.18	7.76	6280.7	2.55
	26/05/2026	82.95	7592.2	8	6441.26	0
	18/06/2026	90.17	10052.16	7.45	8571.47	0.53
S15 – Downstream	13/08/2025		11400	7.27	7410	1.6
	26/08/2025	85.78	5922.09	6.43		0
	10/09/2025	83.68	6288.68	6.98		0.36
	17/12/2025	121.99	13803.24	8.17	8463	11.65
	19/01/2026	99.69	12613.68	8.15	8156.92	1.65
	11/02/2026		11900	8.13	7740	2.4
	18/03/2026	*	11148.78	8	7172.88	10.79
	14/04/2026	98.32	8854.48	7.83	6126.5	3
	26/05/2026	94.12	7117.5	8.3	6103	10.28
	24/06/2026	96.47	9454.29	7.62	7610.12	2.09
S16	15/07/2025	97.44	8433.24	7.67	8260	0
	13/08/2025		10900	7.51	7080	1.9
	26/08/2025	92.48	4957.51	6.62		5.39
	10/09/2025	95.31	6084.04	7.17		2.28
	17/12/2025	97.87	12276.43	7.93	7763.05	20.51
	19/01/2026	95.54	11629.54	7.9	7502.42	106.17
	11/02/2026		10800	7.85	7020	1.4
	18/03/2026	*	10328.48	7.85	6512.86	1.24
	14/04/2026	95.68	9339.52	7.69	6660.24	2.76
	26/05/2026	88.94	8008.63	8.06	6821.51	12.7
	18/06/2026	95.95	7501.87	7.62	6423.02	6.42
S38	15/07/2025	107.9	11130.98	7.82	10800	4.09
	13/08/2025		13500	7.43	8780	7.4
	14/08/2025	143.63	9651.55	8.06		32.37
	10/09/2025	95.84	7000.69	7.41		0.42
	24/11/2025	*	9684.88	7.98	6842.19	3.23
	17/12/2025	67.81	17078.82	7.59	11127.34	0.04
	19/01/2026	#	#	#	#	#
	18/03/2026	#	#	#	#	#
	14/04/2026	#	#	#	#	#

Location	Date	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH (pH Unit)	Total Dissolved Solids (mg/L)	Turbidity (NTU)
	26/05/2026	75.73	7520.31	7.83	6358.38	0
	18/06/2026	93.53	12136.12	7.61	10373.48	1.88
S39	15/07/2025	101.27	10711.71	7.74		0
	13/08/2025		13200	7.69	8580	2.4
	14/08/2025	108.75	9231.99	7.7		4.98
	10/09/2025	103.25	7049.28	7.51		1.1
	22/10/2025	*	7661.09	7.32		103.67
	24/11/2025	*	9414.33	7.92	6654.33	4.64
	17/12/2025	123.28	19114.67	8.14	11454.37	0.35
	19/01/2026	Road closed due to fire – no sample taken				
	11/02/2026		18600	7.98	12100	3.8
	18/03/2026	*	18644.35	8.05	11968.41	0.53
	14/04/2026	128.74	13852.38	8.14	9289.04	1.46
	26/05/2026	81.63	9089.03	8.31	7754.88	0
	18/06/2026	94.17	12495.36	7.52	10494.01	0.94
S55	13/08/2025		409	7.42	266	75
	14/08/2025	96.91	290.16	7.66		83.65
	17/12/2025	No access due to fire				
	19/01/2026	No access due to fire				
	18/03/2026	#	#	#	#	#
	14/04/2026	#	#	#	#	#
	26/05/2026	#	#	#	#	#
	18/06/2026	#	#	#	#	#

*Faulty sensor or equipment
Location dry
Trigger level exceedance
Threshold level exceedance

Williams River

Table 4-30 Williams River Trigger Values

	EC			TDS			Turbidity		
Location	Mean	SDEV	Trigger	Mean	SDEV	Trigger	Mean	SDEV	Trigger
S50	9066	4050	17167	6800	2659	12119	10.7	12.77	36.24

Table 4-30 presents the trigger values for turbidity, electrical conductivity (EC), and total dissolved solids (TDS) calculated for the upstream reference location (S50) using the standard deviation method. Results from the downstream monitoring location (S18) were compared against these trigger values and are presented in Table 4-31 which also includes monitoring from other river locations.

No trigger value exceedances were recorded for EC or TDS at the downstream location. Similarly, no threshold exceedances were detected for EC, TDS, or turbidity.

Turbidity exceeded the trigger value on one occasion at S18 only which is unlikely to indicate environmental harm.

Table 4-31 Surface Water Monitoring Results – Regional Surface Water Williams River

Location	Date	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH (pH Unit)	Total Dissolved Solids (mg/L)	Turbidity (NTU)
S50 – Upstream	15/07/2025	113.02	9464.54	7.47	9230	14.1
	14/08/2025	107.31	7252.79	7.59	6560	22
	10/09/2025	135.74	5609.13	7.09		3.72
	22/10/2025	*	5316.43	7.38		13.61
	24/11/2025	*	6435.07	7.37	4834.35	12.7
	17/12/2025	73.15	12365.84	7.56	8422.63	15.77
	19/01/2026	#	#	#	#	#
	18/03/2026	#	#	#	#	#
	14/04/2026	#	#	#	#	#
	26/05/2026	84.89	9676.89	7.75	8322.28	1.72
	24/06/2026	Access blocked				
S18 – Downstream	15/07/2025	101.98	8128.2	7.67	7930	9.2
	14/08/2025	102.12	5858.66	7.63	5680	2.28
	22/10/2025	91.17	4797.47	7.54		14.46
	24/11/2025	*	5150.12	7.67	3872.1	6.26
	17/12/2025	94.02	11271.95	7.68	7.17	17.93
	19/01/2026	*	5160	8.04	3350	1.9
	11/02/2026	*	6610	7.55	4300	14
	18/03/2026	*	7540.33	7.1	5023.17	21.03
	14/04/2026	91.89	10629.09	7.37	7461.74	8.47
	26/05/2026	89.13	9033.68	7.85	7673.03	37.38
	18/06/2026	95.27	7201.62	7.57	6312.16	2.12
S16	15/07/2025	97.44	8433.24	7.67	8260	0
	13/08/2025	*	10900	7.51	7080	1.9
	26/08/2025	92.48	4957.51	6.62		5.39
	10/09/2025	95.31	6084.04	7.17		2.28
	17/12/2025	97.87	12276.43	7.93	7763.05	20.51
	19/01/2026	95.54	11629.54	7.9	7502.42	106.17
	11/02/2026	*	10800	7.85	7020	1.4
	18/03/2026	*	10328.48	7.85	6512.86	1.24
	14/04/2026	95.68	9339.52	7.69	6660.24	2.76

Location	Date	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH (pH Unit)	Total Dissolved Solids (mg/L)	Turbidity (NTU)
	26/05/2026	88.94	8008.63	8.06	6821.51	12.7
	18/06/2026	95.95	7501.87	7.62	6423.02	6.42
S21	15/07/2025	99.28	8186.34	7.6	8000	0.9
	14/08/2025	102.37	5472.78	7.65	5720	7.33
	10/09/2025	98.36	4853.47	7.44		1.18
	22/10/2025	*	4963.38	7.47		26.57
	24/11/2025	*	5650.81	7.63	4250.69	4.64
	17/12/2025	106.87	11923.77	7.86	7554.75	4.28
	19/01/2026	95.7	9876.51	8.02	6722.13	1.87
	11/02/2026	*	10600	7.61	6890	1.9
	18/03/2026	*	9580.4	7.8	6282.34	1.51
	14/04/2026	96.45	10244.02	7.33	7582.92	15.34
	26/05/2026	87.09	8879.63	7.89	7798.77	10.73
	18/06/2026	93.02	7411.48	7.43	6460.39	2.49
S24	15/07/2025	89.93	8503.05	6.93	8640	2.08
	14/08/2025	98.94	5508.76	7.55	5580	0.88
	10/09/2025	90.5	4479.59	6.82		0.51
	22/10/2025	*	4508.36	7.28		14.34
	24/11/2025	*	5544.49	6.66	4214.88	12.4
	17/12/2025	90.27	11877.84	6.97	7611.88	25.27
	19/01/2026	74.07	11701.64	6.87	8392.38	5.01
	18/03/2026	#	#	#	#	#
	14/04/2026	#	#	#	#	#
	26/05/2026	71.54	10195.13	7.59	8892.43	9.56
	18/06/2026	77.34	9105.7	6.85	7960.37	2.16
S31	13/08/2025	*	5950	7.16	3870	0.2
	18/03/2026	#	#	#	#	#
	14/04/2026	#	#	#	#	#
	26/05/2026	#	#	#	#	#
	18/06/2026	90.38	5573.92	6.85	4709.48	0.06
S32	15/07/2025	94.2	4951.04	6.95	4820	3.68
	13/08/2025	75.6	3162.86	6.23	3160	0
	10/09/2025	91.81	2449.74	6.74		*
	17/12/2025	#	#	#	#	#
	19/01/2026	#	#	#	#	#

Location	Date	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH (pH Unit)	Total Dissolved Solids (mg/L)	Turbidity (NTU)
	18/03/2026	#	#	#	#	#
	14/04/2026	#	#	#	#	#
	26/05/2026	#	#	#	#	#
	18/06/2026	101.48	4365.01	6.62	3686.33	1.04

*Faulty sensor or equipment
Location dry
Trigger level exceedance
Threshold level exceedance

Marradong Brook

Table 4-32 Marradong Brook Trigger Values

	EC			TDS			Turbidity		
Location	Mean	SDEV	Trigger	Mean	SDEV	Trigger	Mean	SDEV	Trigger
S43	5238	2022	9283	4211	920	5963	3.06	5.08	12.23

Table 4-32 presents the trigger values for turbidity, electrical conductivity (EC), and total dissolved solids (TDS) calculated for the upstream reference location (S43) using the standard deviation method. Results from the downstream monitoring location (S11) were compared against these trigger values and are presented in Table 4-33, which also includes monitoring from other river locations.

No trigger value exceedances were recorded for EC or turbidity at the downstream location. Similarly, no threshold exceedances were detected for EC, TDS, or turbidity.

TDS exceeded the trigger value on three occasions at S11. The upstream monitoring location is regularly dry. These trigger exceedances coincide with wetter weather and are unlikely to indicate environmental harm.

Table 4-33 Surface Water Monitoring Results – Regional Surface Water Marradong Brook

Location	Date	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH (pH Unit)	Total Dissolved Solids (mg/L)	Turbidity (NTU)
S43 – Upstream	15/07/2025	93.5	5540.31	6.6	5720	0
	14/08/2025	97.3	3266.42	7.4	2970	0
	10/09/2025	92.59	2550.62	6.78		1.57
	22/10/2025	*	2476.15	7.49		12.38
	24/11/2025	*	2996.81	7.72	2303.52	2.88
	17/12/2025	79.75	5424.81	7.49	3715.21	0.42
	19/01/2026	#	#	#	#	#
	18/03/2026	#	#	#	#	#
	14/04/2026	#	#	#	#	#
	26/05/2026	#	#	#	#	#
	18/06/2026	90.91	5134.6	6.61	4825.85	0.42
S11 – Downstream	15/07/2025	107.27	8527.7	7.47	8450	0
	14/08/2025	105.69	5993.94	7.5	5250	0

Location	Date	Dissolved Oxygen (%)	Electrical Conductivity (µS/cm)	pH (pH Unit)	Total Dissolved Solids (mg/L)	Turbidity (NTU)
	10/09/2025	100.49	4733.33	7.25		0.45
	22/10/2025	93.87	4485.61	7.33		12.32
	24/11/2025	*	5448.44	7.37	4244.99	3.46
	17/12/2025	99.02	6084.3	7.42	4018.12	9.32
	19/01/2026	*	5510	8.01	3580	3.1
	18/03/2026	*	4531.69	7.39	3130.89	3.3
	14/04/2026	105.14	7661.81	7.31	5657.53	4.07
	26/05/2026	76.87	7638.03	7.67	6656.74	0
	18/06/2026	94.97	8507.52	7.34	7347.66	0.14
S33	15/07/2025	100.1	8654.72	7.52	8780	0
	14/08/2025	104.18	6255.77	7.4	5680	0.42
	22/10/2025	81.87	4776.56	7.26		15.47
	24/11/2025	*	6102	7.31	4760.75	12.33
	17/12/2025	75.85	7493.65	7.54	3164.87	3.16
	19/01/2026	#	#	#	#	#
	18/03/2026	#	#	#	#	#
	14/04/2026	#	#	#	#	#
	26/05/2026	65.3	8720.52	6.93	7965.66	0.19
	18/06/2026	88.31	8760.5	7.31	7739.81	0.24
S42	13/08/2025	84.41	48.13	6.34	59	34.4
	10/09/2025	101.7	45.69	7.47		16.87
	19/01/2026	#	#	#	#	#
	18/03/2026	#	#	#	#	#
	14/04/2026	#	#	#	#	#
	26/05/2026	#	#	#	#	#
	18/06/2026	#	#	#	#	#

*Faulty sensor or equipment
Location dry
Trigger level exceedance
Threshold level exceedance

4.8.2.2.5 Recycled Water Monitoring Program

Recycled water monitoring was undertaken in accordance with the WMP. The results are provided in Table 4-34.

All wastewater generated through the maintenance workshop activities (such as heavy vehicle washing and workshop floor cleaning) is collected in a storage bund and fed to the BBM Anpress Unit for treatment. Once treated, it is transferred to the Karafil Dam. On the 18 January 2024 a notification was submitted to DWER notifying that the Anpress Unit was not operational due to mechanical issues. Worsley Alumina is investigating an option to relocate the entire workshop, and a licence amendment application will be submitted in due

course. Karafil Dam is lined with HDPE plastic to contain recycled and bore water which is used for dust suppression on haul roads. Despite the Anpress facility not functioning during the reporting period, the potentially contaminated water still passes through the unit on the way to the disposal point at the Karafil Dam. Water quality sampling continued in accordance with the BBM Licence, with monthly monitoring continuing at the Anpress unit, when access was not restricted, and at the Karafil Dam. This monitoring indicated the quality was very similar between the two locations and was within the required guidelines. Monitoring data from the Anpress unit is compared against the guidelines in the Water Quality Protection Note 68 (Mechanical Equipment Wash-down).

Table 4-34 Recycled Water Monitoring Results

		Total Recoverable Hydrocarbons µg/L Limit: 15000	Chromium mg/L Limit: 1	Copper mg/L Limit: 0.4	pH pH Unit Limit: 8.5 – 5.5	TDS Calculation mg/L Limit: 5000	Zinc mg/L Limit: 20
Location	**Date**						
ANP01	16/07/2025	220	< 0.001	0.010	7.70	519	0.135
	25/08/2025	< 100	< 0.001	0.002	7.64	523	0.023
	15/09/2025	430	< 0.001	0.012	7.77	508	0.084
	22/10/2025	< 100	< 0.001	0.002	7.26	462	0.026
	24/11/2025	< 100	< 0.001	0.011	7.49	532	0.220
	17/12/2025	< 100	< 0.001	0.001	7.77	554	0.014
	19/01/2026	680	< 0.001	< 0.001	8.01	543	0.018
	11/02/2026	< 100	< 0.001	0.001	7.77	532	0.030
	18/03/2026	< 100	< 0.001	0.005	7.94	517	0.473
	13/04/2026	200	< 0.001	0.011	8.08	546	0.172
	26/05/2026	< 100	< 0.001	0.002	7.84	541	0.049
	23/06/2026	< 100	< 0.001	0.002	7.80	527	0.011
KD01	16/07/2025	2420	< 0.001	< 0.001	7.32	734	< 0.005
	25/08/2025	1380	< 0.001	< 0.001	7.40	682	< 0.005
	15/09/2025	950	< 0.001	< 0.001	7.77	845	< 0.005
	22/10/2025	1090	< 0.001	< 0.001	7.19	852	< 0.005
	24/11/2025	300	< 0.001	< 0.001	7.20	910	< 0.005
	17/12/2025	460	< 0.001	< 0.001	7.54	1630	< 0.005
	19/01/2026	560	< 0.001	< 0.001	7.58	2020	< 0.005
	11/02/2026	1430	< 0.001	< 0.001	7.36	1820	< 0.005
	18/03/2026	620	< 0.001	< 0.001	7.76	1680	< 0.005
	13/04/2026	730	< 0.001	< 0.001	7.67	1440	0.008
	26/05/2026	6720	< 0.001	< 0.001	7.18	1180	< 0.005
	23/06/2026	3230	< 0.001	< 0.001	7.55	858	< 0.005

4.8.3 Refinery Water Reporting

The information below summarises data collected during the reporting period. The Annual Hydrological Report provides a comprehensive review of the water management at the Refinery and is available in Appendix 6: Water Monitoring Results and Reports. A summary of information included in the report is provided below.

During FY26, Worsley Alumina completed surface water and groundwater monitoring in accordance with Surface Water Licence SWL68041(5) and the approved WMP. Rainfall was slightly above the long-term average, while estimated evaporation was substantially higher, contributing to seasonal reductions in water availability. Freshwater Lake (FWL) abstraction totalled 1,273,075 kL, approximately half the FY25 volume and 24% of the annual licensed limit, with cumulative abstraction remaining below the licence-term limit. Lake levels recovered from the low levels recorded at the end of FY25 but peaked at approximately 231.7 mAHD in September 2025 before declining again during the drier months. Persistent, elevated turbidity remained the principal surface-water issue in the FWL and was attributed to a combination of upstream disturbance, ineffective sediment controls, low lake levels and mobilisation of exposed sediments. The turbidity treatment plant continued to enable environmental releases to the Augustus River; however, the total measured release of 53.9 ML was slightly below the DWER guideline volume of 56.8 ML, with releases initially below and later above guideline rates. Flows at the Augustus River Gauging Station were generally lower than FY25 and comparable with FY24. Other surface-water parameters were generally within historical ranges and relevant guideline values, apart from isolated dissolved oxygen and turbidity results, and no material deterioration in downstream water quality was identified.

Groundwater monitoring indicated generally stable background conditions, with localised elevated salinity, alkalinity and indicators of bauxite-liquor influence continuing near existing refinery water-management infrastructure, including the RCL, pipehead dams, BRDA5 and solar evaporation ponds. These impacts remained spatially associated with known sources, with no evidence reported of a broader emerging regional impact. Ongoing management includes maintaining hydraulic controls and recovery systems, improving sediment and turbidity controls, addressing monitoring-equipment reliability, and updating the numerical groundwater model to further assess plume behaviour and potential environmental risk.

During the reporting period, no native vegetation clearing occurred in the CBME (see Table 4-8) and therefore no clearing occurred within 30 m of the Augustus Riverbank in accordance with MS1237 condition B16-1(5) and EPBC 2019/8437 condition 30 or within 50 m of the FWL in accordance with the commitments in the WMP.

4.8.3.1 Refinery Water Monitoring

The WMP outlines trigger and threshold values to be monitored for much of the sampling regime, and these are outlined in Table 4-35 and Table 4-36. Where these triggers (Minimum or Maximum Action Levels) have been reached they are highlighted in yellow in section 4.8.3.2 and section 4.8.3.3. Surface water monitoring results are assessed against the trigger and threshold criteria contained within the WMP. The threshold criteria for pH, dissolved oxygen and electrical conductivity are based on the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZECC & ARMCANZ 2000) South-west Australia Upland River guideline values, consistent with the requirements of Condition S3 of Surface Water Licence SWL68041(5). Additional trigger and threshold criteria have been established within the WMP for other monitored analytes to support early detection of changes in surface water quality and guide operational management responses.

Table 4-35 Refinery Trigger and Threshold Levels (Regional Surface Water)

ANALYTE	UNIT	TRIGGER		THRESHOLD
		MINIMUM ACTION LEVEL	MAXIMUM ACTION LEVEL	SWL LEVELS*
Aluminium	mg/L		0.2	N/A
Chlorine	mg/L		400	N/A
Dissolved Oxygen	%	90		≥90%
Electrical Conductivity	µS/cm	120	300	120-300
Iron	mg/L		0.3	N/A
Manganese	mg/L		0.1	N/A
Nitrate as N	mg/L		0.7	N/A
Nitrate as NO3	mg/L		0.7	N/A
pH	pH unit	6.5	8	6.5-8
Sodium	mg/L		300	N/A
Sulfate	mg/L		400	N/A
Total Alkalinity as CaCO3	mg/L		500	N/A
Turbidity	NTU		20	N/A

*SWL68041(5) requires monitoring in accordance with the Australian & NZ Guidelines for Fresh & Marine WQ- Aquatic Ecosystems (SW Australia – Upland Rivers) (NZECC & ARMCANZ 2000)

Table 4-36 Refinery Trigger and Threshold Levels (Groundwater)

ANALYTE	UNIT	WARNING	TRIGGER	THRESHOLD
EC (PHDs, RCL and Refinery)	uS/cm	75th percentile	75th Percentile plus 10%	75th percentile plus 20%
Water Level (Background)	mbgl	N/A	N/A	N/A
Water Level (PHDs)	mbgl	95th percentile	Water level in monitoring bore becomes lower than PHD water level	Water level in monitoring bore is lower than PHD water level for >3 months
Water Level (RCL and SEPs)	mbgl	95th percentile	<4 mbgl	<3mbgl

4.8.3.2 Surface Water Monitoring

Water monitoring activities continued during the reporting period. Results are presented below in accordance with the monitoring requirements of the WMP.

The monitoring data for the ARGs location are provided in Table 4-37. The ARGs ceased flowing between 4 January 2026 and 25 April 2026. Results highlighted in red exceeded the threshold levels specified in the WMP and summarised in Table 4-35.

A visual inspection of the monitoring location identified a high concentration of tannins in the water. An investigation into the elevated results recorded over several months at ARGs found that the section of watercourse between the FWL dam wall and the ARGs monitoring location was dry from January to April 2026, which is unusual for this area. Following rainfall and the return of flow, a substantial flush of stagnant water and accumulated organic matter occurred. The release of tannins from this organic material is considered the most likely cause of the lower pH levels and reduced water quality observed during the reporting period.

These conditions are consistent with natural processes associated with the rewetting of previously dry river sections and are not considered to be related to Refinery activities. Potential impacts from Refinery operations would be expected to increase pH and result in more alkaline conditions, rather than the lower pH values recorded. Accordingly, the observed low pH is considered more likely to be attributable to natural processes

or, alternatively, a potential monitoring instrument fault. Specific conductivity was elevated during the May sampling round. Unfortunately, the field logger malfunctioned, preventing collection of an actual conductivity measurement. The threshold exceedance level for actual conductivity is 300 µS/cm. As actual conductivity values are typically lower than specific conductivity values, it is expected that the actual conductivity remained below the threshold level.

Although the permanent logger at ARGs was calibrated in accordance with the WMP, a fault is suspected due to the discrepancy between logger pH readings and field and laboratory sample results. Monitoring continued in accordance with the WMP, and the variation was reported in accordance with Ministerial Statement 1237 Condition D1-1.

Table 4-37 Monthly Surface Water Monitoring Results ARGs

DATE	Turbidity (NTU)	Lab Specific EC (µS/cm)	Field Actual EC (µS/cm)	Lab pH	Field pH	Chloride (mg/L)	Sodium (mg/L)
Jul-25	5.0	259	185	6.86	6.91	58	39
Aug-25	16.0	204	139	6.92	6.66	46	31
Sep-25	4.9	222	173	6.92	7.18	47	34
Oct-25	3.4	245	Field logger issue	7.29	7.08	54	36
Nov-25	4.6	231	210	7.37	6.74	50	34
Dec-25	2.3	236	237	7.48	6.79	46	28
Jan-26	Location dry during sampling periods						
Feb-26	Location dry during sampling periods						
Mar-26	Location dry during sampling periods						
Apr-26	Location dry during sampling periods						
May-26	2.0	334	Field logger issue	5.43	Field logger issue	55	37
Jun-26	12.0	297	Field logger issue	6.36	Field logger issue	60	39

Further information on the surface water monitoring program is available in the FY26 Refinery Hydrology Review Report in Appendix 6: Water Monitoring Results and Reports.

4.8.3.3 Groundwater monitoring

Worsley Alumina conducted groundwater monitoring from July 2025 to June 2026 across the refinery monitoring network, including background bores and bores positioned around the Pipe Head Dams, Refinery Catchment Lake, Bauxite Residue Disposal Areas and Solar Evaporation Ponds. The program comprised continuous telemetry monitoring of groundwater levels and electrical conductivity at instrumented bores, supported by scheduled field measurements and laboratory analysis of pH, electrical conductivity, major ions, alkalinity and indicators of bauxite-liquor influence, including oxalate. Additional bores were sampled during FY26 to improve delineation and assessment of identified groundwater-quality trends. Monitoring indicated generally stable background groundwater conditions, with localised elevated salinity, alkalinity and bauxite-liquor indicators continuing near known refinery water-management infrastructure. These effects remained spatially associated with existing source areas, with no evidence of a broader emerging regional groundwater impact. Monitoring reliability was affected at some locations by telemetry, sensor and bore-access issues; these were managed through field verification, data review and maintenance. Ongoing work includes maintaining hydraulic controls and recovery systems, improving monitoring reliability, and updating the

numerical groundwater model to assess plume behaviour and potential environmental risk. The Refinery Annual Hydrological Report, provided in Appendix 6: Water Monitoring Results and Reports, provides a full review of the water monitoring program and interpretation thereof.

4.8.3.3.1 Groundwater Results – Refinery Catchment Lake (RCL)

Groundwater monitoring identified no evidence of bauxite liquor contamination, with groundwater pH remaining below 12 at all monitoring locations. Monitoring continued to confirm a localised groundwater-affected zone at the RCL, comprising bores M111s, R73A, R73B, M114sR and RCL2s. The affected groundwater is characterised by elevated TDS, EC, sodium and sulphate concentrations, while pH remains slightly acidic to neutral, indicating that any seepage from the RCL has been substantially neutralised by the naturally acidic groundwater. Monitoring results for FY26 indicate the affected zone remains localised, with no evidence of significant expansion. Accordingly, the risk to the downgradient environment remains low. Ongoing assessment and management of the affected groundwater zone is being undertaken through the RCL work program.

4.8.3.3.2 Solar Evaporation Ponds (SEPs)

Groundwater monitoring during FY26 confirmed a localised affected groundwater zone associated with the SEPs, centred on bores NVM22s and NVM21z. NVM22s remained strongly affected, while NVM21z continued to show elevated TDS and metal concentrations, consistent with ongoing migration of affected groundwater from the shallow aquifer to the deeper zersatz zone. No evidence of further lateral expansion of the affected groundwater zone was identified during FY26. Historical releases of non-neutralised acidic wastewater remain the likely source of the impacts. While the current risk of off-lease groundwater contamination remains low, continued downward migration may increase longer-term risk to the fractured bedrock aquifer. Further hydrogeological investigations and groundwater modelling have commenced to improve understanding of contaminant migration pathways, assess long-term risks, and inform potential mitigation and remediation measures. The significance of oxalate detected at NVM21z remains under assessment and will be considered in the FY27 hydrology review.

4.8.3.4 Refinery Fresh Water Use

The Freshwater Lake (FWL) was constructed in 1983 to provide water to the Worsley Alumina bauxite processing plant and has a maximum capacity of 6,080 ML (WRM, 2005). The FWL is the primary source of fresh water, with the Refinery Catchment Lake providing a recycling / holding facility for process water which is recycled into the Bayer process. Worsley Alumina's operational water needs are typically met by these facilities.

In years of low rainfall and when the catchment lakes cannot supply the necessary water required to meet the Refinery's needs, Worsley Alumina has an agreement with Harvey Water to purchase and import water from Wellington Dam. This water is imported directly into the Refinery Catchment Lake due to high salinity levels which means it does not meet drinking water quality standards.

In 2021 Worsley Alumina completed construction of a permanent pump facility at Wellington Dam to minimise noise during import periods. Regrettably, in 2022 the facility was vandalised and remains inoperable until repairs are undertaken. Temporary diesel-powered shoreline pumps were used to source water during the last 3 years. Extensive repair works were conducted in 2026, and the electric pumps should be available again for use in future pumping campaigns. Pumping water from Wellington Dam is only undertaken when the Refinery is unable to meet water requirements using onsite sources.

Monitoring associated with the use of water from the FWL, and any alternative sources, is outlined in the Compliance Monitoring Report (Appendix 1: Compliance Monitoring Report).

FWL abstraction is recorded via an ultrasonic flow meter compliant with the *Rights in Water and Irrigation (Approved Meters) Order 2009* installed at the FWL. Consumption is reported to the DWER in accordance with

the Refinery Surface Water Licence (SWL68041 (5)). The water limits for the surface water licence are slightly different to what is required by MS1237, in that the SWL (Condition W4 I and (d)) allows for the total volume of water taken over the term of the licence to not exceed 26,000,000 kL (over 10 years) and for the total volume of water taken in any year to not exceed 5,400,000 kL. Which means the total volume is the same over a 10-year period, but the SWL allows a higher consumption over a given year, as long as the total is not exceeded in the 10 years. The SWL also requires an annual report be provided to DWER which includes monthly meter readings, monthly usage and annual volume of water drawn, this report is included in Appendix 6: Water Monitoring Results and Reports.

As outlined in Appendix 1: Compliance Monitoring Report the total water abstracted from the FWL in FY26 was 1.273 ML, which is below the limit included in table A1-1 of MS1237. In addition to the water from the FWL, Worsley Alumina sourced 3.03 GL of water from Wellington Dam.

4.8.3.5 Bauxite Residue Disposal Areas Monitoring & Management

Worsley Alumina's overarching approach to tailings management is to achieve stable and dense tailings. This involves understanding tailings behaviour, reducing water content at Tailings Storage Facilities (TSFs), and developing innovative construction techniques for these TSFs. In addition to Global Industry Standards on Tailing Management (GISTM), the approach is consistent with the Internation Council on Mining and Metals (ICMM) Tailings Governance Framework, Position Statement on Preventing Catastrophic Failure of TSFs, and the Australian National Committee on Large Dams (ANCOLD) guidelines. These requirements are embedded in the internal dam management standard.

Worsley Alumina has four active Bauxite Residue Disposal Areas (BRDA's) (TSF's), all of which are classified as 'Very High' consequence under the GISTM.

The BRDAs are constructed in a similar manner, incorporating various elements including:

- Groundwater underdrainage systems comprising a compacted clay floor with low permeability, and a gravel layer equipped with drainage pipework spanning the entire floor area to capture seepage effectively.
- Structural integrity formed by a starter dam and compacted clay perimeter walls. As the BRDA continues to be raised upstream, compacted clay fill is employed in successive layers. However, some facilities are designed as Downstream construction to facilitate Probable Maximum Precipitation events as per ANCOLD and other regulatory requirements.
- Surface water management with each BRDA equipped with an internal decant drainage system.
- Monitoring of the BRDAs incorporates a structured combination of visual inspections, monitoring of piezometers installed in embankments, scheduled InSAR and drone surveys, routine shear vane testing, and settlement monitoring.

In accordance with the ICMM Conformance Protocols, Worsley Alumina has completed a self-assessment of BRDAs 2, 4, 4X and 5 against the 15 Principles and all underlying Requirements of the Global Industry Standard on Tailings Management as published by the International Council of Mining and Metals. Worsley Alumina engaged KPMG to provide limited assurance over this self-assessment. KPMG's assurance opinion concluded:

> "We conducted our work in accordance with Australian Standard on Assurance Engagements ASAE 3000 Assurance Engagements other than Audits or Reviews of Historical Financial Information (Standard). In accordance with the Standards, we have:
>
> - used our professional judgement to plan and perform the engagement to obtain limited assurance that we are not aware of any material misstatements in the Information Subject to Assurance, whether due to fraud or error,
> - considered relevant South32 internal controls when designing our assurance procedures, however we do not express a conclusion on their effectiveness; and
> - ensured that the engagement team possess the appropriate knowledge, skills and professional

competencies.

- These principles align with the GISTM requirements to reduce both the probability and consequences of a TSF failure to as low as reasonably practical (ALARP)."

Groundwater monitoring is undertaken as outlined in section 4.8.3.3, with the Refinery Annual Hydrological Report, provided in Appendix 6: Water Monitoring Results and Reports, providing a full review of the water monitoring program including the monitoring associated with the BRDAs.

The outcomes for the BRDAs and pipehead dams from the Hydrological report can be summarised as follows:

Groundwater monitoring downgradient of the NPHD, SPHD and southern corner of BRDA5 remained broadly consistent with background groundwater quality during FY26. While some bores exhibited early warning indicators, including elevated Na/Cl ratios and EC, no consistent geochemical signature indicative of bauxite liquor impacts was observed. Potential impacts therefore remain inconclusive and, if present, are considered limited. Lower FWL levels reduced the effectiveness of this historical hydraulic control, increasing reliance on source controls, including maintenance of low PHD operating water levels and groundwater interception systems. Interception system repairs and operation were undertaken during FY26, with further assessment required to confirm long-term effectiveness under current hydraulic conditions. Overall, groundwater quality remained generally good, with no evidence of significant offsite migration and a very low risk to the downgradient environment.

4.8.3.5.1 BRDA Rehabilitation Activities

No BRDA rehabilitation activities were completed during FY26. Flora monitoring of the BRDA1 transects is scheduled to be undertaken by Mattiske Consulting in FY27 to assess rehabilitation progress and vegetation condition.

4.8.4 Port Water Monitoring

Groundwater and surface water monitoring at the Port was completed in accordance with the WMP. Water was discharged from the caustic tank bund three times during FY26. All discharge events met the required pH criteria, indicating no impact from caustic on the released water.

4.8.5 Carters Freshwater Mussel

4.8.5.1 Carters Freshwater Mussel Reporting

Monitoring for Carter's Freshwater Mussel (CFWM) during the reporting period was in accordance with the approved WMP. CFWM surveys were undertaken in the Augustus River (AR), Freshwater Lake (FWL) and surrounding water courses. No threshold criteria for CFWM mortality were exceeded during the reporting period (Stantec 2026, Appendix 4: Flora and Fauna Reports). A total of 230 CFWM were recorded during the 2025-26 Program, of which 78% were alive at the time of detection. Distribution was highly uneven across sites, indicating the influence of local environmental conditions and hydrological stressors.

Within the FWL, no live mussels were recorded at the shallow-water monitoring sites. All live individuals were restricted to deeper habitats surveyed during the March 2026 dive program, where 39 live mussels were recorded. This pattern is consistent with previous monitoring and indicates that the Freshwater Lake population remains small, spatially restricted, and potentially vulnerable. Population structure was dominated by large, older individuals, with little evidence of juvenile recruitment, suggesting an ageing population.

The AR supported 82 live mussels, with 65.6% of individuals detected alive and an overall mortality rate of approximately 34%. Relative to the 2021 baseline, mussel density declined by approximately 15.6%, remaining below the 20% trigger level defined within the WMP. Despite this reduction, density remains substantially higher than baseline conditions and evidence of recent recruitment was observed through the presence of smaller size classes. The AR population is therefore considered stable, with recent recruitment likely offsetting losses among larger adults.

Water and sediment quality monitoring for key analytes was undertaken at CFWM monitoring sites, with results presented in Table 4-39. Total suspended solids (TSS) in the FWL remained above the threshold level throughout FY26, which was attributed to a combination of upstream disturbance, ineffective sediment controls, low lake levels and mobilisation of exposed sediments. Aluminium concentrations exceeded threshold levels at sites FWL3, FWL4 and FWL5 during several months of the reporting period, while copper concentrations at AR2 exceeded the threshold in October 2025. Despite these exceedances, no CFWM mortality threshold criteria were exceeded during the reporting period. Site-specific guideline values will be developed once sufficient baseline data have been collected, replacing the current interim trigger and threshold levels.

Monitoring will continue in the next reporting period and will be used to establish a better understanding of the populations in both the FWL and the Augustus River and surrounds.

4.8.5.2 Carters Freshwater Mussel Monitoring

The WMP outlines trigger and threshold values to be monitored for much of the sampling regime, and these are outlined in Table 4-38. Monitoring results are presented in Table 4-41.

Table 4-38 Carters Freshwater Mussel Interim Trigger & Threshold Levels

ANALYTE	UNIT	INTERIM TRIGGER LEVEL	INTERIM THRESHOLD LEVEL
Water Quality			
TSS	mg/L	>8	>15
Salinity	g/L	>1.6	>3.0
Dissolved Metals:			
Mercury (Hg)	mg/L	>0.00006	>0.0006
Aluminium (Al)	mg/L	>0.027	>0.055
Cadmium (Cd)	mg/L	>0.00006	>0.0002
Copper (Cu)	mg/L	>0.001	>0.0014
Lead (Pb)	mg/L	>0.001	>0.034
Zinc (Zn)	mg/L	>0.0024	>0.008
Sediment			
Mercury (Hg)	mg/kg	0.15	1.0

Note: Site Specific Guideline Values (SSGVs) will be developed once 24 samples have been taken for each analyte. Once developed, trigger and threshold values will be replaced with the SSGVs.

Table 4-39 Carters Freshwater Mussel Monitoring Results

SITE	DATE	TSS	Salinity	Mercury	Aluminium	Cadmium	Copper	Lead	Zinc	Sediment – Mercury
FWL1	Jul-25	28	0.11	< 0.00004	0.028	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.06
	Aug-25	59	0.1	< 0.00004	0.017	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.01
	Sep-25	40	0.1	< 0.00004	0.022	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.01
	Oct-25	40	0.1	< 0.00004	0.031	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.03
	Nov-25	15	0.1	< 0.00004	0.023	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.05
	Dec-25	57	0.1	< 0.00004	0.017	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.04
	Jan-26	12	0.11	< 0.00004	0.011	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.04
	Feb-26	20	0.11	< 0.00004	0.012	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.07
	Mar-26	33	0.11	< 0.00004	0.015	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.04
	Apr-26	34	0.11	< 0.00004	0.021	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.04
	May-26	146	0.12	< 0.00004	0.011	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.05
	Jun-26	62	0.11	< 0.00004	0.034	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.02

SITE	DATE	TSS	Salinity	Mercury	Aluminium	Cadmium	Copper	Lead	Zinc	Sediment – Mercury
FWL2	Jul-25	26	0.11	< 0.00004	0.027	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.03
	Aug-25	56	0.10	< 0.00004	0.014	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.05
	Sep-25	30	0.10	< 0.00004	0.026	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.04
	Oct-25	42	0.10	< 0.00004	0.031	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.03
	Nov-25	16	0.09	< 0.00004	0.035	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.05
	Dec-25	52	0.10	< 0.00004	0.013	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.03
	Jan-26	16	0.11	< 0.00004	0.008	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.02
	Feb-26	55	0.11	< 0.00004	0.012	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.03
	Mar-26	11	0.11	< 0.00004	0.018	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.03
	Apr-26	11	0.11	< 0.00004	0.020	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.03
	May-26	688	0.11	< 0.00004	0.013	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.06
	Jun-26	60	0.11	< 0.00004	0.036	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.06
FWL3	Jul-25	546	0.06	< 0.00004	0.393	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.07
	Aug-25	1160	0.03	< 0.00004	0.346	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.08
	Sep-25	Location dry during sampling periods								*
	Oct-25									0.07
	Nov-25									0.03
	Dec-25									0.02
	Jan-26									0.03
	Feb-26									0.06
	Mar-26									0.05
	Apr-26									0.04
	May-26									*
	Jun-26	270	0.06	< 0.00004	0.476	< 0.00005	< 0.0005	0.0002	< 0.001	0.03
FWL4	Jul-25	48	0.11	< 0.00004	0.033	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.07
	Aug-25	72	0.1	< 0.00004	0.022	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.03
	Sep-25	39	0.1	< 0.00004	0.031	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.03
	Oct-25	20	0.09	< 0.00004	0.055	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.04
	Nov-25	26	0.1	< 0.00004	0.031	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.04
	Dec-25	154	0.1	< 0.00004	0.022	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.02
	Jan-26	13	0.11	< 0.00004	0.009	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.06
	Feb-26	8	0.12	< 0.00004	0.013	< 0.00005	< 0.0005	< 0.0001	0.002	0.04
	Mar-26	5	0.11	< 0.00004	0.014	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.06
	Apr-26	18	0.12	< 0.00004	0.022	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.04
	May-26	46	0.11	< 0.00004	0.01	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.07
	Jun-26	82	0.11	< 0.00004	0.02	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.04
FWL5	Jul-25	24	0.11	< 0.00004	0.034	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.06
	Aug-25	37	0.1	< 0.00004	0.022	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.03
	Sep-25	34	0.1	< 0.00004	0.024	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.04
	Oct-25	31	0.09	< 0.00004	0.058	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.02
	Nov-25	32	0.1	< 0.00004	0.034	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.03
	Dec-25	80	0.1	< 0.00004	0.017	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.01
	Jan-26	10	0.11	< 0.00004	0.008	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.03
	Feb-26	24	0.11	< 0.00004	0.011	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.06
	Mar-26	5	0.11	< 0.00004	0.011	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.04
	Apr-26	17	0.12	< 0.00004	0.017	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.06

SITE	DATE	TSS	Salinity	Mercury	Aluminium	Cadmium	Copper	Lead	Zinc	Sediment – Mercury
	May-26	15	0.12	< 0.00004	0.009	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.04
	Jun-26	83	0.1	< 0.00004	0.039	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.03
AR1	Jul-25	< 5	0.12	< 0.00004	0.018	< 0.00005	< 0.0005	< 0.0001	< 0.001	< 0.01
	Aug-25	< 5	0.12	< 0.00004	0.005	< 0.00005	< 0.0005	< 0.0001	< 0.001	< 0.01
	Sep-25	< 5	0.11	< 0.00004	< 0.005	< 0.00005	< 0.0005	< 0.0001	< 0.001	< 0.01
	Oct-25	< 5	0.12	< 0.00004	0.009	< 0.00005	< 0.0005	< 0.0001	0.003	0.05
	Nov-25	7	0.11	< 0.00004	< 0.005	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.04
	Dec-25	7	0.11	< 0.00004	< 0.005	< 0.00005	< 0.0005	< 0.0001	< 0.001	< 0.01
	Jan-26	Location dry during sampling periods								< 0.01
	Feb-26									0.05
	Mar-26									< 0.01
	Apr-26									*
	May-26									< 0.01
	Jun-26	6	0.14	<0.00004	0.028	< 0.00005	< 0.0005	< 0.0001	0.002	0.06
AR2	Jul-25	< 5	0.12	< 0.00004	0.024	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.03
	Aug-25	< 5	0.12	< 0.00004	0.005	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.01
	Sep-25	< 5	0.1	< 0.00004	0.009	< 0.00005	< 0.0005	< 0.0001	< 0.001	< 0.01
	Oct-25	< 5	0.12	< 0.00004	< 0.005	< 0.00005	0.0019	< 0.0001	< 0.001	0.02
	Nov-25	< 5	0.11	< 0.00004	< 0.005	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.03
	Dec-25	< 5	0.11	< 0.00004	< 0.005	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.01
	Jan-26	12	0.16	< 0.00004	< 0.005	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.02
	Feb-26	Location dry during sampling periods								0.04
	Mar-26									0.03
	Apr-26	< 5	0.14	< 0.00004	0.014	< 0.00005	0.0013	< 0.001	0.016	0.04
	May-26	< 5	0.13	< 0.00004	0.007	< 0.00005	< 0.0005	< 0.001	0.003	0.02
	Jun-26	5	0.13	< 0.00004	0.020	< 0.00005	< 0.0005	< 0.0001	0.002	0.05
AR3	Jul-25	< 5	0.13	< 0.00004	0.020	< 0.00005	0.0007	< 0.0001	0.004	< 0.01
	Aug-25	< 5	0.10	< 0.00004	0.181	< 0.00005	0.0005	< 0.0001	0.002	< 0.01
	Sep-25	7	0.10	< 0.00004	0.133	< 0.00005	0.0007	< 0.0001	0.002	< 0.01
	Oct-25	< 5	0.12	< 0.00004	0.015	< 0.00005	< 0.0005	< 0.0001	0.003	0.03
	Nov-25	< 5	0.11	< 0.00004	0.012	< 0.00005	< 0.0005	< 0.0001	0.002	< 0.01
	Dec-25	6	0.11	< 0.00004	0.008	< 0.00005	< 0.0005	< 0.0001	0.001	< 0.01
	Jan-26	Location dry during sampling periods								< 0.01
	Feb-26									0.03
	Mar-26									*
	Apr-26									0.03
	May-26									*
	Jun-26	5	0.14	< 0.00004	0.035	< 0.00005	< 0.0005	< 0.0001	0.004	0.01

*	Access restricted due to unsafe conditions
	Trigger Level Exceedance
	Threshold level Exceedance

During the reporting period the FWL level was extremely low making it difficult to access some of the monitoring points to take sufficient water samples due to unsafe access conditions. Exceedances have been reported to DWER as required. As noted in the WMP, SSGV will be established during FY27 once 24 samples have been taken.

4.9 TERRESTRIAL ENVIRONMENTAL QUALITY

4.9.1 Construction Environmental Management Plan

MS1237 condition B17-3 requires Worsley Alumina to update and submit the Construction Environmental Management Plan (CEMP version 2.0) and to not commence ground disturbing activities within the proposal area (MS1237 condition C1-1) until the CEO of DWER has confirmed in writing that the management plan met the requirements of the relevant conditions or as otherwise agreed. Confirmation that CEMP version 2.0 met the requirements of the relevant conditions was received from DWER on 11 February 2025. A copy of this letter was provided as an appendix in the 2025 CAR. In accordance with MS1237 condition 2-6, Version 2.0 of the CEMP was made publicly available on the Worsley Alumina website (Worsley Alumina – Documents).

No changes were made to the plan during the reporting period, including no minor revisions in accordance with MS1237 conditions C2-3 – C2-5.

Table 4-40 and Table 4-41 provide Worsley Alumina's performance against the CEMP's outcome-based provisions and objective based provisions, respectively.

4.9.2 Acid Sulfate Soils – Nullaga Project

MS1237 condition B17-2(1) requires that no acid sulfate soil contamination occur within the PAA or elsewhere attributable to the Revised Proposal. As outlined in the CEMP, there are Potential Acid Sulfate Soils (PASS) in the footprint of the river/stream crossings which were approved under the *Rights in Water and Irrigation Act 1916* (WA). These crossings are included in the CEMP and management activities to prevent Acid Sulfate Soil (ASS) contamination are required to be implemented during construction of the bridges. As construction activities for the crossings/bridges commenced during the reporting period the requirements of the Acid Sulfate Soil Management Plan (ASSMP), which forms an appendix to the CEMP, commenced.

Figure 4-1 outlines the location of disturbance areas for the reporting period. Earthworks to support the bridge construction at Dilyans Crossing (Hotham River) and the culvert construction at Thirty-four Mile Brook were undertaken during the reporting period.

Construction activities commenced in late September 2025 starting with early works for water management and the movement of PASS being undertaken for the southern area of works (Hotham River) between October 2025 and January 2026 and the northern area of works (Hotham River & Thirty-four Mile Brook) between November 2025 and March 2026. In accordance with the ASSMP excavated material was moved to designed containment cells for assessment prior to disposal. Assessment of the excavation material was undertaken in accordance with the ASSMP, and treatment applied as required. The Acid Sulfate Soil & Water Management Register is provided in Appendix 10: CEMP – Nullaga Project Information.

Seepage Management

Seepage management activities occurred at the Hotham River crossing construction areas at both bridge abutments during the reporting period, with extracted water directed to existing sediment basin infrastructure. Abutment A (north) occurred between 3 April and 13 May 2026. The volume of water was relatively low flow with a total estimated volume of 3,485 m^3, observation of inflows suggest the water was mostly originating from just below the ground surface. Abutment B (south) management of seepage occurred between 19 February and 20 March 2026, again at a very low flow, with an estimated total flow of 600 m^3. Both water collection sumps were located outside of the mapped risk area for ASS. The water from the sumps was discharged into basins located more than 100 m from the surface water and allowed to infiltrate into the surrounding ground over time.

Excavation and construction work associated with soil movement in the ASSMP was limited to the bridge construction works. These works have now been completed, meaning the ASSMP components of the CEMP

have effectively been completed. If further works are required in PASS locations, an updated ASSMP and consequently an updated CEMP will be required.

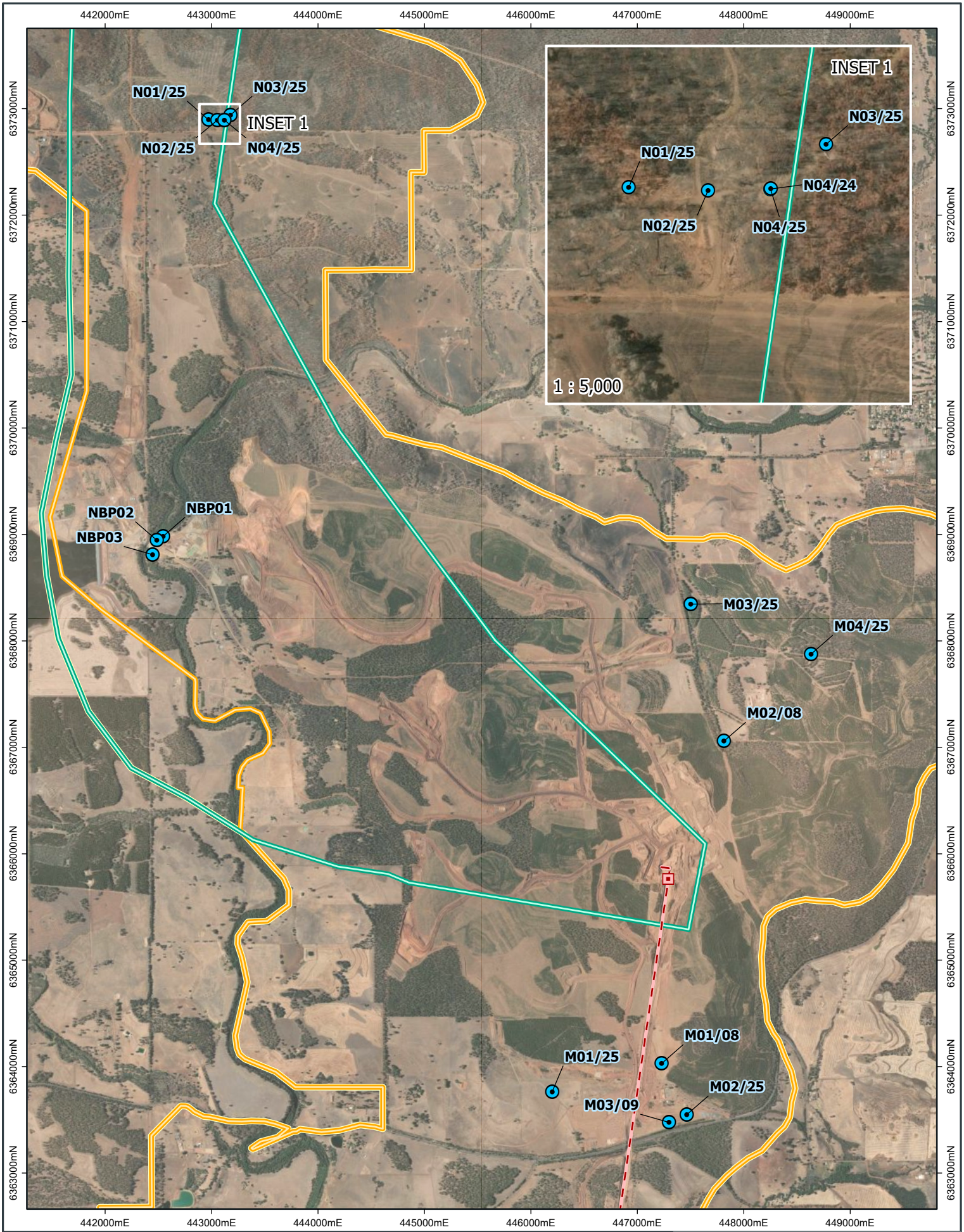
4.9.3 Water Sampling – Nullaga Project

The primary purpose of water monitoring for the Nullaga project is to ensure no impact to the environment as a result of construction related activities. The monitoring locations applicable to this program are temporary and will only be monitored for the duration of the construction project, including post construction monitoring. The monitoring locations are shown on Figure 4-6.

Surface water sampling was undertaken for the Nullaga Project at four locations (S40, S41, S41A & S41B) prior to commencement of operations and is continuing. Review of monitoring results prior to the commencement of activities and during activities showed no significant difference in baseline information collected for hydrocarbons, pH, EC and major metals prior to operations, during operations or at the completion of major construction activities during the reporting period. In addition, there was no significant difference observed between water quality conditions for upstream (S40) and downstream monitoring locations (S41). Three samples (April – June) were not sent for laboratory testing.

Groundwater monitoring at three locations (NPB01-03) commenced prior to construction and monitoring will continue for six months post construction. As with the surface water monitoring program, comparisons were made between upstream (NPB01) and downstream (NPB02) locations with no significant differences identified, noting there were two samples for NPB01 that appear to have a reporting error in relation to EC.

Monitoring results are provided in Appendix 10: CEMP – Nullaga Project Information.



LEGEND

- Primary Crusher
- Overland Conveyor

Development Envelopes [MS1237]

- BTC (Bauxite Transport Corridor)
- WMDE (Worsley Mining Development Envelope)
- PAA (Primary Assessment Area)

- Water Monitoring Bore

Projected: GDA2020 MGA Zone 50
Datum: GDA2020
0 1.2 Kilometres

N

SOUTH32 Worsley Alumina Pty Ltd

Nullaga Water Monitoring Locations

FIGURE **4-6**

MS1237 Compliance Assessment Report FY26
EPBC 2019/8437 Annual Compliance Report FY26

Date: 29 September 2026 | Author: dlimm1

Path: C:\Users\dlimm1\South32\Worsley - ERD Development - Documents\GIS\Requests\0124_Worsley_ERD\FIGURES\CAR_2026\CAR_FY26_Fig4-6_NullagaWaterMonitoringLocations_A4P.aprx

Table 4-40 Performance Against CEMP Outcome Based Provisions

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
1. Ensure no acid sulfate soil contamination within the PAA or elsewhere attributable to the proposal	Dewatering to support construction activities where PASS present	During dewatering activities Total titratable acidity <40mg/L, pH>6			
				Treatment and monitoring of soils and water removed during excavations was completed in accordance with the requirements of the ASSMP (see Appendix 10: CEMP – Nullaga Project Information and section 4.9.2). Minimal seepage management was required during construction; the seepage sumps were located outside of the risk area for ASS therefore no monitoring was undertaken for the dewatering.	Y
		During dewatering activities, Total titratable acidity <40mg/L, pH in range 4 to 6			
				Treatment and monitoring of soils and water removed during excavations was completed in accordance with the requirements of the ASSMP (see Appendix 10: CEMP – Nullaga Project Information and section 4.9.2). Minimal seepage management was required during construction; the seepage sumps were located outside of the risk area for ASS therefore no monitoring was undertaken for the dewatering.	Y
		During dewatering activities, Total titratable acidity 40mg/L to 100mg/L, pH >6			
				Treatment and monitoring of soils and water removed during excavations was completed in accordance with the requirements of the ASSMP (see Appendix 10: CEMP – Nullaga Project Information and section 4.9.2). Minimal seepage management was required during construction; the seepage sumps were located outside of the risk area for ASS therefore no monitoring was undertaken for the dewatering.	Y
		During dewatering activities, Total titratable acidity 40mg/L to 100mg/L, pH in range 4 to 6			
				Treatment and monitoring of soils and water removed during excavations was completed in accordance with the requirements of the ASSMP (see Appendix 10: CEMP – Nullaga Project Information and section 4.9.2). Minimal seepage management was required during construction; the seepage sumps were located outside of the risk area for ASS therefore no monitoring was undertaken for the dewatering.	Y
			Total titratable acidity >100mg/L or pH<4 or total alkalinity <30mg/L		
				Treatment and monitoring of soils and water removed during excavations was completed in accordance with the requirements of the ASSMP (see Appendix 10: CEMP – Nullaga Project Information and section 4.9.2). Minimal seepage management was required during construction; the seepage sumps were located outside of the risk area for ASS therefore no monitoring was undertaken for the dewatering.	Y
2. Ensure soil compaction and soil quality is remediated as part of rehabilitation and mine closure activities, in line with timing requirements outlined in condition B14 & B2;	Rehabilitation of areas cleared for infrastructure, roads or access is not scheduled for rehabilitation within 12 months of that infrastructure road or access no longer being required	Rehabilitation of areas cleared for infrastructure, roads or access has not commenced rehabilitation within 18 months of that infrastructure road or access no longer being required			
				No areas of infrastructure, roads, or access have been identified as not being required during the reporting period.	Y

Table 4-41 Performance Against CEMP Objective Based Provisions

OBJECTIVE	PERFORMANCE INDICATOR / STANDARD	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
1. Ensure no acid sulfate soil contamination within the PAA or elsewhere attributable to the proposal;	Minimise the risk of exposure of PASS	• Mining footprint to avoid low-lying topographical areas in the vicinity of rivers and creeks. • Stream buffers must be applied to all rivers in accordance with the FMP (CPCWA, 2023) and Water Quality Protection Note 6: Vegetation Buffers to Sensitive Water Resources (Department of Water, 2006). • Acid Sulphate / Potentially Acid Sulphate soil monitoring as part of risk management in disturbance areas • ASSMP in place to outline the identification, sampling and management of any PASS expected to be encountered for the construction of river crossings.	Stream buffers have been included in accordance with the FVMP. Acid sulfate soil monitoring was ongoing during the construction of the river crossings. Potentially contaminated materials were stored in containment bunds and managed in accordance with the ASSMP (Section 4.9.2). Acid Sulfate Soils Management Plan was in place, which is an appendix to the CEMP and is provided publicly on South32's website (Worsley Alumina – Documents).	Y
	Minimise PASS disturbance	• All confirmed and suspected ASS materials (i.e. grey to dark grey soils containing organic matter below the water table) encountered during excavations will be transported by truck to the onsite ASS treatment facility or an offsite facility licensed to accept ASS. • Any ASS materials that cannot be transported within the short-term period detailed above must be stockpiled on a suitably prepared storage area and the following additional management measures shall be followed: • Stockpiles are to be contained by bunds with stormwater run-off directed to a collection sump. Bunds are to be constructed from low permeability materials that are not ASS; • A guard layer of fine ground agricultural lime of at least 10 kg/m2 will be spread across the soil surface prior to placement of the stockpile; • The surface area of the stockpile will be minimised by shaping and possibly capping or covering to prevent moisture loss and rainfall entry; and • Temporary or bunded, short term stockpiling will not be permitted within 100 m of a waterway.	Potentially contaminated materials were stored in containment bunds and managed in accordance with the ASSMP (Section 4.9.2 and Appendix 10: CEMP – Nullaga Project Information). No evidence of ASS was found in the excavated material; therefore no treatment was required. All cells were purpose built in accordance with the ASSMP and were located greater than 100m from the waterway.	Y
	Minimise impacts to surface water systems	• Given the close proximity of the Hotham River monitoring of surface water quality shall be conducted during excavation in ASS areas.	Surface water monitoring occurred at least monthly until March 2026. April to June samples were not collected however excavation was completed before the end of March 2026. (Section 4.9.3 and Appendix 10: CEMP – Nullaga Project Information).	Y
3. Ensure soil compaction and soil quality is remediated as part of rehabilitation and mine closure activities, in line with timing requirements outlined in condition B14 & B2	Minimise the risk of soil compaction	• Following completion of mining operations, rehabilitation activities are planned and implemented and checked in accordance with site specific procedures and standards for each area	Rehabilitation is ongoing, see the Annual Rehabilitation Plan, provided as an appendix to this CAR.	Y
	Management of Erosion	• Comply with the requirements of the Rehabilitation Performance Report (condition B14-2) Annual Rehabilitation Management Plan (Condition 14-3) for final landform structure	Rehabilitation Performance report was submitted before 20 Dec 2025. The Annual Rehabilitation Management Plan will cover reporting for mining operational rehabilitation activities.	Y
	Minimise the risk of soil contamination (other than PASS)	• Chemicals, hydrocarbons and other environmentally hazardous materials stored and handled in accordance with Dangerous Goods Safety Act 2004 and associated regulations. • Construction of fuel containment infrastructure in accordance with Australian Standards. • All spills will be managed in accordance with site procedures. • Collection and treatment of potentially contaminated stormwater run-off from workshops and hydrocarbon storage areas. • Contaminated soils at BBM to be placed in lined hydrocarbon storage area until removal from site by a licensed contractor.	No new permanent fuel storage areas have been established during the reporting period. Weekly inspections were undertaken during the Nullaga construction project including assessment of storage of hazardous substances on site – no incidents have been reported that required the clean up or reorganisation of hazardous substances as a result of the inspections.	Y
	Management of Sedimentation	• Apply stream buffers in accordance with the FMP (CPCWA, 2023) and Water Quality Protection Note 6: (Department of Water, 2006). • Manage stream buffers. • Installation of water management infrastructure (sumps, drainage lines etc.) for all operational areas including haul roads in accordance with site procedures and standards. • Obtain Bed and Banks permits under the RIWI Act for any disturbance required to stream beds and banks. • Reshape disturbed areas to match surrounding contours during progressive rehabilitation to minimise impacts on surface water drainage patterns.	Stream buffers are assigned and managed as protected areas, in accordance with the FVMP. Sumps are installed for haul roads in accordance with site design parameters. During works associated with the construction of the bridge over the Hotham River, and the culverts at 34 Mile Brook, the major contractor initiated an Erosion and Sediment control plan which outlined the management of the activities in the vicinity of the water bodies. Beds and banks permits were obtained to support activities (Permit: PMB211532(1) dated 4 March 2025-31 March 2027 (Culverts to be constructed at Thirty-Four Mile Brook & Wattle Hollow Brook) and Permit: PMB211533(1) dated 4 March 2025 – 31 March 2027(Construct a Bridge over Hotham River)). The annual rehabilitation management plan will cover reporting for mining operational rehabilitation activities.	Y

4.9.4 Secondary Salinity

The risk of salt release associated with the Worsley Project is primarily linked to the mobilisation of salts resulting from changes in surface water and groundwater conditions within mining areas. This risk is influenced by land clearing activities and the timing of rehabilitation. Worsley Alumina also undertakes monitoring of the Augustus River downstream of the Worsley Refinery.

As such the risk and management of salt release is included in the WMP and reporting is aligned with the sections of the CAR that relate to Water Management. Worsley Alumina notes that MS1237 condition B16-1(3) requires:

*no **adverse impacts** to the hydrological regimes and water quality of the Hotham River, Marradong Brook, Augustus River, Murray River, Williams River and Thirty-Four Mile Brook attributable to the proposal*

The requirement of this condition includes any potential impacts associated with increases to salinity (salt release) attributable to the project as salt release represents a potential adverse impact on the listed environmental values (including protected matters).

Please see a summary below of matters reported in relation to salt release:

BBM

- Table 4-23 and Table 4-24 outline the groundwater monitoring undertaken at BBM for the reporting period in accordance with the requirements of the WMP. It can be seen from the tables that only one bore (A04) recorded a trigger level exceedance. See section 4.8.2.2.2 for a summary of the Triennial Aquifer Review for further details on the investigation for this bore.
- Section 4.8.2.2.4 includes a summary for the Hotham River, Williams River and Marradong Brook monitoring results and outcomes.
- Appendix 6: Water Monitoring Results and Reports includes the Triennial Aquifer Review for the mine for the period July 2023 to June 2026. See section 4.8.2.2.2 for a summary of the Triennial Aquifer Review.

Refinery

- Section 4.8.3.1 outlines the findings for water monitoring programs at the Refinery. Section 4.8.3.2 (Table 4-37) provides the results for monitoring for the 2025-26 monitoring year at ARGs which is downstream of the Refinery FWL and assesses the water quality of the Augustus River. EC results were recorded within the limits prescribed in the approved WMP for all months except May 2026, which occurred following flows after a sustained dry period (see section 4.8.3.2 for further details).
- Appendix 6: Water Monitoring Results and Reports includes the Refinery Annual Hydrological Report, which provides a comprehensive review of groundwater monitoring undertaken during FY26. Section 4.8.3.3 includes a summary for the Refinery.

Worsley Alumina reviewed the monitoring results and recommendations provided by Groundwater Resource Management and identified further work to support ongoing management of the localised affected groundwater zones at the RCL and SEPs. This work includes maintaining hydraulic controls and recovery systems, continuing targeted monitoring and investigations, and updating the numerical groundwater model to further assess plume behaviour and potential environmental risk. These are outlined, with a status update in Table 4-42.

Table 4-42 Refinery Water Related Actions and Status

Component	Update	Status
Further delineation of the affected groundwater zone at both the RCL and	Additional groundwater bores were incorporated into the monitoring rounds.	Closed

Component	Update	Status
SEP.	These monitoring bores were included in the report for FY26 and will continue to be included.	
Characterisation of the contamination sources within the SEP and RCL.	A comprehensive chemical analysis of the liquor stored within the RCL and within each of the SEP cells have been undertaken in FY24, which will inform aspects to the groundwater model development. No further expansion of the groundwater quality program is recommended at this stage. The modelling will provide the technical basis for assessing longer-term contaminant migration and selecting appropriate groundwater management and remediation measures.	Closed
Characterisation of the groundwater conditions at the refinery (around M114s).	The groundwater conditions at the refinery are better characterised, given two new monitoring bores, M114sR and M117sR (one was dry). Deeper monitoring bores indicated that the groundwater is unaffected.	Closed
Confirmation of groundwater gradients between the SEP/RCL and Harris catchment.	The initial assessment indicates that groundwater hydraulic gradient at the SEP and RCL facilities are in a westward direction. Therefore, groundwater cannot flow in an eastward direction, hence there are no anticipated impacts on the Harris catchment. The groundwater gradients were updated based on the measurements of 81 monitoring bores across the site undertaken in September 2023, which confirmed the westward flow of groundwater. Groundwater level measurements carried out during the FY25 period confirmed the westward movement of groundwater.	Closed
Updated groundwater assessment at the RCL and SEP.	To be undertaken now additional monitoring bores are established, and additional sampling was undertaken in FY24 & FY25.	Ongoing
Update of the numerical groundwater model to assess the migration of affected groundwater.	The proposed schedule for the groundwater model development is during the FY26 hydrological review.	Ongoing
Initial assessment of remediation options of the affected groundwater at the SEP and RCL	Can be reviewed once groundwater assessment is completed.	Ongoing
SEP monitoring	Include oxalate to routine laboratory analytical suite for SEP monitoring in FY27. Include dissolved organic carbon (DOC) to the monitoring for SEP bores to provide supporting information on dissolved organic loading and potential geochemical effects associated with oxalate-bearing groundwater.	Ongoing

4.10 SOCIAL SURROUNDS (ABORIGINAL HERITAGE) – PAA

4.10.1 Heritage Surveys

MS1237 condition B18-3 requires Worsley Alumina to identify Aboriginal heritage in consultation with the Gnaala Karla Booja Aboriginal Corporation (GKBAC) for all areas proposed to be cleared or impacted prior to any ground disturbing activities of the area.

On 21 August 2024 Worsley Alumina entered into a Noongar Standard Heritage Agreement (NSHA) with the GKBAC. This agreement is still in effect, and Worsley Alumina engages regularly with GKB Impact (GKBI) which is a subsidiary of GKBAC and serves as the nominated Aboriginal Heritage Service Provider for the Gnaala Karla Booja region.

All of Worsley Alumina's ground disturbance for the reporting period occurred after Aboriginal heritage surveys were conducted. The survey areas have been previously reported in the Worsley Mine Expansion Referral Supporting Document (Table 23, Figure 12) and Table 4-33 in the Revised Proposal Response to Submissions document March 2024 (Version 3).

Worsley is currently undertaking heritage surveys in the Extended Mining Areas. As the survey areas are quite large and require more than one field visit, the heritage survey reports will not be finalised until the completion of archaeological and ethnographic fieldwork for each area.

4.10.2 Aboriginal Heritage Sites

MS1237 conditions B18-1(1) and B18-2(1) require Worsley Alumina to avoid where possible and otherwise minimise adverse impacts to Aboriginal heritage within and around the PAA and to ensure no disturbance to Aboriginal heritage sites within the PAA without approval under the *Aboriginal Heritage Act 1972 (WA)* and has involved reasonable steps to consult with the GKBAC. MS1237 condition B18-1(2) requires Worsley Alumina to, subject to reasonable health and safety requirements, ensure the implementation of the proposal achieves no interruption of ongoing land access used for traditional use or custom by the GKBAC.

A comparison of Worsley Alumina's clearing and rehabilitation datasets with the Aboriginal heritage sites within the PAA via the Aboriginal Cultural Heritage Inquiry System of the Department of Planning, Lands and Heritage (DPLH) indicates two Registered Aboriginal heritage sites were disturbed which was conducted under the following Ministerial Consents:

- Mt Saddleback (Mokine) Site ID 17214. This disturbance was authorised under Ministerial Consents 34-65280 and 34-67837 (Appendix 9: Heritage Documents).
- Hotham River Site ID 27935 and the northern tributary colloquially known as Thirty-Four Mile Brook. This disturbance was authorised under Ministerial Consent MIN-2023-1062 (Appendix 9: Heritage Documents).

The DPLH search also identified a Lodged heritage site, Archer's Cave Site ID 20216, within the clearing and rehabilitation dataset. However, DPLH has confirmed with Worsley Alumina that the actual boundary of this site does not fall within the area of works the subject of this reporting period.

During the reporting period, Worsley Alumina did not receive any requests from the GKBAC or GKBI for access to land utilised for traditional use or custom in accordance with MS1237 condition B18-1(2).

4.10.3 Consultation – Gnaala Karla Booja Aboriginal Corporation

MS1237 conditions B18-2(2) and B18-4 require Worsley Alumina's ongoing consultation and engagement with GKBAC. As per the obligations under the NSHA, Worsley Alumina has submitted Activity Notices for further Aboriginal heritage surveys to be conducted, and these surveys are currently being arranged by GKBI as the Aboriginal Heritage Service Provider.

Since 8 May 2024, Worsley Alumina has met regularly with GKBAC representatives. Standing agenda items include status updates on heritage surveys convened by Worsley Alumina and those convened by GKBAC, and subsequently, GKBI as the Aboriginal Heritage Service Provider under the NSHA. At the end of each meeting, Worsley Alumina provides the minutes to GKBAC/GKBI for their review and records. During this reporting period, 12 meetings were convened with copies of all minutes emailed to participants.

Appropriate engagement with the GKBAC regarding the BBM Closure Plan is required to occur at least three months prior to submission to the CEO (of DWER) (MS1238 condition B18-4). On 28 July 2026, Worsley Alumina presented the 10-Year Plan and Closure Plan to representatives from GKBAC. A hardcopy of the 10-Year Plan was provided after the meeting, and a copy of the Closure Plan was uploaded to a Secure File Transfer Folder for review and comments by GKBAC.

4.11 REHABILITATION

4.11.1 Rehabilitation, Protected Areas and Ecological Linkages

The monitoring protocols for addressing condition B2-1 are outlined in Appendix 1: Compliance Monitoring Report in accordance with MS1237 condition C3.

Condition B2-1(1) requires Worsley Alumina to ensure that the hectares of rehabilitation of areas mined is equal to or greater than the hectares of clearing of native vegetation for mining in any three financial year period commencing after the date of MS1237. Reporting for this condition will commence in FY28 and will include three full financial year periods since the date of MS1237 and will be included in Table 4-43.

Table 4-43 Native Vegetation Cleared for Mining and Rehabilitation of Areas Mined

YEAR	CLEARED (ha)	REHABILITATED (ha)
2025		
2026		
2027		
TOTAL		

In accordance with condition B2-1 (2) no areas of infrastructure have been identified as no longer being required. This will continue to be reviewed on an annual basis, and areas no longer required will be included in this section in future CARs.

Condition B2-1(3) requires Worsley Alumina to ensure the rehabilitation deficit for mining areas within the PAA is a maximum of 35% from 1 July 2033 unless Worsley Alumina receives approval from the DWER CEO to increase the rehabilitation deficit for a temporary period for no more than two (2) years. Reporting against this requirement is not required until 2033.

Conditions B2-1(4) – (6) are included in the reporting for the FVMP with outcomes for the reporting year outlined in Figure 4-4 (clearing in proximity to protected areas – condition B2-1(4) and B2-1(6) and ecological linkages – condition B2-1(5)). Figure 4-4 and the GIS information provided in Appendix 2: GIS Information shows a minor overlap with one Protected Area representing ~ 0.01 ha. The area of overlap occurred as a result of maintenance of existing infrastructure (Ashcroft Road, which is a public road) located within the Protected Area. This small area of clearing was undertaken in accordance with condition B2-1(4)(b). No clearing commenced within the ecological linkages during the reporting period.

Condition B2-1(4) and (5) also require monitoring for adverse impacts in the Protected Areas and ecological linkages, please see Table 4-5 and Table 4-6 for management and reporting in relation to potential adverse impacts associated with flora and vegetation and Table 4-16 and Table 4-17 for management and reporting in relation to potential adverse impacts associated with water management.

During the reporting period, no clearing was undertaken in the Quindanning Timber Reserve early rehabilitation areas, as referenced in condition B2-1(6) (see Figure 4-1). A small encroachment of the Protected Areas boundary within the “Additional Protected Areas” of Quindanning Timber Reserve outlined in MS1237 Figure 6, had occurred within the limits of MS719, prior to the issue of MS1237 and will be rehabilitated in accordance with condition B2-1(6). Rehabilitation in this area commenced during the FY26 reporting period.

4.11.2 Rehabilitation Performance Report

MS1237 condition B14-2 requires the submission of a Rehabilitation Performance Report within 12 months of the date of MS1237. The Rehabilitation Performance Report addresses results and analysis of long-term rehabilitation performance since mining commencement. The Rehabilitation Performance Report was submitted on 18 December 2025. No response to this submission was received during the reporting period.

4.11.3 Annual Rehabilitation Plan

MS1237 condition B14-3 requires submission of an Annual Rehabilitation Plan (ARP) by 30 September each year. During the reporting period, 301.22 ha of new rehabilitation was undertaken in a manner consistent with the intent of achieving the environmental outcomes of MS1237 condition B14-1. The ARP details the

rehabilitation activities completed during the reporting period and reports on achievement of the environmental outcomes specified in MS1237 condition B14-1 (MS1237 condition C4-1 and C5-2). As reported in the ARP, Worsley Alumina met the conditions of B14-1 where agreed metrics were available.

The ARP is submitted concurrently with the CAR as it requires a separate approval by the CEO of DWER (as outlined in condition B14-3). Once approved by the CEO (of DWER), the ARP will be made publicly available in accordance with MS1237 condition D5-1.

To ensure compliance with MS1237 condition D2-4 the annual reporting information from the ARP is provided in Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information.

Table 4-44 Performance Against Annual Rehabilitation Plan Outcome Based Provisions

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
1. rehabilitated landforms are stable and do not cause pollution or environmental harm		**Triggers and thresholds for Outcomes 1-7 have not been developed at this stage as Completion Criteria and Biodiversity Indicators were not agreed at the time of publishing. Triggers and thresholds will be developed and included in future version of the ARP following approval of the Rehabilitation Performance Report.**		Refer to Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information.	
2. rehabilitated vegetation is self-sustaining				Refer to Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information.	
3. rehabilitated drainage lines are stable, not prone to erosion, and support ecological processes				Refer to Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information.	
4. areas rehabilitated are consistent with the species diversity and abundance of native vegetation within comparative analogue or reference sites (for areas rehabilitated after the date of MS1237)				Refer to Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information.	
5. areas rehabilitated are consistent with the species diversity and abundance of fauna within comparative analogue or reference sites (for areas rehabilitated after the date of MS1237)				Refer to Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information.	
6. areas of State Forest for which rehabilitation commences after the date of this Statement shall be rehabilitated with coarse woody debris consistent with comparative analogue or reference sites, to provide habitat for threatened fauna species, as soon as practicable and within twenty-four (24) months after commencing rehabilitation				Refer to Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information.	
7. areas for which rehabilitation commenced before the date of this Statement are rehabilitated to be consistent with the agreed completion criteria that applied at the time the rehabilitation commenced				Refer to Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information.	

Table 4-45 Performance Against Annual Rehabilitation Plan Objective Based Provisions

OBJECTIVE BASED PROVISION	PERFORMANCE INDICATOR / STANDARD	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
1) Prioritise rehabilitation, including specific targets for minimum timeframes from disturbance to rehabilitation to reduce the fragmentation and edge effects on remnant native vegetation	70% of areas disturbed for mining (ore extraction), following approval of MS1237, will be rehabilitated within 10 years of clearing commencing	• Conduct a continuous rehabilitation program of completed mining areas. • Complete rehabilitation in accordance with site procedures to ensure rehabilitation quality is maintained. • Set annual targets for direct return and area of rehabilitation.	• Rehabilitation continued during the reporting period in accordance with the Rehabilitation Prescription and relevant site procedures. • An annual target for direct return was set at 35%. • Annual tracking of the total amount of rehabilitation completed within the cleared ore extraction areas since the commencement of MS1237 is 6.9% (total areas cleared for 2025 and 2026, minus BTC clearing, divided by rehabilitation within cleared areas of 2025 and 2026), noting the majority of rehabilitation during 2025 and 2026 has occurred in areas opened prior to the commencement of MS1237.	Y

OBJECTIVE BASED PROVISION	PERFORMANCE INDICATOR / STANDARD	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
2) Monitoring of agreed biodiversity indicators and agreed completion criteria in consultation with DBCA and to the satisfaction of the CEO, and undertake independent review of biodiversity indicators and completion criteria every five (5) years following implementation of the proposal	Completion criteria and biodiversity indicators will be established and agreed by December 2027	• Proposed completion criteria and BI's included in the Rehabilitation Performance Report (Dec 2025). • Undertake consultation with DWER to determine agreement and approval of Completion Criteria and BI's. • Update of ARP to include agreed Completion criteria and BI's.	• The Rehabilitation Performance Report was submitted on 18 December 2025. The report included proposed completion criteria and BI's. • Comments from regulators regarding the Rehabilitation Performance Report were not received during the reporting period.	Y
	Implementation of monitoring program addressing agreed completion criteria and BI's within 2 years following agreement	• Progressive development and implementation of monitoring programs as required to address Completion Criteria and Bis. • Update of ARP to include revised monitoring programs. • Reporting on outcomes of monitoring programs in ARP.	• Unable to progress until completion criteria and BIs are agreed.	Y

4.11.4 Rehabilitation Activities – Post Mining

As noted above the ARP includes all information related to rehabilitation activities undertaken at the BBM for the reporting period. All information related to BBM rehabilitation is provided in Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information. This report addresses the requirements of condition 14-3 of MS1237. During the reporting year 301.22 ha of rehabilitation was completed including 173.30 ha of State Forest, 118.88 ha of private land bush and 9.04 ha of pasture rehabilitation.

Mattiske Consulting undertook rehabilitation monitoring activities during the reporting year, and the report for this activity is also available in Appendix 7: Annual Rehabilitation Plan – Annual Reporting Information.

4.11.5 Rehabilitation and / or Restoration Activities – Bauxite Residue Disposal Areas

The BRDAs are designed and constructed with provisions for closure. In practice, this means that each successive BRDA raise is constructed with a progressive closure batter comprising of track compacted batter trimmings capped with a blend of topsoil and woodchip mulch. In addition to this, the geometry and locations of ancillary infrastructure are all designed and constructed considering the final closure landform.
The overall refinery closure plan is detailed in the Worsley Refinery, Port, OBC Closure Plan (2022) which includes the outcomes of various BRDA closure studies, the latest being the Bauxite Residue Disposal Areas Closure Study (2022).

Worsley has progressively revegetated the BRDA embankment batters for stabilisation since 1988.

4.11.5.1 BRDA Monitoring

The BRDA monitoring is detailed in the Annual Hydrological Review and summarised in section 4.8.3.5.

4.11.6 Mine Rehabilitation Fund Reporting (MRF)

Worsley Alumina currently reports in accordance with the *Mining Rehabilitation Fund Act 2012 (WA)* for its activity occurring on Mining Act Tenements. Reporting for areas covered by the State Agreement is not required under the *Mine Rehabilitation Fund Act 2012* (WA).

Table 4-46 below outlines the information reported, aligned with the MRF guidelines, for the FY26 reporting year.

Table 4-46 Financial Year 2026 Mine Rehabilitation Fund Report (ha)

Tenement[1]	Cat A	Cat B	Cat C	Cat D	Cat E
G 70/183					
G 70/184			4.32		
G 70/185			9.83		
G 70/186			9.95		
G 70/187					
G 70/188			7.88		
G 70/189			9.88		
L70/210					
L70/211					

Tenement[1]	Cat A	Cat B	Cat C	Cat D	Cat E
L70/223			128.07		
M70/21					
M70/22					
M70/23					
M70/24			4.51		
M70/25			56.39		
M70/26			0.32		
M70/110					3.27
M70/111			0.33		45.74
M70/112			4.84		14.45
M70/113			22.44		9.01
M70/114			66.25		117.14
M70/115					
M70/116			49.58		18.21
M70/554					
M70/1428			81.90		
M70/564			53.42		

[1] Excluding exploration licences with nil disturbance

4.12 ENVIRONMENTAL OFFSETS

4.12.1 Local Offset EMP

MS1237 condition B15-4 requires Worsley Alumina to prepare and submit a Local Offset Environmental Management Plan (LOEMP version 2.0) to the CEO of DWER, and to not commence ground disturbing activities within the proposal area until the CEO of DWER has confirmed in writing that the management plan meets the requirements of the relevant conditions or as otherwise agreed (MS1236 condition C1-1). Confirmation that the LOEMP met the requirements of the relevant conditions was received from DWER on 11 Feb 2025.

Worsley Alumina has commenced implementation of the LOEMP in accordance with MS1237 condition C2-1 and EPBC 2019/8437 condition 31. As required by EPBC 2019/8437 condition 32, notification of commencement of implementation of the LOEMP was submitted to DCCEEW on 12 February 2025 within 5 days of commencing implementation.

As per MS1237 condition B15-6(3), the LOEMP was prepared in consultation with DBCA. Consultation is documented in the LOEMP Table 23.

As per MS1237 condition B15-6(6), the LOEMP was prepared to align with the principles of the WA Environmental Offsets Policy which is documented in Table 3 of the LOEMP.

As per MS1237 condition B15-2(1) and EPBC 2019/8437 condition 33, 4,384 ha of remnant vegetation for protection and enhancement has been purchased (LOEMP, Table 10).

As per MS1237 condition B15-2(2) and EPBC 2019/8437 condition 33, 4,962 ha of agricultural land has been purchased and must be ecologically restored and protected. The relevant properties are identified in Table 10 of the LOEMP. Work is progressing in accordance with the LOEMP

MS1237 condition B15-2(4) and EPBC 2019/8437 condition 41 require artificial breeding hollows to be installed in the event that known black cockatoo breeding trees (Rank 1 or 2 breeding trees) are removed. One Rank 1 or 2 tree was removed during the reporting period. To date 54 artificial hollows have been proactively installed in existing trees on the Gibbs Offset Property (Offset 2) in advance of potential future requirements. The host trees were identified as suitable for housing the artificial breeding hollows through the following investigation, “Black-Cockatoo Artificial Hollow Installation and Monitoring Gibbs Offset Property Part A: Site Assessment (September 2024). Ecology Matters Australia”. These trees will be maintained and monitored to assess use on an annual basis. The installed hollows were inspected on a quarterly basis during the reporting period. During the May 2026 inspection evidence of chewing was observed in a number of hollows (see .

Installation of artificial hollows to compensate for the removal of one Rank 2 tree in Sept 2025 was undertaken in Nov - Dec 2025. The first annual monitoring report, as required by EPBC 2019/8437 condition 42, will be included in the FY27 CAR which will include quarterly monitoring of artificial hollows since installation. This will allow the inclusion of a full breeding cycle for Black Cockatoo species post installation (noting that installation occurred in Dec 2025 (at the end of the Carnaby’s Black Cockatoo breeding season (Sept - Nov)).

As per MS1237 condition B15-5, (Table 1) all properties documented have been purchased and spatially identified. On ground management of Lots 1771, 2026, 2027, 6971, 2028, 159 and 160 has commenced which includes:

- Baseline flora and fauna studies;
- Development of restoration plans;
- Feral animal management including trapping of pigs, fox baiting and the use of Felixers to bait cats;
- Continued weed control, including pasture weeds and spiny rush;
- Installation of marsupial dens for chuditch, tree hollows for red-tailed phascogales and habitat piles across open areas of pasture;
- Seedling planting along the existing creek line;
- Site assessment of the lots to accommodate artificial hollows for black cockatoos with the subsequent installation of 54 artificial hollows;
- Property cleanup with the removal of farm rubbish (ongoing);
- Seeding of 114 ha of native woodland into former pasture area.

On ground management of Lots 102 and 100 has commenced. This work includes baseline flora and fauna studies and commencement of preparation of the Restoration Plan for Lot 100.

Table 4-47 and Table 4-48 provide Worsley Alumina’s performance against the LOEMP’s outcome-based provisions and objective based provisions, respectively. No triggers or thresholds were reached during the reporting period as outlined in Table 4-47 and management based objective provisions were implemented in accordance with the LOEMP (Table 4-48).

In June 2026 a revised version of the LOEMP was provided to both DWER and DCCEEW in accordance with MS2137 condition C2-3 and EPBC 2019/8437 condition 38. The revision consisted of administrative amendments and the inclusion of the EPBC 2019/8437 conditions. No feedback on the revised LOEMP had been received at the time of reporting.

Table 4-47 Performance Against LOEMP Outcome Based Provisions

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
1. Protection and enhancement of no less than 4,384 ha of remnant vegetation in perpetuity.	Area under Conservation Covenant (ha)	<3,288 ha (equal to 75%) of required protection offsets under Conservation Covenant within 12 months of receipt of Ministerial Statement.	<4,384 ha (equal to 100%) of required protection offsets under Conservation Covenant within the first mining tranche (5 years from date of issue of MS1237). *		
		No trigger exceedances recorded	Not yet applicable	Conservation covenants have been executed in full for 3,717 ha across Lot 100 (1,354 ha) and Lot 103 (2,363 ha). Covenants are provided in Appendix 12: Conservation Covenants.	Y
	Number of feral pigs trapped per annum	No decline from baseline number of pigs captured during targeted trapping programs at any given offset property during a subsequent trapping program (annualised).	<50% decline from baseline number of pigs captured during targeted trapping programs at any given offset property at 20 years post commencement of trapping program (annualised). * *Note: At least 6 pigs must have been captured at a given property during the initial year of trapping for this Threshold Criteria to be applied.*	Pig baiting and trapping program	
		No trigger exceedances recorded	Not yet applicable	The initial trapping program for feral pigs on the Gibbs Property commenced in November 2023 with the capture of 25 pigs in a two-week period. This represents the baseline for future trapping efforts on the Gibbs Property with trapping occurring on a monthly basis. During the reporting period 35 pigs were trapped on Offset 2 (Gibbs Property) (Table 4-49)	Y
	Number of 1080 baits taken	No decline from baseline in uptake of fox baits at any given offset property during a subsequent trapping program (annualised).	<50% decline from baseline in uptake of fox baits during targeted baiting programs at any given offset property at year 20 (annualised). Note: At least 6 baits must have been taken at a given property during the initial baiting program for this Threshold Criteria to be applied	Fox baiting program	
		Not yet applicable	Not yet applicable	The feral animal control program commenced for foxes on the Gibbs Property commenced in December 2023 with the use of Canid Pest Ejector (CPE) baiting. Baits are placed for a two-week period every month. During the baseline baiting period (Dec 23 – Nov 24) 32 baits were taken up. During the reporting period 14 baits were taken on the Gibbs Property (see Table 4-49). In addition, nine 1080 capsules were fired at foxes from the Felixer Grooming Traps placed on Gibbs Property.	Y
2. Ecological restoration and protection in perpetuity of no less than 4,962 ha of agricultural land to obtain a net-gain in numbat, black cockatoo, chuditch, western ringtail possum, quokka and red-tailed phascogale habitat.	Verified spatial data for restoration	Planned area of Ecological Restoration within mining tranche 1 is <700 ha (for the first mining tranche) OR Planned Ecological Restoration is less than the total area planned for clearing within any subsequent mining tranche.	Ecological Restoration for the first 5-year period <700 ha OR 4 yearly Ecological Restoration is less than the total area cleared within any subsequent 5-year mining tranche. OR <4,962 ha of Ecological Restoration conducted at completion of Revised Proposal.	10 Year Mine Plan Survey of clearing boundaries Survey of restoration boundaries	
		No Trigger exceedances recorded	Not yet applicable	An overarching restoration plan has been developed to achieve 700 ha of ecological restoration within the first mining tranche. During the reporting period restoration activities were undertaken on the Gibbs property with 114 ha of restoration seeding occurring and other works being completed across a further ~40 ha. Restoration Plans for offset properties totalling over 700 ha (including Gibbs) are currently being prepared.	Y
	Completion Criteria (Table 14 of LOEMP)	Failure to achieve the applicable completion criteria defined for Ecological Restoration (LOEMP Table 14) during a given monitoring period (up to 20 years of age).	Failure to achieve the applicable completion criteria defined for ecological restoration (see LOEMP Table 14) at >20 years of age		
		Not yet applicable	Not yet applicable	Monitoring to support performance against draft completion criteria as detailed in Table 14 of the LOEMP has not yet commenced as no areas of ecological restoration have been seeded to date. In accordance with the LOEMP, monitoring will be completed for ecological restoration at 18 months, 5, 10 and every subsequent 10 years post establishment.	Y
	Performance Targets (Table 15 of LOEMP)	Trigger levels are reached for one or more of the Offset Performance Targets, as defined in LOEMP Table 15)	Failure to achieve one or more of the defined Offset Performance Targets (see LOEMP Table 15) at >20 years of age.		
		Not yet applicable	Not yet applicable	Monitoring to support performance against Offset Performance Targets as detailed in Table 15 of the LOEMP has not yet commenced as no areas of ecological restoration have been seeded to date. Monitoring will commence when ecological restoration reaches the required age post establishment (>5 years).	Y
3. Installation of three artificial breeding hollows for every tree cleared that is being	Number of artificial hollows installed	10 Year Mine Plan identifies the requirement to clear a tree that is being used, or that has evidence of use, by Black Cockatoo species for breeding.	Number of artificial hollows installed is not ≥ 3 times the number of Black Cockatoo breeding trees cleared at the end of a given financial year (i.e. trees that are being used, or that have evidence of use, by Black Cockatoo species).		

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
used, or that has evidence of use, by black cockatoos for breeding, where that clearing is authorised by the CEO under condition B13-1(1)I		No Trigger exceedances recorded	No Threshold exceedances recorded	One Rank 1 or 2 Black cockatoo breeding tree was cleared during the reporting period. 54 artificial hollows for black cockatoo species have been installed on the Gibbs Property (see Figure 4-8) with evidence of investigation (chewing) observed in ten of the hollows.	Y

Table 4-48 Performance Against LOEMP Objective Based Provisions

OBJECTIVE	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
Minimise risk of uncontrolled fire events within offset properties	• Inspect and maintain firebreaks on an annual basis. • If required, implement cool mosaic burns within offset properties to maintain habitat for Threatened fauna and prevent uncontrolled fire events. • Install appropriate fencing and signage to prevent unauthorised access which could result in lighting of fires (e.g. camping). • Comply with fire and movement bans applied by the relevant Shire. • Emergency response personnel and equipment maintained onsite to support response to uncontrolled fires.	• Annual firebreak inspections took place in September to October. • Annual boundary fence inspections took place in September to October. • Appropriate boundary fencing and lockable gates exist and were maintained on the Gibbs Property. • All Total Fire Bans and Harvest and Vehicle Movement Bans were observed during the reporting period. • BBM currently has 11 Emergency Services staff and equipment to assist with uncontrolled bushfires. • The Refinery currently has 12 Emergency Services staff and equipment to assist with uncontrolled bushfires.	Y
Minimise risk of spread of *Phytophthora* dieback within offset properties	• Complete baseline dieback interpretation of offset properties. • Boundaries will be mapped and signposted on access tracks in the field. • Forest hygiene training will be mandated for all employees and contractors accessing the Protection Offset properties. • Forest hygiene management plans will be developed for work within dieback infested areas. • Infested boundaries will be reassessed every 5 years with signage, mapping and hygiene management plans updated as required. • Access to Offset properties will be restricted through the installation and maintenance of boundary fencing and signage. • Further access restrictions may also be applied for high-risk areas such as dry soil conditions only.	• Dieback interpretation (Baseline and 5 yearly boundary verification) has not been undertaken for all properties however this will be completed on a rolling basis • Appropriate boundary fencing and lockable gates exist on the Gibbs Property. • Signs have been purchased to advise the property is being managed for conservation purposes, these signs have been installed. • All drivers on the mine site are required to undertake forest hygiene training. • Contractors accessing native vegetation are required to undertake Green Card training.	Y
Minimise unauthorised access to Offset Properties	• Install appropriate fencing and signage on offset boundaries. • Conduct annual inspection of fencing to identify maintenance requirements or additional security requirements. • Report unauthorised access to relevant authority.	• Boundary fencing has been improved at Offset 2 with the maintenance of boundary fences and progressive installation of kangaroo fencing. Signage has been installed advising the property is being managed for conservation purposes. • Annual boundary fence inspections were completed in September to October to identify maintenance requirements which are to be subsequently undertaken.	Y
Maximise potential for utilisation of Black Cockatoo Artificial Breeding Hollows	• Ensure selected installation sites meet detailed site selection criteria. • Ensure appropriate installation methodology and security of ABH. • Conduct annual monitoring and maintenance program in accordance with LOEMP section 4.11.5. • Trial new or innovative hollow designs where practicable	• A site assessment was conducted to determine appropriate locations for placement of black cockatoo artificial hollows (Ecology Matters, 2024), since then 54 hollows have been installed. • Hollows were installed under the guidance of a qualified ecologist and in accordance with DBCA Fauna Note “Artificial Hollows for Black Cockatoos” (Link). See Figure 4-8 for locations of Artificial Hollow installations. • The first round of monitoring for the 54 installed artificial hollows was undertaken September 2025 and completed on a quarterly basis thereafter. • No additional trials were undertaken during the reporting period.	Y

Table 4-49 Feral Animal Management

PERIOD	PIGS TRAPPED	FOX BAITS TAKEN	FELIXER FIRED	FELIXER COMMENTS
July 2025	0	3	0	
August 2025	0	2	0	
September 2025	0	2	0	
October 2025	0	0	0	
November 2025	10	1	2	
December 2025	0	1	0	
January 2026	1	2	2	2 Cats, 1 Fox
February 2026	3	0	3	3 Fox, Cat seen but not fired
March 2026	0	1	1	Fox
April 2026	2	1	1	Fox, Cat seen but not fired
May 2026	6	1	3	Cat and 2 Fox
June 2026	13	0	1	Fox
TOTAL	**35**	**14**	**13**	

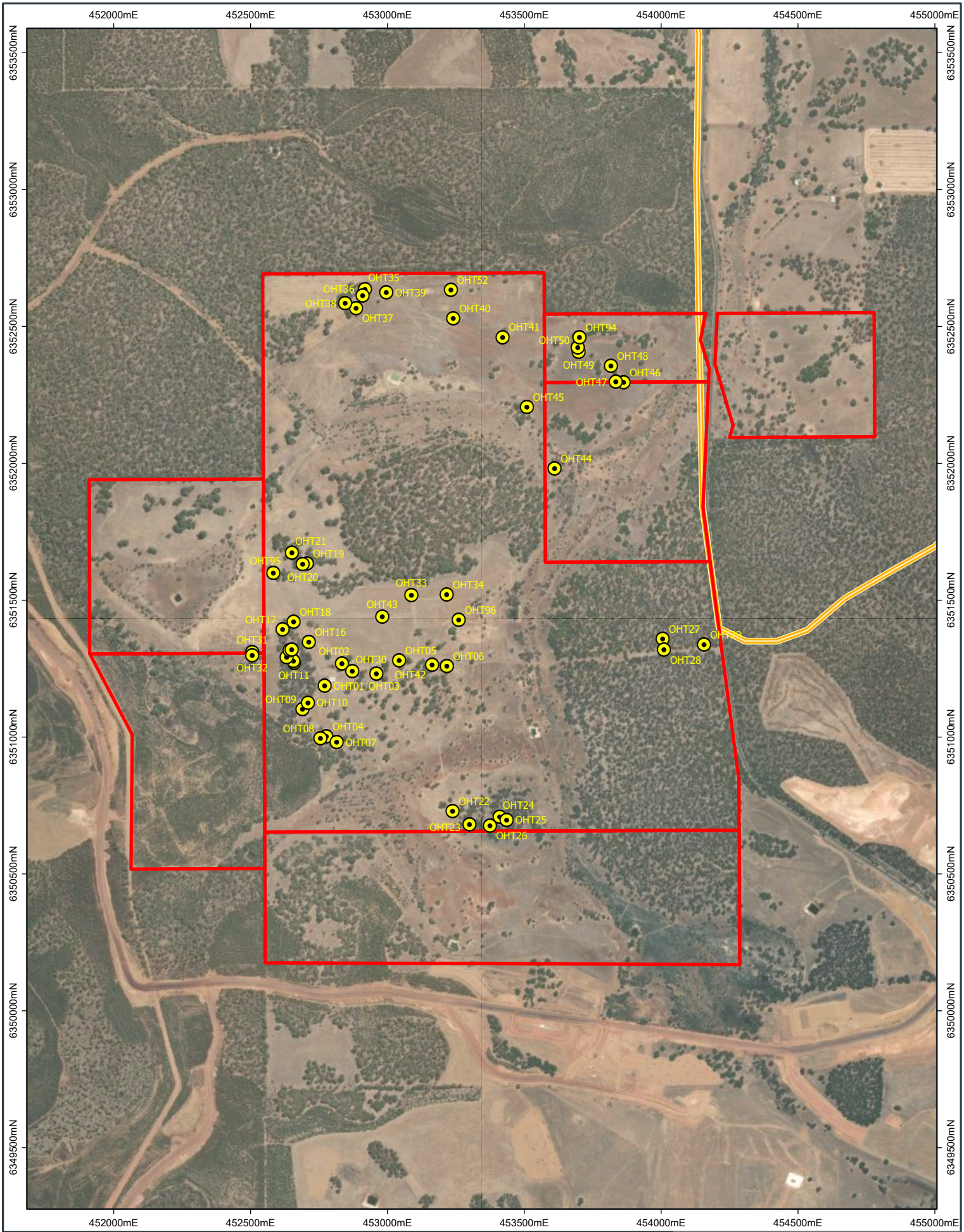


Image from Felixer of cat triggering firing of capsule (January 2026)



Image from Felixer of Cat when not triggered (21 April 2026)

Figure 4-7 Images Taken from Separate Felixer Locations on Gibbs Property.



LEGEND

- WMDE (Worsley Mining Development Envelope)
- PAA (Primary Assessment Area)
- Artificial Hollows Installed (n=54)
- Gibbs Offset Boundary

Projected: GDA2020 MGA Zone 50
Datum: GDA2020
0 0.4 Kilometres

N

SOUTH32 Worsley Alumina Pty Ltd

Artificial Black Cockatoo Hollows installed on Gibbs Property

FIGURE **4-8**

MS1237 Compliance Assessment Report FY26
EPBC 2019/8437 Annual Compliance Report FY26

Date: 16 September 2026 | Author: dlimm1

Path: C:\Users\dlimm1\South32\Worsley - ERD Development - Documents\GIS\Requests\0124_Worsley_ERD\FIGURES\CAR_2026\CAR_FY26_Fig4-7_ArtificialBCHollows_Gibbs_A4P.aprx

4.12.2 Regional Offset EMP

MS1237 condition B15-7 and EPBC 2019/8437 condition 48 require Worsley Alumina to submit a Regional Offset Environmental Management Plan within 5 years of the date of MS1237. This plan is not required to be submitted until 20 December 2029.

4.12.3 Woylie Offset EMP

MS1237 condition B15-9 and EPBC 2019/8437 condition 44 require Worsley Alumina to submit a Woylie Offset Environmental Management Plan within 2 years of the date of MS1237 (or within two years of the date of commencement of the action in respect of EPBC 2019/8437 condition 44). This plan is not required to be submitted until 20 December 2026.

4.12.4 Research Offset EMP

The Research Offset Environmental Management Plan required by MS1237 condition B15-11 and EPBC 2019/8437 condition 54 must be submitted within 2 years of the date of MS1237 (or within two years of the date of commencement of the action in respect of EPBC 2019/8437 condition 54). This plan is not required to be submitted until 20 December 2026.

4.13 CLOSURE AND DECOMMISSIONING

MS1237 condition B3-1 requires the submission of a Mine Closure Plan(s) in accordance with the DEMIRS Statutory Guidelines for Mine Closure Plans March 2020 (or any subsequent revisions of the guidelines). MS1237 condition C1-2 requires the plan be submitted for approval within 12 months of the date of MS1237 or as otherwise agreed by the CEO. Worsley Alumina submitted a letter to the CEO requesting the submission date for the Closure Plans be amended to October 2026 to align with the applicable submission date for Worsley Alumina's Mining Act tenements. The CEO accepted this request and confirmed that submission date for Closure Plans must be done by 19 October 2026 (see Appendix 8: Mine Closure Plan Documents).

EPBC 2019/8437 condition 93 requires Worsley Alumina notify DCCEEW electronically of the date of completion of the Revised Proposal and provide completion data, within 20 business days after completion, and in any event, at least 20 business days before this approval expires. The trigger for this obligation has not yet occurred.

4.14 COMPLIANCE MONITORING REPORT

A compliance monitoring report has been prepared in accordance with condition C3-2 of MS1237 and is provided in Appendix 1: Compliance Monitoring Report.

4.15 REPORTING, AUDITS AND OTHER CONDITIONS

4.15.1 Contact Details

MS1237 condition D3-1 requires Worsley Alumina to notify the CEO of any changes of its name, physical address or postal address within 28 days of such change. Worsley Alumina has had no change of contact details during the reporting period.

4.15.2 Compliance Assessment Plan

MS1237 condition D2-5 requires Worsley Alumina to submit a Compliance Assessment Plan (CAP). This was submitted to the CEO on 11 February 2025 prior to implementation of the Revised Proposal on 12 February 2025. Confirmation that the CAP met the requirements of condition D2-5 and D2-6 was provided by DWER on 19 June 2025. This was included in the FY25 CAR.

4.15.3 Compliance Assessment Report

This Compliance Assessment Report has been prepared to address the requirements of MS1237 condition D2 and EPBC 2019/8437 condition 75. As part of the submission of the CAP required by MS1237 condition D2-5, Worsley Alumina confirmed the first CAR would be provided by 30 September 2025 to align within other company reporting obligations and comply with MS1237 condition D2-2 (within 15 months of 20 December 2024). Each subsequent CAR will be provided by 30 September each year.

As per EPBC 2019/8437, the Annual Compliance Report period is defined as each subsequent 12-month period following the date of the approval decision (11 February) until the expiry of the approval, unless otherwise specified in writing. During the reporting period, Worsley Alumina requested a variation to certain conditions of EPBC approval 2019/8437, primarily to align the Annual Compliance Report period with the State's annual compliance reporting requirements. This variation enables the submission of a single annual compliance report to both regulators by 30 September each year, covering the preceding financial year ending 30 June.

Endorsement of this CAR is provided on page 4 of this document.

4.15.4 Public Availability

MS1237 conditions D5-1 and D5-2 outline the requirements for ensuring all relevant information is provided publicly in a manner approved by the CEO (of DWER) and in a reasonable period of time. In accordance with MS1237 condition D5-1 and the CAP, all validated data relied upon to support the assessment of compliance of the Worsley Project with MS1237, as detailed in this CAR, will be made publicly available. This information/data is listed in Section 9 of the CAR and will be made publicly available with the CAR on the Worsley Alumina website in accordance with either the commitments in the CAP (within 60 days of being provided to the CEO (of DWER)) or following acceptance of further information as required by each individual plan. Worsley Alumina also received information requests from members of the public during the reporting period. Where these requests were within the scope of condition D5-1, and condition D5-2 did not apply, Worsley Alumina made the relevant information available.

Documents can be accessed on the Worsley Alumina website via the following link: Worsley Alumina – Documents. As required by EPBC 2019/8437 condition 80, Worley Alumina will notify DCCEEW within five business days that the CAR has been published on the Worsley Alumina website.

EPBC 2019/8437 conditions 64 and 79 require sensitive biodiversity data to be excluded or redacted from the CAR, associated appendices and spatial data. Worsley Alumina will communicate any redacted information and will submit the full CAR and spatial data to DCCEEW within five business days of publication of the CAR on the Worsley Alumina website as required.

As required by EPBC 2019/8437 condition 81, Worsley Alumina will keep current and previous CARs and related shapefiles published on the website until the expiry date of the approval.

4.15.5 Independent Audit

Worsley Alumina notes that MS1237 incorrectly lists the conditions related to Independent Auditing as conditions D5-1 to D5-4, while the previous section of the statement (Public Availability of Data) is also listed as condition D5-1 and D5-2. Outcomes in relation to the second set of D5 conditions for Independent Audit (D5-1 – D5-4) are reported within this section.

Condition D5-1 is activated upon direction from the CEO. No such direction was received during FY2026 and therefore an independent audit was not required or undertaken during the reporting period.

Under EPBC 2019/8437 conditions 84-92, the audit period is defined as every five-year period following commencement of the action. Given this, EPBC 2019/8437 conditions 84-92 are not yet applicable.

4.15.6 Compliance Records

In accordance with the requirements of the CAP, CARs and associated compliance assessments and evidence used to verify compliance will be maintained for the life of the proposal and then for a minimum of seven years after the end of the life of the proposal. This information will be retained electronically within Worsley Alumina's applicable records management system and, where applicable, records will also remain available on the host website. As per EPBC 2019/8437 condition 70, Worsley Alumina has documented a procedure for storage location and retention of compliance records.

Monitoring data, surveys, maps and other spatial and metadata required under conditions of EPBC 2019/8437 have been prepared in accordance with the *Guide to providing maps and boundary data for EPBC Act Projects* and *the Guidelines for biological survey and mapped data* as required by EPBC 2019/8437 conditions 72 and 73. In accordance with EPBC 2019/8437 condition 74, Worsley Alumina will provide all monitoring data, surveys, maps, other spatial and metadata and all species occurrence record data electronically to DCCEEW as part of the CAR.

5 DETAILS OF NON-COMPLIANCE OR POTENTIAL NON-COMPLIANCE

The following information provides details of non-compliance or potential non-compliance activities for the Worsley Alumina Project as required by MS1237 conditions C4-4, C5-2 and D1-2 and EPBC 2019/8437 conditions 82 and 83.

Worsley has reported 12 non-compliances or potential non-compliances to the relevant Regulator during the reporting period as required by MS1237 and EPBC 2019/8437. Three non-compliances were reported during the reporting period; however, they relate to incidents that took place in the previous reporting period.

5.1 NON-COMPLIANCES

Table 5-1 below provides a summary of the reported non-compliances during the reporting period.

Table 5-1 Summary of Reported Potential Non-compliances

INCIDENT DATE	DATE REPORTED	APPLICABLE CONDITION/S	APPLICABLE EMP OUTCOME	SUMMARY OF NON-COMPLIANCE
*17 March 25	16 Sept 25	MS1237 D1-1 EPBC 2019/8437 condition 82 and 83	WMP CFWM3	TSS exceedances at sample points FWL 1 – 4 (March onwards) and AR2 (since May).
*Unknown	16 Sept 25	MS1237 D1-1 EPBC 2019/8437 condition 82 and 83	WMP CFMW1	The threshold for individual mortality in the Freshwater Lake was exceeded (56.25% against threshold of 50%).
*27 March 25	16 Sept 25	MS1237 B12-1(4) and D1-1 EPBC 2019/8437 condition 82 and 83		A breach in topsoil handling procedures resulted in the movement of dieback infested topsoil into a previously uninfested topsoil stockpile.
#23 Jul 25	16 Sept 25	MS1237 D1-1 EPBC 2019/8437 condition 82 and 83	WMP CFWM3	Aluminium threshold exceedances at sample points FWL3 (July/August) and AR3 (August).
14 Oct 25	16 Oct 25	MS1237 D1-1	WMP Ref2 Outcome1	The ecological release of water downstream to the Augustus River (AR) did not meet the requirements outlined in SWL68041 for the period 15 September to 14 October.
#24 Jun – 21 Oct 25	30 Oct 25	MS1237 D1-1 EPBC 2019/8437 condition 82 and 83	WMP CFWM3	TSS threshold exceedances at sample points FWL 1 – 5.
14 Nov 25	17 Nov 25	MS1237 D1-1	WMP Ref2 Outcome1	The ecological release of water downstream to the Augustus River (AR) did not meet the requirements outlined in SWL68041 for the period 15 October to 14 November.
15 Dec 25	08Jan 26	MS1237 D1-1 EPBC 2019/8437 condition 82 and 83	WMP CFWM3	TSS threshold exceedances at sample points FWL 1, 2, 4 and 5.
#27 Jan 26	05 Feb 26	MS1237 D1-1 EPBC 2019/8437 condition 82 and 83	WMP CFWM3	TSS threshold exceedance at sample point FWL 2.
#09 Feb 26	19 Feb 26	MS1237 D1-1	WMP CFWM3	TSS threshold exceedance at sample points FWL1, FWL2 and FWL5.

		EPBC 2019/8437 condition 82 and 83		
26 Mar 26	26 Mar 26	MS1237 D1-1 EPBC 2019/8437 condition 82 and 83	WMP CFWM3	TSS threshold exceedance at sample point FWL1.
04 May 26	04 May 26	MS1237 D1-1 EPBC 2019/8437 condition 82 and 83	WMP CFWM3	Suspended Solids exceedance of the Water Management Plan thresholds. Zinc exceedance (above 0.008 mg/L) of the Water Management Plan at AR2.
10 Jun 26	11 Jun 26	MS1237 D1-1 EPBC 2019/8437 condition 82 and 83	WMP CFWM3	Suspended Solids exceedance of the Water Management Plan thresholds at sample points FWL 1, 2, 4 and 5.
10 Jul 26	13 Jul 26	MS1237 D1-1 EPBC 2019/8437 condition 82 and 83	WMP CFWM3	TSS threshold exceedance at sample point FWL1, FWL2, FWL3, FWL4 and FWL5. Aluminium threshold exceedances at sample point FWL 3.
25 May 26- 3 Aug 26	13 Aug 26	MS1237 Condition D1-1	WMP Ref1	Reportable exceedances of threshold criteria at ARGs under the approved Water Management Plan (WMP).

* Incidents occurred during the last reporting period, however only reported in this reporting period. Included for completeness.
# Dates represent the date the sample was taken, not the date that analysis results were received.

6 COMPLIANCE ASSESSMENT AUDIT TABLES

6.1 MS1237 AUDIT TABLE

Table 6-1 MS1237 Audit Compliance Table

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
MS1237: A1-1	Proposal Implementation	The proponent must ensure that the proposal is implemented in such a manner that the following limitations or maximum extents / capacities / ranges are not exceeded	Implement project pursuant to Table in condition A1-1 of Ministerial Statement (MS) 1237	CAR	Overall	30 September annually	C	*Section 4.3, Table 4-2 provides the compliance assessment against each Proposal Key Characteristic of condition A1-1
MS1237: B1-1	Greenhouse Gas	The proponent must notify the CEO in writing within one month of it becoming aware that implementation of the proposal will not be or is not expected to be regulated under the Safeguard Legislation as a designated large facility (the notifiable event) and such notice must briefly describe the reasons for and expected duration of the notifiable event.	Notify CEO in writing within one month of becoming aware that the proposal will not be or is not expected to be regulated as stated	Letter to CEO	Overall	As required	NR	
MS1237: B1-2	Greenhouse Gas	The proponent must, if requested in writing by the CEO, provide the CEO with a report on the implications for the proposal of any amendment or proposed amendment to the Safeguard Legislation or a decision or proposed decision made under the Safeguard Legislation that is specified in the CEO's request	Report provided to CEO if requested in accordance with condition B1-3	Report as requested	Overall	As required	NR	
MS1237: B1-3	Greenhouse Gas	The report required by condition B1-2 must: (1) be submitted to the CEO within three months of the date of the CEO's request or such longer period as the CEO agrees to in writing; and (2) explain the implications that the specified amendment or decision has had or is expected to have on: (i) the obligation to reduce net Scope 1 GHG emissions from implementation of the proposal under the Safeguard Legislation; and (ii) the quantity of actual and net Scope 1 GHG emissions likely to result from the future implementation of the proposal.	Report provided to CEO if requested in accordance with condition B1-3	Report as requested	Overall	As required	NR	
MS1237: B1-4	Greenhouse Gas	Within six months of the conclusion of five years of the date of this Statement, and every five years thereafter, the proponent shall provide a report to the CEO that describes for the five-year period to which the report applies: (1) the quantity of Non-Safeguard GHG emissions; (2) the quantity of Non-Safeguard Net GHG emissions; (3) the areas of land established with vegetation by rehabilitation of mining areas and restoration of previously cleared land as required by or under conditions B9, B10, B14 and B15 and the quantity of GHG emissions that have been sequestered by the vegetation established on that land; (4) the trajectory and progress towards zero Non-Safeguard Net GHG emissions by 2050; and (5) whether the proponent is compliant with condition B1-5 for any period or part of a period that occurs after 1 July 2050.	Prepare a report five yearly on GHG emissions in accordance with condition B1-4 and provided to the CEO	Report EO submission receipt (or other evidence of submission)	Overall	5 Yearly (first issue before 20 June 2029)	NR	
MS1237: B1-5	Greenhouse Gas	The proponent shall ensure that Non-Safeguard Net GHG emissions shall be zero (0) for every five (5) year period, or part of a five (5) year period, occurring after 1 July 2050	Provide GHG update in CAR	CAR	Overall	30 September annually	NR	
MS1237: B2-1	Rehabilitation, Protected Areas & Ecological Linkages	The proponent must ensure the implementation of the proposal achieves the following environmental outcomes: (1) ensure that in any three (3) financial year period commencing after the date of this Statement that the hectares of rehabilitation of areas mined is equal to or greater than the hectares of clearing of native vegetation for mining; (2) ensure the commencement of rehabilitation of areas cleared for infrastructure, roads or access within 18 months of that infrastructure, road or access no longer being required; (3) from 1 July 2033, ensure that the rehabilitation deficit associated with the Revised Proposal within the PAA is a maximum of 35% unless the proponent receives approval from the CEO to increase the rehabilitation deficit for a temporary period of no more than two (2) years. (4) ensure no disturbance or adverse impacts to the protected areas shown in Figure 4 except where approved by the CEO or where it occurs in the course of: (a) ecological restoration or rehabilitation activities;	Implementation of the CSFMP, FVEMP, WMP and include reporting in the CAR	CAR	Overall	30 September annually	C	Section 4.11.1

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(b) maintenance and decommissioning of infrastructure within the protected areas; (c) environmental monitoring activities (including installation and decommissioning of monitoring equipment and sites); or (d) activities carried out to ensure compliance with legislation or approvals (including the conditions of this Statement). (5) ensure no disturbance or adverse impacts to more than 146.5 ha of native vegetation within the ecological linkages shown in Figure 5 where disturbance shall only be for infrastructure, roads or access and not mining; (6) ensure no activities occur in additional protected areas shown in Figure 6, and where activities have already occurred in these areas under MS 719, those areas must be rehabilitated in accordance with condition B14-3 to reduce the effects of habitat loss, fragmentation, modification of surface hydrology and groundwater mounding; (7) ensure rehabilitation is prioritised in areas adjacent to protected areas shown in Figure 4, ecological linkages shown in Figure 5 and additional protected areas shown in Figure 6; and (8) complete revegetation (seeding and fertilising) of areas cleared within the early rehabilitation areas identified in Figure 6 within four (4) years after clearing activities commenced in those areas, excluding areas that are used for infrastructure.						
MS1237: B3-1	Decommissioning	The proponent shall prepare and submit a Mine Closure Plan(s) in accordance with the DEMIRS Statutory Guidelines for Mine Closure Plans March 2020 (or any subsequent revisions of the guidelines), to the requirements of the CEO, on advice of DEMIRS and DBCA.	Prepare and submit an updated Mine Closure Plan in accordance with DEMIRS March 2020 Guidelines	Mine Closure Plan EO submission receipt (or other evidence of submission)	Overall		NR	Section 4.13
MS1237: B3-2		The proponent shall implement the proposal to achieve the following environmental objective: (1) to ensure that the site is left in a safe and environmentally acceptable condition.	Implement the CEMP and include reporting in the CAR Implement the Mine Closure Plan	CAR	Overall	30 September annually	NR	Section 4.13 Section 4.9
MS1237: B3-3		The Mine Closure Plan(s) required in condition B3-1 shall include the following: (1) the removal or, if appropriate, retention of plant and infrastructure in consultation with relevant stakeholders; (2) the long-term management of ground and surface water systems affected by the refinery, coal stockpiles, waste disposal areas, and associated infrastructure; (3) rehabilitation of all disturbed areas to a standard suitable for the proposed new land use(s); and (4) identification of contaminated areas, including provision of evidence of notification and proposed management measures to relevant statutory authorities.	Prepare and submit an updated Mine Closure Plan in accordance with DEMIRS March 2020 Guidelines and ensure condition B3-3 requirements are captured	Mine Closure Plan	Overall	Before 20 December 2025 (subject to a request for an extension)	NR	Section 4.13
MS1237: B3-4		The proponent shall review and revise the Mine Closure Plan(s) required by condition B3-1 at intervals not exceeding three (3) years, or as otherwise specified by the CEO, and submit the Mine Closure Plan(s) to the CEO at the agreed intervals.	Review and revise the Mine Closure Plan at least three yearly and submit to the CEO	Mine Closure Plan EO submission receipt (or other evidence of submission)	Overall	Three yearly (first submission before 20 December 2027)	NR	Section 4.13
MS1237: B4-1	Biodiversity-related Investigations – EMAs	The proponent shall conduct biodiversity-related investigations for the extended mining areas in accordance with the endorsed Scope of Biodiversity-related Investigations document	Conduct Biodiversity Studies in accordance with the Scope of Biodiversity-related Investigations	Submission of studies	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs. Expected 2035	C	Section 4.5.1 Appendix 4: Flora and Fauna Reports
MS1237: B4-2		The proponent may revise and amend the endorsed Scope of Biodiversity-related Investigations document subject to the amended document being submitted to the Minister for Environment for endorsement on the advice of the Environmental Protection Authority, the DBCA and the Conservation and Parks Commission	Amended Scope of Biodiversity-related Investigations document submitted and endorsed by the Minister for Environment	Amended Scope Written notice from the Minister endorsing the amended scope	Extended Mining Areas	Scope endorsed in 2007 by DCCEEW and 2008 by DWER.	C	Section 4.5 Section 4.5.1
MS1237: B4-3		The Minister for Environment may initiate a review and/or amendment of the endorsed Scope of Biodiversity-related Investigations document	Review Scope of Biodiversity-related Investigations if requested	Letter from Minister requesting review Revised Scope	Extended Mining Areas	As required	C	Section 4.5
MS1237: B4-4		The proponent shall implement and comply with the endorsed amended Scope of Biodiversity-related Investigations document referred to in condition B4-2 and B4-3.	Undertake biodiversity-related investigations in accordance with the Scope of Biodiversity-related Investigations	Biodiversity Reports CAR	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5 Section 4.5.1 Appendix 4: Flora and Fauna Reports

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
MS1237: B4-5		The proponent shall make the endorsed Scope of Biodiversity-related Investigations document referred to in conditions B4-1, B4-2 and B4-3 publicly available on the proponent's website	Publish the Scope of Biodiversity-related Investigations on the South32 web page	Scope available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	C	Section 4.5
MS1237: B4-6		Prior to the lodgement of the Bauxite Mining Plan required by condition B8, the proponent shall prepare and submit a Biodiversity-related Investigations Report to the Minister for Environment for endorsement on advice of the Environmental Protection Authority, the DBCA and the Conservation and Parks Commission which details the results of the biodiversity-related investigations conducted as required by condition B4-1 and B4-4. The report shall include the following: (1) written certification that the endorsed Scope of Biodiversity-related Investigations document is complete; (2) key biodiversity values to be protected; (3) indicators, parameters or criteria to be used in measuring maintenance of the key biodiversity values identified, and ongoing monitoring requirements; (4) outcomes and findings for each of the matters investigated, including: (a) the occurrence, spatial extent and condition of floristic and vegetation communities at local and regional scale including threatened ecological communities and priority ecological communities; (b) the occurrence, abundance and spatial extent of threatened flora, priority flora and other significant flora (c) the role and significance of ecological linkages; (d) the occurrence, severity and spatial extent of forest disease, weeds and pests and the potential for the spread of forest disease, weeds and pests; (e) characterisation of landforms; (f) the identification and spatial extent of fauna habitat, including specifically, habitat for threatened fauna, priority fauna, other significant fauna and significant short-range endemic fauna; (g) the occurrence, abundance and distribution of terrestrial fauna, including specifically, threatened fauna, priority fauna, other significant fauna, and significant short-range endemic fauna; (h) groundwater systems and the occurrence and distribution of groundwater dependent ecosystems; (i) stream flow and quality, and stream dependent ecosystems; and (j) impacts of climate change. (5) a description and surveyed plans of ecological linkages and the proposed areas of zero disturbance; and (6) defined buffer areas around ecological linkages and areas of zero disturbance.	Prepare and submit a Biodiversity-related Investigations Report in accordance with the requirements of the Scope of Biodiversity-related Investigations and condition B4-6	Biodiversity Related Investigations Report EO submission receipt (or other evidence of submission) Endorsement from the Minister for Environment	Extended Mining Areas	Within 60 days of receiving endorsement from the Minister for Environment	NR	Section 4.5.1.
MS1237: B4-7		The proponent shall make the endorsed Biodiversity-related Investigations Report required by condition B4-6 publicly available on the proponent's website	Publish the Scope of Biodiversity-related Investigations on the South32 web page	Scope available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.1
MS1237: B4-8		The proponent shall not commence ground disturbing activities within the extended mining areas (including mining and transport corridor construction activities) prior to endorsement and publication of the Biodiversity-related Investigations Report required by condition B4-6	Do not commence ground disturbing activities until after endorsement and publication of the Biodiversity-related Investigations Report	CAR	Extended Mining Area	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.1
MS1237: B5-1	Flora & Veg – EMAs	The proponent must ensure the implementation of the proposal achieves the following environmental outcomes: (1) disturb no more than 8,400 ha of native vegetation; (2) ensure the proposal does not cause or contribute to the direct or indirect disturbance of threatened flora unless the disturbance is approved under the *Biodiversity Conservation Act 2016*; (3) unless otherwise approved by the Minister for Environment, on advice of the Environmental Protection Authority and the DBCA, ensure the proposal does not cause or contribute to the direct or indirect disturbance of: (a) vegetation complexes (as mapped for the Regional Forest Agreement) which have less than 30% of their pre-European extent remaining; (b) threatened ecological communities as identified in the Biodiversity-related Investigations Report required by condition B4-6; (c) heathland as identified in the Biodiversity-related Investigations Report required by condition B4-6;	Implement the proposal in accordance with condition B5-1 Report performance in the CAR	CAR	Extended Mining areas	30 September annually	NR	Section 4.5.2

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(d) granite outcrops as identified in the Biodiversity-related Investigations Report required by condition B4-6; (e) other naturally rare or restricted floristic communities, vegetation or ecological communities and key ecological linkages identified in the Biodiversity-related Investigations Report required by condition B4-6; (f) significant populations of priority flora identified in the Biodiversity-related Investigations Report required by condition B4-6; (g) stream zones in accordance with DWER guidance for protection of sensitive water bodies, except for the construction and operation of stream crossings for haul roads, service roads, transport corridors, mine water supply and other infrastructure; and (h) other important conservation values and habitats identified in the Biodiversity-related Investigations Report required by condition B4-6. (4) without limiting condition B5-1(2) and B5-1(3), ensure that mining, transport corridor construction or operational activities do not cause or contribute to the following: (a) any significant adverse impact on any groundwater dependent ecosystems identified by the Biodiversity-related Investigations Report required by condition B4-6 or lead to waterlogging of significant areas of dry land vegetation; (b) any increase in severity status of weeds or pests, as identified in the Biodiversity-related Investigations Report required by condition B4-6, in State Forest; (c) increased spread of forest disease outside areas identified as infected by the Biodiversity-related Investigations Report required by condition B4-6; (d) placing any flora species or ecological community into a higher category of threat; and (e) causing disturbance in defined buffer areas around ecological linkage and areas of zero disturbance identified in the Biodiversity-related Investigations Report required by condition B4-6.					
MS1237: B6-1	Terrestrial Fauna – EMAs	The proponent must ensure the implementation of the proposal achieves the following environmental outcomes: (1) ensure the proposal does not cause or contribute to the direct or indirect disturbance of significant areas of habitat for threatened fauna, priority fauna, other significant fauna and significant short-range endemic fauna identified in the Biodiversity-related Investigations Report required by condition B4-6, unless otherwise approved by the Minister for Environment on advice of the Environmental Protection Authority and the DBCA; and 2) without limiting condition B6-1(1), ensure that mining, transport corridor construction or operational activities do not cause or contribute to placing any terrestrial fauna species into a higher category of threat.	Implement the proposal in accordance with condition B6-1 Report performance in the CAR	CAR	Extended Mining areas	30 September annually	NR	Section 4.5.3
MS1237: B7-1	Transport Corridor Route Plans – EMAs	Prior to the commencement of ground disturbing activities within the extended mining areas (including mining and transport corridor construction activities), the proponent shall prepare and submit a Transport Corridor Route Plan to the Minister for Environment for endorsement on the advice of the Environmental Protection Authority and the DBCA.	Prepare and submit a Transport Corridor Route Plan for endorsement by the Minister for Environment	Transport Corridor plan EO submission receipt (or other evidence of submission) Endorsement from the Minister for Environment	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.4
MS1237: B7-2		The Transport Corridor Route Plan shall: (1) describe the route, area of disturbance and evaluation of alternative routes considered for each proposed transport corridor; and 2) describe how the selected transport corridor route complies with the requirements of the endorsed Biodiversity-related Investigations Report required by condition B4-6 and is in accordance with conditions B5 and B6	Prepare and submit a Transport Corridor Route Plan to included requirements of B7-2	Transport Corridor Plan	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.4
MS1237: B7-3		The proponent shall implement and comply with the endorsed Transport Corridor Route Plan required by condition B7-1	Report implementation and operation activities in CAR	CAR	Extended Mining Areas	30 September annually	NR	Section 4.5.4
MS1237: B7-4		The proponent shall make the endorsed Transport Corridor Route Plan required by condition B7-1 publicly available on the proponent's website	Publish the Transport Corridor Route Plan on the South32 web page	Plan available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMA's	NR	Section 4.5.4
MS1237: B7-5		The Minister for Environment may initiate a review and/or amendment of the endorsed Transport Corridor Route Plan referred to in condition B7-1	Review the Transport Corridor Route Plan if requested	Letter from Minister requesting review Revised Plan	Extended Mining Areas	As required	NR	Section 4.5.4

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
MS1237: B7-6		The proponent shall implement and comply with the amended endorsed Transport Corridor Route Plan referred to in condition B7-5	Report implementation and operation activities in the CAR	CAR	Extended Mining Areas	30 September annually	NR	Section 4.5.4
MS1237: B7-7		The proponent shall make the endorsed Transport Corridor Route Plan referred to in conditions B7-1 and B7-6 publicly available on the proponent's website	Publish the Transport Corridor Route Plan on the South32 web page	Plan available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.4
MS1237: B8-1	Bauxite Mining Plans – EMAs	At least twelve (12) months prior to the commencement of ground disturbing activities within the extended mining areas, the proponent shall prepare and submit a draft Bauxite Mining Plan to the CEO, DBCA, the Conservation and Parks Commission, the Worsley Environmental Management Liaison Group and the Stakeholder Consultation Group for review. The draft Bauxite Mining Plan shall: (1) incorporate the findings contained in the Biodiversity-related Investigations Report required by condition B4-6; (2) ensure that the areas for mining are consistent with the areas of zero disturbance, ecological linkages, and buffers identified in the Biodiversity-related Investigations Report required by condition B4-6, and take into account the location of indicative fauna habitat zones as identified and in accordance with the requirements of the Forest Management Plan 2024 – 2033; (3) set out the management and mitigation measures which will be undertaken to ensure that mining activities comply with conditions B5 and B6; (4) set out monitoring and auditing to be conducted prior to, during and following mining activities; (5) demonstrate how the proponent's implementation of the proposal protects the key biodiversity values identified in the Biodiversity-related Investigations Report required by condition B4-6 and is in accordance with conditions B5 and B6; and (6) address the objectives of the Forest Management Plan 2024 – 2033.	Prepare and submit a Draft Bauxite Mining Plan for review to the required parties (i.e. CEO etc)	Draft Bauxite Mining plan EO submission receipt (or other evidence of submission)	Extended Mining Areas	At least 12 months prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.5
MS1237: B8-2		The proponent shall revise and submit the draft Bauxite Mining Plan, taking into account all comments and recommendations (if any) received under condition B8-1, to an independent Environmental Auditor chosen by the proponent for review who will: be an individual currently certified/accredited by RABQSA as a Lead Environmental Auditor or an individual currently certified as a Lead Environmental Auditor by an organisation accredited to ISI/IEC 17924 (by JAS-ANZ or a body recognised by JAS-ANZ); and within one (1) month of receiving a revised draft Bauxite Mining Plan prepare a report on whether, in its opinion, the Plan will comply with conditions B5 and B6.	Revise draft Bauxite Mining Plan and submit it to an independent Environmental Auditor	Report written by the independent Environmental Auditor	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.5
MS1237: B8-3		The proponent shall submit its response to review comments received under B8-1 together with the revised draft Bauxite Mining Plan and the report prepared by the independent Environmental Auditor to DBCA and the CEO for review	Submit updated Draft Bauxite Mining Plan and Independent Auditor report to DBCA and the CEO for review	Draft Bauxite Mining plan & Audit Report EO submission receipt (or other evidence of submission)	Extended Mining Area	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.5
MS1237: B8-4		The proponent shall prepare a Final Bauxite Mining Plan, taking into account all comments and recommendations (if any) received from the independent Environmental Auditor referred in condition B8-2 and additional comments received under condition B8-3.	Prepare a Final Bauxite Mining Plan	Draft Bauxite Mining plan	Extended Mining Area	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.5.
MS1237: B8-5		Prior to the commencement of ground disturbing activities within the extended mining areas, the proponent shall submit the Final Bauxite Mining Plan and the report prepared by the independent Environmental Auditor to the DBCA and the CEO who may advise the Minister for Environment of any remaining deficiencies within the Bauxite Mine Plan in which case ground disturbing activities within the extended mining areas shall not commence until the Minister has made a determination	Submit for endorsement the Final Bauxite Mining Plan	Final Bauxite Mining Plan EO submission receipt (or other evidence of submission)	Extended Mining Area	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.5
MS1237: B8-6		The proponent shall implement and comply with the Final Bauxite Mining Plan	Report implementation and operation activities in the CAR	CAR	Extended Mining Areas	30 September annually	NR	Section 4.5.5.
MS1237: B8-7		The proponent shall make the Final Bauxite Mining Plan publicly available on the proponent's website.	Publish the Final Bauxite Mining Plan on the South32 web page	Plan available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.5

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
MS1237: B8-8		The proponent may revise and amend the Final Bauxite Mining Plan referred to in condition B8-6 subject to the amended Final Bauxite Mining Plan undergoing review and revision as specified in conditions B8-1, B8-2, B8-3, B8-4 and B8-5	If required, revise and resubmit the Final Bauxite Mining Plan	Revised Final Bauxite Mining Plan EO submission receipt (or other evidence of submission)	Extended Mining Area	As required	NR	Section 4.5.5
MS1237: B8-9		The Minister for Environment may initiate a review and/or amendment of the Final Bauxite Mining Plan referred to in condition B8-6	Review the Final Bauxite Mining Plan if requested	Letter from Minister requesting review Revised Plan	Extended Mining Areas	As required	NR	Section 4.5.5
MS1237: B8-10		The proponent shall implement and comply with the amended Final Bauxite Mining Plan referred to in condition B8-8 and B8-9	Report implementation and operation activities in the CAR	CAR	Extended Mining Areas	30 September annually	NR	Section 4.5.5
MS1237: B8-11		The proponent shall make the amended Final Bauxite Mining Plan referred to in condition B8-10 publicly available on the proponent's website	Publish the amended Final Bauxite Mining Plan on the South32 web page	Plan available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.5
MS1237: B9-1	Rehabilitation – EMAs	On completion of the Biodiversity-related Investigations referred to in condition B4, the proponent shall use the findings of the investigations to prepare and submit a draft Rehabilitation Plan for review to the DBCA, Conservation and Parks Commission, the Worsley Environmental Management Liaison Group and the Stakeholder Consultation Group. The objectives of the draft Rehabilitation Plan are to ensure that: (1) rehabilitation research and trials are targeted to the key issues facing the rehabilitation of the proposed bauxite mine areas; (2) planning and implementation of rehabilitation is carried out in a manner consistent with industry best practice; (3) planning and implementation of rehabilitation is carried out in a manner consistent with relevant objectives and strategies in the Forest Management Plan 2024 – 2033; (4) rehabilitated native vegetation in State Forest areas will ultimately develop into sustainable ecological systems which are compatible with surrounding native vegetation and its land uses, and approximates as closely as possible the pre- mining biodiversity and functional values (5) rehabilitated private land areas return to a mix of productive agricultural land and native vegetation compatible with the original native vegetation, which at least maintains the extent of the existing native vegetation and enhances ecological connectivity; and (6) the matters identified in the report entitled, 'A Review of the Rehabilitation at Worsley Alumina's Boddington Bauxite Mine' prepared by URS Australia Pty Ltd relating to the assessment of ecosystem sustainability are given due consideration.	Prepare and submit a Draft Rehabilitation Plan for review to the required parties (i.e. DBCA etc)	Draft Rehabilitation plan EO submission receipt (or other evidence of submission)	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.6
MS1237: B9-2		The draft Rehabilitation Plan shall address the following topics which are relevant to long term sustainable rehabilitation: (1) objectives for rehabilitation, including site specific variation, and objectives of the Forest Management Plan 2024 – 2033; (2) an outline of proposed rehabilitation research priorities; (3) conduct and application of research; (4) topsoil management; (5) targets for nutrient cycling; (6) pest and disease control and management; (7) targets for flora and fauna recruitment, including specific targets for: (a) the return of recalcitrant species; (b) the return of key fauna habitat; (c) the translocation of mature specimens of long-lived species required for fauna habitat (e.g. Xanthorrhoea and Macrozamia); (d) the recolonisation of invertebrate fauna; and (e) the recolonisation of mycorrhizal fungi; (8) hydrological function; (9) climate change consideration; (10) integration with State Forest management; (11) monitoring and adaptive management (12) plant species composition (including reference to the species listed in the report entitled, 'A Review of the Rehabilitation at Worsley Alumina's Boddington Bauxite Mine' prepared by URS Australia Pty Ltd), including species vulnerability to fire	Prepare and submit a Draft Rehabilitation Plan for review to the required parties (i.e. DBCA etc)	Draft Rehabilitation plan EO submission receipt (or other evidence of submission)	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.6.

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(13) long term sustainability, including criteria for assessing ecosystem sustainability on natural and disturbed land; (14) completion criteria including an overall requirement that no extraordinary residual management liability (above the normal cost of managing undisturbed forest) shall accrue to the land management authority unless agreed by the State. Completion criteria should have an objective of achieving integration of the rehabilitation areas into large scale prescribed burning programs for the purpose of fire management prior to the hand-back of responsibility to the State; and (15) peer review and reporting.						
MS1237: B9-3		The proponent shall, at least twelve (12) months prior to commencement of ground disturbing activities within the extended mining areas (including mining and transport corridor construction), prepare and submit a final Rehabilitation Plan, taking into account all comments and recommendations (if any) received under condition B9-1, to the Minister for Environment for endorsement on the advice of the Environmental Protection Authority and the DBCA	Prepare and submit a Final Rehabilitation Plan for endorsement to the Minister for Environment.	Final Rehabilitation plan EO submission receipt (or other evidence of submission) Endorsement of Plan from the Minister	Extended Mining Areas	At least 12 months prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.6
MS1237: B9-4		The proponent shall implement and comply with the endorsed Rehabilitation Plan referred to in condition B9-3	Report implementation and operation activities in the CAR	CAR Rehabilitation monitoring results	Extended Mining Areas	30 September annually	NR	Section 4.5.6
MS1237: B9-5		The proponent shall make the endorsed Rehabilitation Plan referred to in condition B9-3 publicly available on the proponent's website	Publish the Final Rehabilitation Plan on the South32 web page	Plan available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.6
MS1237: B9-6		The proponent shall review the endorsed Rehabilitation Plan annually and present its findings in an annual Compliance Assessment Plan submitted to the CEO. The review shall include the following: (1) presentation of results of monitoring; and 2) plans for improvement in rehabilitation to meet objectives and targets where necessary.	Report activities in the CAR including presentation of monitoring and adaptive management where required	CAR	Extended Mining Areas	30 September annually	NR	Section 4.5.6
MS1237: B9-7		The proponent may revise and amend the endorsed Rehabilitation Plan referred to in condition B9-4, in accordance with the review of condition B9-6 and subject to the amended Rehabilitation Plan undergoing review and revision as specified in condition B9-1.	If required, revise and resubmit Final Rehabilitation Plan	Revised Final Rehabilitation Plan EO submission receipt (or other evidence of submission)	Extended Mining Area	As required	NR	Section 4.5.6
MS1237: B9-8		The Minister for Environment may initiate a review and / or amendment of the endorsed Rehabilitation Plan referred to in condition B9-4	Review Final Rehabilitation Plan if requested	Letter from Minister requesting review Revised Plan	Extended Mining Areas	As required	NR	Section 4.5.6
MS1237: B9-9		The proponent shall submit the amended Rehabilitation Plan referred to in condition B9-7 to the Minister for Environment for endorsement on the advice of the Environmental Protection Authority and DBCA	Submit the amended Rehabilitation Plan to the Minister for Environment for endorsement	Revised Final Rehabilitation Plan EO submission receipt (or other evidence of submission) Letter of endorsement from Minister	Extended Mining Areas	As required	NR	Section 4.5.6
MS1237: B9-10		The proponent shall implement and comply with the endorsed amended Rehabilitation Plan referred to in condition B9-8 and B9-9	Report implementation and operation activities in the CAR	CAR Rehabilitation monitoring results Research outcomes	Extended Mining Areas	30 September annually	NR	Section 4.5.6
MS1237: B9-11		The proponent shall make the endorsed amended Rehabilitation Plan referred to in condition B9-8 and B9-9 publicly available on the proponent's website	Publish the amended Rehabilitation Mining Plan on the South32 web page	Plan available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.6
MS1237: B10-1	Environmental Offsets – EMAs	The proponent shall implement offsets to achieve a net environmental benefit as a result of land disturbance due to mining activities	Implement offsets as required based on disturbance	Agreed Offsets in place	Extended Mining Areas	As required	NR	Section 4.5.7
MS1237: B10-2		Prior to entering into the extended mining areas, the proponent shall prepare and implement an offsets program that addresses the following: (1) establishing conservation areas: (a) provision of an area of land comparable to the area of State Forest disturbed in extended mining areas for conservation by means of conservation covenants or agreements; and (b) the timeframe for establishment of conservation areas in conjunction with the proponent's Ten Year Mine Plan;	Prepare and implement an offsets program to address the requirements of condition B10-2	Offsets Program	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.7

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(2) catchment and landscape enhancement for previously cleared land in the region: (a) provision of up to $100,000 per annum for the duration of mining of private land, up to a maximum of ten years; and (b) the timeframe for establishment of catchment and landscape enhancement initiatives in conjunction with the proponent's Ten Year Mine Plan; (3) specific management programs: (a) identification and contribution to jarrah forest conservation initiatives including: (i) research and understanding of jarrah forest biodiversity values; (ii) forest disease management; and (iii) flora and fauna conservation programs.						
MS1237: B10-3		The offsets program must be prepared in consultation with the Worsley Environmental Management Liaison Group.	Prepare offsets program in consultation with the WEMLG	Offsets Program including consultation summary	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.7
MS1237: B11-1	Water Supply Protection – EMAs	Prior to the commencement of any ground disturbing activities in areas proclaimed as water reserves or catchment areas under the *Metropolitan Water Supply, Sewerage, and Drainage Act 1909* or under the *Country Areas Water Supply Act 1947*, the proponent shall prepare a Water Resource Management Plan to the requirements of the Minister for Environment on advice of the DWER and the Water Corporation. The Water Resource Management Plan shall demonstrate that the ground disturbing activities shall have negligible impact on the quantity and quality of water supplies in the catchments.	Develop a Water Resource Management Plan	Water Resource Management Plan Survey of operational areas	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.8
MS1237: B11-2		The proponent shall implement and comply with the endorsed Water Resource Management Plan referred to in condition B11-1	Report implementation and operation activities in the CAR	CAR Survey of operational areas	Extended Mining Areas	30 September annually	NR	Section 4.5.8
MS1237: B11-3		The proponent shall make the endorsed Water Resource Management Plan referred to in condition B11-1 publicly available on the proponent's website	Publish the Water Resource Management Plan on the South32 web page	Plan available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.5.8
MS1237: B12-1		The proponent must ensure the implementation of the proposal achieves the following environmental outcomes: (1) disturb no more than 3,855 ha of native vegetation, 604 ha of rehabilitation vegetation and 74 ha of plantation vegetation after the date of this Statement. (2) ensure no disturbance or adverse impacts to: (a) threatened flora including *Caladenia hopperiana*; (b) *Caladenia caesarea* subsp. Mooradung; (c) *Papistylus intropubens and Synaphea panhesya*; (d) the Mount Saddleback Heath Communities Priority Ecological Community and vegetation type G4; (e) other significant vegetation; (f) other significant flora unless authorised by the CEO; and (g) old growth forest. (3) ensure no disturbance or adverse impacts to more than: (a) 2% of the known population of *Calytrix simplex* subsp. Simplex; (b) 8% of the known population of *Gastrolobium* sp. Prostrate Boddington; (c) 2% of the known population of *Hibbertia ambita*, until it can be demonstrated that more than 100 individuals have been recorded, in which case 10% of the known population; (d) 2% of the known population of *Halgania corymbosa*, until it can be demonstrated that more than 100 individuals have been recorded, in which case 10% of the known population; (e) 11.9 ha of Williams vegetation complex after the date of this Statement; and (f) 332.5 ha of Michibin vegetation complex after the date of this Statement. (4) ensure that the proposal does not cause or contribute to the introduction and/or spread of forest disease, including *Phytophthora cinnamomi*, outside of areas identified as infected by the pre-clearance surveys required by condition B12-3.	Implement the proposal in accordance with the requirements, including implementing the FVEMP	FVEMP CAR Results of pre-clearance surveys Survey of cleared operational areas	Overall	30 September annually	C C C C	FVMP Section 4.6 Table 4-5 Section 4.6.2.1

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
MS1237: B12-2		The proponent shall implement the proposal to achieve the following environmental objective: (1) Avoid where practicable or otherwise minimise indirect impacts to flora and vegetation including but not limited to impacts from forest disease, dust, weeds, fire, changes in groundwater and surface water and fragmentation	Implement the proposal in accordance with the requirements, including implementing the FVEMP	FVEMP CAR Flora monitoring reports	Overall	30 September annually	C	FVMP Section 4.6
MS1237: B12-3		Prior to clearing each area to be disturbed in the PAA, the proponent shall undertake surveys and forest disease mapping of that area consistent with DBCA's Phytophthora Dieback Interpreters Manual for Lands Managed by the Department and with DBCA's Phytophthora Dieback Management Manual, as amended or replaced from time to time.	Implement the FVEMP	FVEMP CAR Dieback Monitoring Reports	Overall	30 September annually	C	FVMP; Section 4.6.1, Section 4.6.2.1, Section 4.6.3
MS1237: B12-4		Prior to clearing each area to be disturbed in the PAA, the proponent shall map the extent of old growth forest of that area in accordance with DBCA's Procedures for the assessment, identification and demarcation of old-growth forest, as amended or replaced from time to time	Implement the FVEMP	FVEMP CAR Flora monitoring reports	Overall	30 September annually	C	FVMP; Section 4.6.1 Section 4.6.3
MS1237: B12-5		Prior to clearing each area to be disturbed in the PAA, the proponent must undertake targeted pre-clearance vegetation and flora survey(s) of that area, in accordance with Technical guidance – Flora and vegetation surveys for environmental impact assessment, or any approved updates of these guidelines. Targeted pre-clearance surveys shall: (1) target the following species and communities, but is not limited to: (a) threatened flora; (b) priority flora; (c) new species, or undescribed species; and (d) threatened and priority ecological communities and vegetation type G4. 2) require appropriate botanists with demonstrated experience in orchid surveys in the bioregion, for pre-clearance surveys of *Caladenia caesarea* subsp. Mooradung and threatened orchid species, including *Caladenia hopperiana*.	Implement the FVEMP	FVEMP CAR Pre-clearance survey reports	Overall	30 September annually	C	FVMP; Section 4.6.1 Section 4.6.3
MS1237: B12-6		In order to meet the outcomes of condition B12-1, objectives of condition B12-2 and satisfy the requirements of condition C4, within twelve (12) months from the date of this Statement, and annually thereafter, the proponent shall prepare and submit an annual Flora and Vegetation Environmental Management Plan and submit it to the CEO on advice from DBCA. This plan shall: (1) include details of the timing, methods, limitations, survey effort and results of the pre-clearance surveys required by conditions B12-3, B12-4 and B12-5 and demonstrate how the findings of the survey(s) have been considered, including identification of mitigation measures; (2) demonstrate buffer zones are appropriately sized to adequately protect the environmental values listed in conditions B12-1(2) and B12-1(3), from the effects of forest disease, dust, weeds, changes in groundwater and surface water and fragmentation; and (3) include actions to ensure that forest disease, dust, weeds, fire, changes in groundwater and surface water and fragmentation, are appropriately managed to ensure the environmental outcomes listed in conditions B12-1(2) and B12-1(3) are met.	Prepare and submit the FVEMP to the CEO	EO submission receipt (or other evidence of submission)	Overall	Prior to ground disturbing activities commencing	C	Section 4.6.1
MS1237: B12-7		The proponent shall not commence ground disturbing activities within an area subject to the annual Flora and Vegetation Environmental Management Plan under condition B12-6, unless that plan has been approved by the CEO	Submit the FVEMP for approval	EO submission receipt (or other evidence of submission) Approval of Plan from the CEO	Overall	Prior to commencing ground disturbing activities	C	Section 4.6.1
MS1237: B13-1	Terrestrial Fauna – PAA	The proponent must ensure the implementation of the proposal achieves the following environmental outcomes: (1) disturb no more than the following environmental values after the date of this Statement: (a) 276 ha of the Quindanning Timber Reserve; (b) 2,033 ha of woylie (*Bettongia penicillata ogilbyi*) habitat which includes no more than 1,898 ha of the habitat shown in Figure 7; (c) 4,324 ha of numbat (*Myrmecobius fasciatus*) habitat; (d) 4,533 ha of black cockatoo foraging habitat; (e) 0 (zero) trees being used, or that have evidence of use, by black cockatoos for breeding, shown in Figure 8, or as identified by pre-	Implement the FVEMP and CSFMP	FVEMP & CSFMP CAR Operational clearing survey results	Overall	30 September annually	C	Section 4.7: Section 4.7.2 Table 4-11 Table 4-12 Table 4-13 Table 4-15 Section 4.7.4

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		clearance surveys required by condition B13-4(1), unless the proponent has: (i) submitted a written notice to the CEO documenting a proposal to clear such a tree or trees; (ii) included in the notice referred to in condition B13-1(1)l(i) evidence that the tree or trees cannot be reasonably avoided; (iii) included in the notice referred to in condition B13-1(1)l(i) an appropriate procedure that will be followed to ensure no black cockatoos will be present in the tree or trees at the time of the proposed clearing; and (iv) within twenty-one (21) days of the submission of the notice referred to in condition B13-1(1)l(i) not received advice from the CEO that the proposed clearing is not authorised, in which case the proponent may remove up to 24 trees covered by a notice issued under B13-1(1)l(i). (f) 4,459 ha of chuditch (*Dasyurus geoffroii*) habitat; (g) 135 ha of western ringtail possum (*Pseudocheirus occidentalis*) habitat; (h) 135 ha of quokka (*Setonix brachyurus*) habitat; and (i) 245 ha of the red-tailed phascogale (*Phascogale calura*) habitat shown in Figure 9. (2) ensure ongoing viability of the woylie (*Bettongia penicillata ogilbyi*) population recorded at the Hotham North mine region shown in Figure 11 is not lost due to the proposal; (3) Ensure ongoing viability of any numbat *(Myrmecobius fasciatus*) population(s) recorded at the Hotham North and Marradong Timber Reserve mine regions shown in Figure 11 is not lost due to the proposal; (4) ensure no disturbance to: (a) the buffers identified by condition B13-4(2) for trees being used, or that have evidence of use, by black cockatoos for breeding (excluding the up to 24 trees referred to in condition B13-1(1)l); (b) peregrine falcon (*Falco peregrinus*) nests including a 30 m buffer unless the tree has not been used over two consecutive breeding seasons; (c) known records of significant short-range endemic fauna where those fauna are only known from the PAA unless they are known to occur within the protected areas or ecological linkages shown in Figure 4 and Figure 5 respectively; and (d) the offset values listed in Table 1 of condition B15-5 that intersect the PAA excluding any disturbance caused for the purpose of undertaking ecological restoration.					
MS1237: B13-2		The proponent shall implement the proposal to achieve the following environmental objectives: 1) minimise the risk of physical injury or mortality from construction activities on native fauna; and 2) minimise the risk of behavioural changes, health impacts, physical injury or mortality from construction activities on native fauna	Implement the proposal in accordance with the requirements, including implementing the FVEMP & CSFMP	FVEMP CSFMP CAR	Overall	30 September annually	C	Section 4.7.2, Table 4-12
MS1237: B13-3		Within the first twelve (12) months from the date of this Statement, the proponent shall commence: (1) woylie (*Bettongia penicillata ogilbyi*) surveys over the Hotham North mine region shown in Figure 11; and (2) numbat *(Myrmecobius fasciatus*) surveys over the Hotham North and Marradong Timber Reserve mine regions shown in Figure 11; to determine the baseline population size during implementation of the proposal and to inform reporting associated with the Conservation Significant Fauna Environmental Management Plan required by condition B13-7	Undertake surveys within 12 months of the date of the statement	Survey Reports CAR	Overall	30 September annually	C	Section 4.7.4.1 FY25 CAR
MS1237: B13-4		Prior to clearing each area to be disturbed in the PAA, the proponent shall undertake the following actions: (1) within seven (7) days prior to clearing, using a fauna spotter with experience in surveying for black cockatoos, inspect the area for potential breeding trees, and identify suitable hollows and determine if they are being used, or have evidence of use, by black cockatoos for breeding; (2) except where the tree is to be disturbed as one of the 24 trees referred to in condition B13-1(1)l, identify the site-specific buffer (minimum of 30 metre radius from the base of the tree, unless advised otherwise in writing	Implement the CSFMP	CSFMP CAR Fauna Survey reports, pre-clearing check sheets	Overall	30 September annually	C	Section 4.7.1 Section 4.7.3.1

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		by the CEO for the purposes of Critical infrastructure) that should be applied to each identified tree that is being used or has evidence of use by black cockatoos for breeding, to ensure its viability for breeding use is not lost due to the proposal; and 2) (3) identify which trees with suitable hollows that are not being used and do not show evidence of use by black cockatoos for breeding cannot be avoided, and document the reasons.						
MS1237: B13-5		The proponent shall make the methodology and findings of the inspections and buffer and avoidance determinations under conditions B13-4(1), B13-4(2) and B13-4(3), publicly available annually in a summary document on the proponent's website	Make the methodology and survey findings available on the South32 website	Plan available on web page	Overall	Annually	C	Section 4.7.3 Appendix 5: Black Cockatoo Hollows – Methodology and Findings
MS1237: B13-6		During clearing activities in the PAA, the proponent shall undertake the following actions: 1) ensure the presence of fauna handlers to ensure condition B13-6(2) is met; 2) cease clearing activities in any area where woylie (*Bettongia penicillata ogilbyi*), numbat (*Myrmecobius fasciatus*), chuditch (*Dasyurus geoffroii*), western ringtail possum (*Pseudocheirus occidentalis*), quokka (*Setonix brachyurus*) or red-tailed phascogale (*Phascogale calura*) individual(s) are identified until: (a) the individual(s) has been relocated by a fauna handler; or (b) the individual(s) has been observed by the fauna handler to have moved on from the area to adjoining suitable habitat; and/or (c) the fauna handler considers that the individual no longer occurs in the area	Implement the CSFMP	CSFMP CAR Pre-clearance clearing check sheets	Overall	30 September annually	C	Section 4.7.4.2
MS1237: B13-7		The proponent must prepare a Conservation Significant Fauna Environmental Management Plan to minimise and monitor impacts to conservation significant fauna from the proposal and submit it to the CEO for approval on advice from DBCA. The Conservation Significant Fauna Environmental Management Plan must: (1) demonstrate how impacts to conservation significant fauna from habitat fragmentation, mine operations and predation by feral animals will be minimised; (2) describe the following: (a) the feral predator monitoring and management actions to be undertaken; (b) the monitoring and management of ecological linkages to be undertaken; (c) the monitoring and management of relocated animals; (d) the conservation significant fauna monitoring to be undertaken including at both impact and control sites; and (e) the contingency actions to be taken in the event of a decline to conservation significant fauna attributable to the proposal. (3) Include a definition for ongoing viability of the woylie as referred to in condition B13-1(2) and a definition for ongoing viability of the numbat as referred to in condition B13-1(3). (4) Include a definition for inspect as referred to in condition B13-4.	Prepare and submit the CSFMP to the CEO	EO submission receipt (or other evidence of submission) Written confirmation from CEO of approval of the CSFMP	Overall	Prior to ground disturbing activities commencing	C	Section 4.7.1
MS1237: B14-1	Rehabilitation & Closure – PAA	The proponent must ensure the implementation of the proposal achieves the following environmental outcomes: (1) rehabilitated landforms are stable and do not cause pollution or environmental harm; (2) rehabilitated vegetation is self-sustaining; (3) rehabilitated drainage lines are stable, not prone to erosion, and support ecological processes; (4) areas for which rehabilitation commences after the date of this Statement are rehabilitated to be consistent with the species diversity and abundance of native vegetation within comparative analogue or reference sites; (5) rehabilitated areas for which rehabilitation commences after the date of this Statement are rehabilitated to be consistent with the species diversity and abundance of fauna within comparative analogue or reference sites; (6) areas of State forest for which rehabilitation commences after the date of this Statement shall be rehabilitated with coarse woody debris consistent with comparative analogue or reference sites, to provide habitat for threatened fauna species, as soon as practicable and within twenty-four (24) months after commencing rehabilitation;	Implement proposal in accordance with the required environmental outcomes. Report on outcomes in Annual Rehabilitation Plan, submitted as an Appendix to the CAR	Annual Rehabilitation Plan Rehabilitation monitoring reports	Overall	30 September annually	C	Section 4.11

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(7) areas for which rehabilitation commenced before the date of this Statement are rehabilitated to be consistent with the agreed completion criteria that applied at the time the rehabilitation commenced. (8) prioritise rehabilitation areas, including specific targets for minimum timeframes from disturbance to rehabilitation, to reduce fragmentation and edge effects on remnant native vegetation; (9) prioritise rehabilitation areas, including specific targets for minimum timeframes from disturbance to rehabilitation, to enhance fauna ecological linkages; (10) monitoring of agreed biodiversity indicators and agreed completion criteria in consultation with DBCA and to the satisfaction of the CEO, and undertake independent review of biodiversity indicators and completion criteria every five years following implementation of the proposal; (11) annual reporting on agreed biodiversity indicators and agreed completion criteria; (12) annual reporting on hectares rehabilitated; and (13) demonstrate that closure planning and rehabilitation are being undertaken in a progressive manner consistent with achievement of the above outcomes during operations, where practicable, and as soon as practicable upon closure.						
MS1237: B14-2		The proponent must prepare and submit a Rehabilitation Performance Report, within twelve (12) months of the issue of this Statement, and submit for approval to the CEO on advice from the DEMIRS and DBCA. The Rehabilitation Performance Report shall: (1) provide the results and analysis of long-term rehabilitation performance since mining commencement; (2) provide proposed biodiversity indicators and proposed completion criteria which, on approval of the CEO, may become agreed biodiversity indicators and agreed completion criteria; (3) provide historical results and outcomes of rehabilitation research and trials that were undertaken, targeting key issues facing the rehabilitation of bauxite mined areas; (4) provide a discussion of the results of past performance, research and trials, outcomes and improvement strategies; and (5) demonstrate how results of long-term rehabilitation performance have been used to inform proposed biodiversity indicators and completion criteria in condition B14-2(2), to ensure they are adaptive, evidence-based, effective, and achievable. (6) detail the agreed completion criteria applicable to rehabilitation that commenced before the date of this Statement.	Prepare and submit a Rehabilitation Performance Report and submit for approval to the CEO	Rehabilitation Performance Report EO submission receipt (or other evidence of submission) Approval from the CEO	Overall	Before 20 December 2025	C	Section 4.11.2
MS1237: B14-3		The proponent must prepare and submit an annual Rehabilitation Plan, by 30 September each year following the issue of this Statement, that satisfies the requirements of condition C4, to ensure the environmental outcomes required by condition B14-1 are achieved and submit for approval to the CEO. The plan shall: (1) report whether the environmental outcomes specified in condition B14-1 were achieved; (2) compare environmental values identified in condition B14-1(4), B14-1(5), B14-1(8), B14-1(9) and B14-1(11) annually; (3) include progress against agreed completion criteria and agreed biodiversity indicators; (4) identify actual progressive rehabilitation against schedule of progressive rehabilitation; (5) include research, trials and monitoring programs, targeting key issues in rehabilitation, to improve rehabilitation techniques, practices and outcomes; (6) provide results of research, trials and monitoring programs for rehabilitation; (7) demonstrate how outcomes from previous research, trials and monitoring programs have been incorporated into rehabilitation techniques and practices; (8) ensure that planning and implementation of rehabilitation is carried out in a manner consistent with relevant objectives and strategies in the Forest Management Plan 2024 – 2033, as amended or replaced from time to time; (9) include pest and disease control and management;	Prepare and submit an annual Rehabilitation Plan and submit as an appendix to the CAR	Annual Rehabilitation Plan reporting included in CAR	Overall	30 September annually	C	Section 4.11.3

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(10) include topsoil management; (11) include climate change consideration; and (12) include rehabilitation monitoring, an adaptive management framework and continuous improvement strategies.						
MS1237: B14-4		The proponent must continue rehabilitation to achieve the outcomes required by condition B14-1 until the CEO confirms by notice in writing that it has been demonstrated that the relevant requirements in condition B14-1 have been met.	Continue to undertake rehabilitation to achieve the outcomes until the CEO has confirmed in writing that the outcomes have been met	Written evidence provided from the CEO that the outcomes under condition B14-1 have been met	Overall	Lifetime of Proposal	C	Section 4.11
MS1237: B15-1	Environmental Offsets – PAA	The proponent must implement offsets to counterbalance the significant residual impacts of the proposal on the following environmental values: (1) 2,033 ha of woylie (*Bettongia penicillata ogilbyi*) habitat; (2) 4,324 ha of numbat (*Myrmecobius fasciatus*) habitat; (3) 4,533 ha of black cockatoo habitat including up to 24 trees being used, or that have evidence of use, by black cockatoos for breeding where that clearing is authorised by the CEO under condition B13-1(1)I; (4) 4,459 ha of chuditch (*Dasyurus geoffroii*) habitat; (5) 135 ha of western ringtail possum (*Pseudocheirus occidentalis*) habitat; (6) 135 ha of quokka (*Setonix brachyurus*) habitat; (7) 245 ha of red-tailed phascogale (*Phascogale calura*) habitat; (8) 11.9 ha of Williams vegetation complex; and (9) 332.5 ha of Michibin vegetation complex.	Prepare Offset EMPs as required (LOEMP, WOEMP, ROEMP & REMP) Report on offset implementation in the CAR	Offset EMPs (LOEMP, WOEMP, ROEMP & REMP) CAR Survey of operational areas	Overall	As required	C	Section 4.12
MS1237: B15-2		The proponent must ensure the implementation of the offsets achieves the following environmental outcomes and objectives: (1) protection and enhancement of no less than 4,384 ha of remnant vegetation in perpetuity; (2) ecological restoration and protection in perpetuity of no less than 4,962 ha of agricultural land to ensure a net-gain in numbat, black cockatoo, chuditch, western ringtail possum, quokka and red-tailed phascogale habitat; (3) ecological restoration and protection in perpetuity of no less than a further 3,000 ha of agricultural land in the Williams River and Hotham River (including Bannister River, Wandering Brook & 14 Mile Brook) catchments shown in Figure 10; (4) installation of three artificial breeding hollows for every tree cleared that is being used, or that has evidence of use, by black cockatoos for breeding, where that clearing is authorised by the CEO under condition B13-1(1)I; (5) protection of a woylie population that is at least double the size of the number of individuals impacted; and (6) contribute to key knowledge gaps, identified in consultation with DBCA, relating to the environmental values being impacted identified under condition B15-1, to ultimately assist with maintenance of the ongoing ecological integrity of the Northern Jarrah Forest Interim Biogeographic Regionalisation of Australia Sub- region.	Prepare Offset EMPs in accordance with the requirements (LOEMP, WOEMP, ROEMP & REMP) Report on offset implementation in the CAR	Offset EMPs (LOEMP, WOEMP, ROEMP & REMP) Acceptance of Offset EMP's by CEO CAR Offset surveys including area and outcomes (Spatial areas and biological surveys) Conservation covenants on title	Overall	As required	C	Section 4.12
MS1237: B15-3		The proponent must implement the offsets in a manner that ensures: (1) the amount (in hectares) of habitation protection and ecological restoration in the first five (5) years after the date of this Statement exceeds by a factor of two the amount (in hectares) of clearing of native vegetation within the PAA carried out in the first five (5) years after the date of this Statement. (2) the amount of ecological restoration in the first five (5) years after the commencement of clearing activities after the date of this Statement exceeds 700 ha; and (3) the amount (in hectares) of ecological restoration in the 10 years following the period referred to in condition B15-3(1) exceeds by a factor of two (2) the amount (in hectares) of clearing of native vegetation within the PAA carried out in the 10 years following the period referred to in condition B15-3(1).	Implement the LOEMP	LOEMP CAR Offset spatial surveys Conservation covenants	Overall	30 September annually	C	Section 4.12.1
MS1237: B15-4	Local Offsets Environmental Management Plan	The proponent must prepare a Local Offset Environmental Management Plan that demonstrates how the environmental outcomes and objectives in conditions B15-2(1), B15-2(2) and B15-2(4) will be achieved, monitored and substantiated, and submit it to the CEO.	Prepare LOEMP and submit to the CEO	LOEMP EO submission receipt (or other evidence of submission)	Overall	Before commencing ground disturbing activities	C	Section 4.12.1

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
MS1237: B15-5		The Local Offset Environmental Management Plan must include the implementation of the offset measures to the extent and at the locations as set out and described in Table 1 (of MS1237)	Prepare LOEMP in accordance with the requirements to include the location described in Table 1	LOEMP	Overall	Before commencing ground disturbing activities	C	Table 4-47 Table 4-48
MS1237: B15-6		The Local Offset Environmental Management Plan shall: (1) demonstrate that the environmental outcomes and objectives in conditions B15-2(1), B15-2(2) and B15-2(4) will be met; (2) describe how the offset measures will be implemented consistent with condition B15-5; (3) be prepared in consultation with DBCA; (4) spatially identify the areas (Proposed Local Offset Conservation Areas) in condition B15-5 proposed as: (a) acquired lands offset areas; (b) acquired lands offset areas to receive on-ground management offset measures; (5) demonstrate how the environmental values within the Proposed Local Offset Conservation Areas will be maintained, enhanced, managed and restored in order to counterbalance the significant residual impacts to the environmental values in condition B15-1 and achieve the environmental outcomes and objectives in conditions B15-2(1), B15-2(2) and B15-2(4); (6) demonstrate application of the principles of the WA Environmental Offsets Policy and the Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy, or any subsequent revisions of these documents (7) identify how the ongoing performance of the offset measures, and whether they are achieving the outcomes and objectives in conditions B15-2(1), B15-2(2) and B15-2(4), will periodically be made publicly available; (8) for the land acquisition offsets identified in condition B15-5: (a) demonstrate that the Proposed Local Offset Conservation Areas contain the minimum extents of the environmental values identified in condition B15-5; (b) identify how the Proposed Local Offset Conservation Areas will be protected, being either the sites are ceded to the Crown for the purpose of management for conservation, or the sites are managed under other suitable mechanism for the purpose of conservation; (c) specify the quantum of works associated with establishing the Proposed Local Offset Conservation Areas including for maintaining the offset for at least twenty (20) years; and (d) identify the relevant management body for the on-going management of the Proposed Local Offset Conservation Areas, including its role, and the role of the proponent, and confirmation in writing that the relevant management body accepts responsibility for its role. (9) For on-ground management offsets identified in condition B15-5: (a) state the targets for each environmental value to be achieved by the on-ground management, including completion criteria, which will result in a tangible improvement to the environmental values being offset, including, but not limited to: (i) black cockatoo foraging within eight (8) years of restoration; (ii) chuditch, western ringtail possum and quokka presence within 10 years of restoration; (iii) red-tailed phascogale presence within 20 years of restoration; (iv) numbat presence within 20 years of restoration where that restoration could support the population(s) identified in accordance with condition B13-3(2); (v) completion criteria to measure (at a minimum) species diversity, abundance/distribution, habitat structure and vegetation condition; (vi) adaptive management to inform successful restoration; and (vii) use of artificial breeding hollows by black cockatoos (b) demonstrate the consistency of the targets with the environmental outcomes and objectives in conditions B15-2(1), B15-2(2) and B15-2(4) and the objectives of any relevant guidance, including but not limited to, recovery plans or area management plans; and (c) detail the on-ground management actions, with associated timeframes for implementation and completion, to achieve the targets identified in condition B15-6(9)(a) and the requirement of condition B15-3.	Prepare LOEMP in accordance with the requirements	LOEMP Offset biological surveys	Overall	Before commencing ground disturbing activities	C	LOEMP Section 4.12.1

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(10) detail the monitoring, reporting and evaluation mechanisms for the targets and actions identified under condition B15-6(9)(a) and condition B15-6(9)(c)						
MS1237: B15-7	Regional Offset Environmental Management Plan	The proponent must prepare a Regional Offset Environmental Management Plan that demonstrates how the environmental outcomes and objectives in condition B15-2(3) will be achieved, and how this achievement will be substantiated, and submit it to the CEO.	Prepare ROEMP and submit to the CEO	ROEMP EO submission receipt (or other evidence of submission)	Overall	Before 20 December 2029	NR	Not required at this stage Section 4.12.2
MS1237: B15-8		The Regional Offset Environmental Management Plan must: (1) demonstrate that the environmental outcomes and objectives in condition B15-2(3) will be met; (2) spatially identify the areas, (the Proposed Regional Offset Conservation Areas) to be acquired for on-ground management; (3) demonstrate how the environmental values within the Proposed Regional Offset Conservation Areas will be maintained, enhanced, managed and restored in order to achieve the environmental outcomes and objectives in condition B15-2(3); (4) demonstrate application of the principles of the WA Environmental Offsets Policy, the EPA's public advice 'Considering environmental offsets at a regional scale' and the Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy, or any subsequent revisions of these documents; (5) identify how the ongoing performance of the offset measures, and whether they are achieving the outcomes and objectives in condition B15-2(3), will periodically be made publicly available; (6) identify how the Proposed Regional Offset Conservation Areas to be acquired will be protected, being either the sites are ceded to the Crown for the purpose of management for conservation, or the sites are managed under other suitable mechanism for the purpose of conservation; (7) for offsets acquired specify: (a) a timeframe and works associated with establishing the Proposed Regional Offset Conservation Areas, including a contribution for maintaining the offset for at least twenty (20) years from commencement of on-ground management; and (b) identify the relevant management body for the on-going management of the Proposed Regional Offset Conservation Areas, including its role, and the role of the proponent, and confirmation in writing that the relevant management body accepts responsibility for its role. (8) where on-ground management is proposed: (a) state the targets for each environmental value to be achieved, including completion criteria, which will result in a tangible improvement to the environmental values being offset, including but not limited to: (i) completion criteria to measure (at a minimum) species diversity, abundance/distribution, habitat structure and vegetation condition; and (ii) adaptive management to inform successful restoration. (b) demonstrate the consistency of the targets with environmental outcomes and objectives in condition B15-2(3) and the objectives of any relevant guidance, including but not limited to, recovery plans or area management plans; (c) detail the on-ground management actions, with associated timeframes for implementation and completion, to achieve the targets identified in condition B15-8(8); and (d) detail the monitoring, reporting and evaluation mechanisms for the targets and actions identified under condition B15-8(8) and condition B15-8(8)(c).	Prepare ROEMP in accordance with the requirements	ROEMP	Overall	Before 20 December 2029	NR	Not required at this stage. Section 4.12.2
MS1237: B15-9	Woylie Offset Environmental Management Plan	The proponent must prepare a Woylie Offset Environmental Management Plan that demonstrates how the environmental outcomes and objectives in condition B15-2(5) will be achieved, and how this achievement will be substantiated, and submit it to the CEO.	Prepare WOEMP and submit to the CEO	WOEMP EO submission receipt (or other evidence of submission)	Overall	Before 20 December 2026	NR	Not required at this stage. Section 4.12.3
MS1237: B15-10		The Woylie Offset Environmental Management Plan shall: (1) be prepared in consultation with DBCA; (2) spatially identify the area(s) to receive on-ground management offset measures (the Proposed Woylie Offset Conservation Area);	Prepare WOEMP in accordance with the requirements	WOEMP	Overall	Before 20 December 2026	NR	Not required at this stage. Section 4.12.3

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(3) demonstrate how the environmental values within the Proposed Woylie Offset Conservation Area will be maintained, enhanced, managed and restored in order to achieve the environmental outcomes and objectives in condition B15-2(5); (4) demonstrate application of the principles of the WA Environmental Offsets Policy and the Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy, or any subsequent revisions of these documents; (5) identify how the ongoing performance of the offset measures, and whether they are achieving the outcomes and objectives in condition B15-2(5), will periodically be made publicly available; (6) identify how the Proposed Woylie Offset Conservation Area will be protected, being either ceded to the Crown for the purpose of management for conservation, or managed under other suitable mechanism for the purpose of conservation; (7) identify a timeframe and works associated with establishing the Proposed Woylie Offset Conservation Area, including a contribution for maintaining the offset for at least twenty (20) years from commencement of on-ground management; (8) identify the relevant management body for the on-going management of the Proposed Woylie Offset Conservation Area, including its role, and the role of the proponent, and confirmation in writing that the relevant management body accepts responsibility for its role; (9) where on-ground management is proposed: (a) state the targets for each environmental value to be achieved, including completion criteria, which will result in a tangible improvement to the environmental values being offset; (b) demonstrate the consistency of the targets with environmental outcomes and objectives in condition B15-2(5) and the objectives of any relevant guidance, including but not limited to, recovery plans or area management plans; (c) detail the on-ground management actions, with associated timeframes for implementation and completion, to achieve the targets identified in condition B15-10(9)(a); and (d) detail the monitoring, reporting and evaluation mechanisms for the targets and actions identified under condition B15-10(9)(a) and condition B15-10(9)(c).					
MS1237: B15-11	Research Offset Environmental Management Plan	The proponent must prepare a Research Offset Environmental Management Plan that demonstrates how the environmental outcomes and objectives in condition B15-2(6) will be achieved, and how this achievement will be substantiated, and submit it to the CEO.	Prepare a REPM and submit to the CEO	REPM EO submission receipt (or other evidence of submission)	Overall	Before 20 December 2026	NR	Not required at this stage. Section 4.12.4
MS1237: B15-12		The Research Offset Environmental Management Plan shall: (1) identify the objectives and intended outcomes, and specify the deliverables and completion criteria; (2) identify how the research will result in a positive conservation outcome, and will either improve management and protection or address priority knowledge gaps that have been identified as a research priority needed to improve management and protection of the ecological integrity of the Northern Jarrah Forest Interim Biogeographic Regionalisation of Australia Sub-region; (3) demonstrate the consistency of the objectives in condition B15-12(1) with any relevant guidance, including but not limited to, recovery plans or area management plans, the principles of the WA Environmental Offsets Policy, and the Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy, or any subsequent revisions of these documents; (4) identify and justify how the research will support land acquired and/or on-ground management in achieving a positive conservation outcome; (5) provide an implementation and reporting schedule, including an outline of key activities, all deliverables, stages of implementation, reporting of research results (including interim results), reporting on implementation status, and milestones towards completion criteria; (6) identify the governance arrangements including responsibilities for implementing, and oversight of, the research program, agreements with government agencies, agreements with any third parties, and contingency measures; (7) identify the resources allocated to the research program;	Prepare REMP in accordance with the requirements	REMP	Overall	Before 20 December 2026	NR	Not required at this stage. Section 4.12.4

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(8) identify how a research program summary, and the results (including interim results) of the research program will be communicated and/or published in an open access format; and (9) identify the third party (or third-parties) to carry out the work required to meet the outcomes of condition B15-12(1), who is satisfactory for the role to the CEO. In applying to the CEO for endorsement of the selected third parties, the proponent shall provide demonstration of the track record, experience, qualifications and competencies of the proposed third party to carry out the work and achieve the outcomes.						
MS1237: B16-1	Inland Waters – PAA	The proponent shall ensure the implementation of the proposal achieves the following environmental outcomes: (1) no adverse impacts to conservation significant flora, fauna or ecological communities as a result of surface and/or groundwater changes attributable to the proposal; (2) no adverse impacts to native vegetation within or adjacent to the PAA as a result of surface and/or groundwater changes attributable to the proposal; (3) no adverse impacts to the hydrological regimes and water quality of the Hotham River, Marradong Brook, Augustus River, Murray River, Williams River and Thirty-Four Mile Brook attributable to the proposal; (4) no adverse impacts to groundwater dependent ecosystems within or adjacent to the PAA as a result of surface and/or groundwater changes attributable to the proposal; (5) no disturbance or adverse impacts to native vegetation within 30 m of the Augustus River bank attributable to the proposal; (6) No adverse impacts to neighbouring groundwater users as a result of the proposal.	Implement the Water Management Plan (WMP) Report on compliance with the WMP in the CAR	CAR Biological surveys Water monitoring (including groundwater and surface water) Triennial aquifer review Annual Refinery Water Report	Overall	30 September annually	C	Section 4.8
MS1237: B16-2		The proponent must review and update the Water Management Plan (South32 Worsley Alumina Version 5.4), that satisfies the requirements of condition C4 and demonstrates how achievement of the outcomes in condition B16-1 and B12-1(2)(a) and B12-1(2)(b) will be monitored and substantiated and submit for approval to the CEO prior to implementation of the proposal.	Review and update the WMP. Submit revised version for approval to the CEO prior to commencing ground disturbing activities	WMP EO submission receipt (or other evidence of submission) Approval by the CEO	Overall	Prior to commencing ground disturbing activities	C	Section 4.8.1 FY25 CAR
MS1237: B17-1	Terrestrial Environmental Quality – PAA	The proponent must ensure the implementation of the proposal achieves the following environmental objective: 1) maintain the quality of land and soils so that environmental values are protected.	Implement the CEMP & WMP Report on compliance to the CEMP & WMP in the CAR	CAR Water monitoring results and reports Acid Sulfate soils monitoring in accordance with the CEMP	Overall	30 September annually	C	Section 4.9 Section 4.9.2
MS1237: B17-2		The proponent must ensure the implementation of the proposal achieves the following outcomes: (1) ensure no acid sulfate soil contamination within the PAA or elsewhere attributable to the proposal; (2) ensure no secondary salinity occurs within the PAA or elsewhere attributable to the proposal; and (3) ensure soil compaction and soil quality is remediated as part of rehabilitation and mine closure activities, in line with timing requirements outlined in condition B14 and B2.	Implement the proposal in accordance with the CEMP, WMP & MCP Report on compliance to the CEMP, WMP & MCP in the CAR	CAR Water monitoring results and reports Acid sulfate soils monitoring in accordance with the CEMP Rehabilitation monitoring	Overall	30 September annually	C	Section 4.9.2 Section 4.9.4 Section 4.11.3 Section 4.13
MS1237: B17-3		The proponent must review and update the Construction Environmental Management Plan (South 32 Worsley Alumina Version 0, WOR-71183-FS-PM-PLN-0004), that satisfies the requirements of condition C4 and demonstrates how achievement of terrestrial environmental quality outcomes in condition B17-2 will be monitored and substantiated and how the environmental objective in condition B17-1 will be achieved, and submit for approval to the CEO prior to implementation of the proposal.	Review and update the CEMP. Submit revised version for approval to the CEO prior to commencing ground disturbing activities	CEMP EO submission receipt (or other evidence of submission) Approval by the CEO	Overall	Prior to commencing ground disturbing activities	C	Section 4.9.1 FY25 CAR
MS1237: B18-1	Social Surroundings (Aboriginal Heritage) – PAA	The proponent must ensure the implementation of the proposal achieves the following outcomes: (1) no disturbance to Aboriginal heritage sites within the PAA unless approval is granted to disturb that site under the Aboriginal Heritage Act 1972 and has involved reasonable steps to consult with the GKB AC; and (2) subject to reasonable health and safety requirements, no interruption of ongoing access to land utilised for traditional use or custom by the GKB AC.	Conduct surveys to identify Aboriginal Heritage in accordance with the NSHA Submit applications under the AHA for any disturbance, with prior consultation with the GKBAC in accordance with the NSHA Report surveys in the CAR including a summary of findings and report AHA applications	CAR If required – relevant section 18 applications. Confidential review of surveys	Overall	30 September annually	C	Section 4.10
MS1237: B18-2		The proponent must implement the proposal to meet the following environmental objective:	Conduct surveys to identify Aboriginal Heritage in accordance with the NSHA	CAR	Overall	30 September annually	C	Section 4.10.2

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(1) avoid, where possible, and otherwise minimise adverse impacts to Aboriginal heritage within and surrounding the PAA; and (2) ongoing consultation and engagement with the GKB AC about the achievement of the outcomes and objectives in condition B18-1 and condition B18-2(1) for the life of the proposal.	Report surveys in the CAR including a summary of findings					Section 4.10.3
MS1237: B18-3		Prior to ground disturbing activities, the proponent must identify Aboriginal heritage for all areas proposed to be cleared or indirectly impacted by the proposal in consultation with the GKB AC.	Undertake surveys for activities in accordance with NSHA Report surveys in the CAR	CAR	Overall	30 September annually	C	Section 4.10.1
MS1237: B18-4		The proponent must undertake appropriate engagement with the GKB AC on the Mine Closure Plan(s) required under condition B3-1, at least three (3) months before it is submitted to the CEO.	Engage the GKBAC on development of the Mine Closure Plan, include record of engagement in MCP	Mine Closure Plan	Overall	Within 9 months after the date of MS1237 (30 Sept 2026)	C	Section 4.10.3
MS1237:C1-1	Environmental Management Plans & Monitoring	The proponent must not undertake ground disturbing activities until the CEO has confirmed in writing that the management plans required by conditions B12-6, B13-7, B15-4, B16-2 and B17-3 meet the requirements of those conditions, or as otherwise agreed by the CEO.	Submit WMP, FVEMP, CSFMP, LOEMP & CEMP for approval and do not commence ground disturbing activities until the CEO has confirmed in writing they meet the requirements. Report commencement in CAR	Management Plans EO submission receipt (or other evidence of submission) Written confirmation from CEO CAR	Overall	Prior to commencement of Ground disturbing activities CAR – 30 September annually	C	FY25 CAR Appendix 4
MS1237:C1-2		The Mine Closure Plan(s) required by condition B3-1 must be prepared and submitted for approval within twelve (12) months of the date of this Statement, or as otherwise agreed by the CEO.	Submit Mine Closure Plan within 12 months of the date of the Statement	Mine Closure Plan, including submission letter / EO submission receipt (or other evidence of submission)	Overall	Within 12 months of the date of the Statement	NR	Section 4.13 Appendix 8: Mine Closure Plan Documents
MS1237:C1-3		If the Regional Offset Environmental Management Plan, Woylie Offset Environmental Management Plan and Research Offset Environmental Management Plan required by conditions B15-7, B15-9 and B15-11 respectively have not been submitted for approval by the CEO in the case of the Woylie Offset Environmental Management Plan and the Research Offset Environmental Management Plan, within two (2) years, and in the case of the Regional Offset Environmental Management Plan, within five (5) years of the date of this Statement, all construction activities are to cease immediately. Construction activities may only recommence after the Regional Offset Environmental Management Plan, Woylie Offset Environmental Management Plan and Research Offset Environmental Management Plan are submitted for approval by the CEO, or as otherwise agreed by the CEO.	Submit REMP & WOEMP within 2 years of the date of MS1237; submit ROEMP within 5 years of the date of MS1237	REMP & WOEMP, including submission letter / EO submission receipt (or other evidence of submission) ROEMP, including submission letter / EO submission receipt (or other evidence of submission)	Overall	20 December 2026 20 December 2029	NR	Section 4.12.2 Section 4.12.3 Section 4.12.4
MS1237:C1-4		If, within three (3) years in the case of the Woylie Offset Environmental Management Plan and the Research Offset Environmental Management Plan, and within six (6) years in the case of the Regional Offset Environmental Management Plan, of the date of this Statement, the CEO has not confirmed that the respective plans meet the requirements of conditions B15-8, B15-10 and B15-12 respectively, all construction activities are to cease immediately. Construction activities may only restart after the CEO notifies the proponent that the Regional Offset Environmental Management Plan, Woylie Offset Environmental Management Plan and Research Offset Environmental Management Plan meet the requirements of conditions B15-8, B15-10 and B15-12 respectively, or as otherwise agreed by the CEO.	Engage to have EMP's approved	Written notification from the CEO that the REMP & WOEMP are approved Written notification from the CEO that the ROEMP is approved	Overall	20 December 2027 20 December 2030	NR	Section 4.12.2 Section 4.12.3 Section 4.12.4
MS1237:C2-1		Upon being required to implement the plan(s) under conditions B3-1, B13-7, B15-4, B15-7, B15-9, B15-11, B16-2 and B17-3, or after receiving notice in writing from the CEO that the plan(s) required under conditions B3-1, B12-6, B13-7, B14-3, B15-4, B15-7, B15-9, B15-11, B16-2 and B17-3 satisfies the relevant requirements, the proponent must: (1) implement the most recent version of the confirmed plan; and (2) continue to implement the confirmed plan referred to in condition C2-1(1), other than for any period which the CEO confirms by notice in writing that it has been demonstrated that the relevant requirements for the plan have been met, or are able to be met under another statutory decision-making process, in which case the implementation of the plan is no longer required for that period.	Report on implementation of the EMP's in the CAR	CAR	Overall	30 September annually	C	Section 4.13 Section 4.7.1 Section 4.12.1 Section 4.12.2 Section 4.12.3 Section 4.12.4 Section 4.8.1 Section 4.9.1
MS1237:C2-2		The proponent: (1) may review and revise a confirmed plan provided it meets the relevant requirements of that plan, including any consultation that may be required when preparing the plan;	Review confirmed EMP's as required/requested	Revised EMP EO submission receipt (or other evidence of submission)	Overall	As required	C	FVMP only – Section 4.6.1

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(2) must review and revise a confirmed plan and ensure it meets the relevant requirements of that plan, including any consultation that may be required when preparing the plan, as and when directed by the CEO; and (3) must revise and submit to the CEO the confirmed plan if there is a material risk that the outcomes or objectives it is required to achieve will not be complied with, including but not limited to as a result of a change to the proposal.						
MS1237:C2-3		Despite condition C2-1, but subject to conditions C2-4 and C2-5, the proponent may implement minor revisions to a plan if the revisions will not result in new or increased adverse impacts to the environment or result in a risk to the achievement of the limits, outcomes or objectives which the plan is required to achieve.	Implement minor changes in accordance with the requirement of C2-4 & C2-5		Overall	As required	C	FVMP only – Section 4.6.1
MS1237:C2-4		If the proponent is to implement minor revisions to a plan under condition C2-3, the proponent must provide the CEO with the following at least twenty (20) business days before it implements the revisions: (1) the revised plan clearly showing the minor revisions; (2) an explanation of and justification for the minor revisions; and (3) an explanation of why the minor revisions will not result in new or increased adverse impacts to the environment or result in a risk to the achievement of the limits, outcomes or objectives which the plan is required to achieve.	Update EMP with minor revisions	Marked up EMP with minor revisions Letter of explanation of minor revisions Letter of submission / EO submission receipt (or other evidence of submission)	Overall	20 business days prior to implementing minor revisions	C	Minor revisions were made to the FVMP only over the reporting period Section 4.6.1
MS1237:C2-5		The proponent must cease to implement any revisions which the CEO notifies the proponent (at any time) in writing may not be implemented.	Include in the CAR	Notification from CEO CAR	Overall	As required	C	Letter received from DWER on 23 December 2025 in relation to FVMP V6. In accordance with the requirements of this letter, Worsley did not implement FVMP V6.
MS1237:C2-6		Confirmed plans, and any revised plans under condition C2-4(1), must be published on the proponent's website and provided to the CEO in electronic form suitable for on- line publication by the Department of Water and Environmental Regulation within twenty (20) business days of being implemented, or being required to be implemented (whichever is earlier).	Publish EMP's and minor revisions on South32 web page	EMPs available on web page	Overall	Within 20 business days of being implemented, or being required to be implemented (whichever is earlier)	C	Worsley Alumina Website
MS1237:C3-1	Conditions Related to Monitoring	The proponent must undertake monitoring capable of: (1) substantiating whether the proposal limitations and extents in Part A are exceeded; and (2) detecting and substantiating whether the environmental outcomes identified in Part B are achieved (excluding any environmental outcomes in Part B where a plan is expressly required to monitor achievement of that outcome).	Undertake appropriate monitoring	CAR	Overall	30 September annually	C	Section 4.14
MS1237:C3-2		The proponent must submit as part of the Compliance Assessment Report required by condition D2, a compliance monitoring report that: (1) outlines the monitoring that was undertaken during the implementation of the proposal; (2) identifies why the monitoring was capable of substantiating whether the proposal limitation and extents in Part A are exceeded; (3) for any environmental outcomes to which condition C3-1(2) applies, identifies why the monitoring was scientifically robust and capable of detecting whether the environmental outcomes in Part B are met; (4) outlines the results of the monitoring; (5) reports whether the proposal limitations and extents in Part A were exceeded and (for any environmental outcomes to which condition C3-1 (2) applies) whether the environmental outcomes in Part B were achieved, based on analysis of the results of the monitoring; and (6) reports any actions taken by the proponent to remediate any potential non- compliance.	Submit a CAR that includes all listed information	CAR	Overall	30 September annually	C	Section 4.14
MS1237:C4-1		The plans required under conditions B3-1, B12-6, B13-7,B14-3, B15-4, B15-7, B15-9, B15-11, B16-2 and B17-3 must contain provisions which enable the substantiation of whether the relevant outcomes of those conditions are met, and must include: (1) threshold criteria that provide a limit beyond which the environmental outcomes are not achieved; (2) trigger criteria that will provide an early warning that the environmental outcomes are not likely to be met; (3) monitoring parameters, sites, control/reference sites, methodology, timing and frequencies which will be used to measure threshold criteria and	Required management plans include the criteria required	Approved Management Plans	Overall	Prior to commencement of ground disturbing activities	C	Sections 4.6.1 Section 4.7.1 Section 4.8.1 Section 4.9.1 Section 4.11.3 Section 4.12.1 Section 4.12.2 Section 4.12.3 Section 4.12.4

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		trigger criteria. Include methodology for determining alternate monitoring sites as a contingency if proposed sites are not suitable in the future; (4) baseline data; (5) data collection and analysis methodologies; (6) adaptive management methodology; (7) contingency measures which will be implemented if threshold criteria or trigger criteria are not met; and (8) reporting requirements.						
MS1237:C4-2		The environmental management plan required under condition B16-2 requires a Groundwater Dependent Ecosystem Monitoring Framework that establishes: (1) identification of all areas of groundwater dependent ecosystems and *Caladenia hopperiana* and *Caladenia caesarea* subsp. Mooradung individuals that have the potential to be impacted by the proposal; (2) baseline groundwater monitoring of levels and quality, at groundwater dependent ecosystem locations and Caladenia hopperiana and Caladenia caesarea subsp. Mooradung locations, for not less than twelve (12) months, that addresses, but is not limited to, the following parameters: (a) groundwater levels; (b) electrical conductivity or salinity; (c) pH; (d) nutrient levels (nitrogen and phosphorus); (e) total dissolved solids; and (f) dissolved metals. (3) comparison of monitoring results against comparable regional reference sites, to: (a) distinguish regional climate/drying effects from proposal effects; and (b) provide context for mounding and dryland salinity that may be caused by the proposal. (4) a monitoring procedure for water quality and groundwater levels, and schedule, for the identified locations of groundwater dependent ecosystems and *Caladenia hopperiana* and *Caladenia caesarea* subsp. Mooradung individuals; and (5) whether the trigger and threshold levels contained within the Water Management Plan (South32 Worsley Alumina Version 5.4) and any revisions approved under B16-2 are suitable to meet the outcomes.	Include a Groundwater Dependent Ecosystem Monitoring Framework as part of the Water Management Plan	Approved Water Management Plan	Overall	Prior to commencement of ground disturbing activities	C	WMP Section 4.8.1
MS1237:C4-3		The environmental management plan required under condition B12-6 shall include: (1) annual monitoring of *Caladenia hopperiana* and *Caladenia caesarea* subsp. Mooradung individuals in the PAA. Monitoring is to be undertaken by appropriate botanists with demonstrated experience in orchid surveys in the bioregion. Monitoring shall address, but is not limited to, the following parameters: (a) numbers of individuals; (b) plant health; and (c) vegetation condition. (2) comparison of monitoring results against: (a) the preceding year; and (b) the baseline. (3) For disturbance or adverse impacts to priority flora in condition B12-1(3), a trigger criteria that is less than: (a) 8% for the known population of *Gastrolobium* sp. Prostrate Boddington; (b) 10% where more than 100 individuals have been recorded or 2% where less than 100 individuals have been recorded for the known population of *Hibbertia ambita*; and (c) 2% of the known population of *Halgania corymbosa*, until it can be demonstrated that more than 100 individuals have been recorded, in which case 10% of the known population of *Halgania corymbosa*. (4) For disturbance or adverse impacts to priority flora in condition B12-1(3), a threshold criteria of: (a) 8% for the known population of *Gastrolobium* sp. Prostrate Boddington;	Include the required criteria in the Flora and Vegetation Management Plan	Flora and Vegetation Management Plan	Overall	Prior to commencement of ground disturbing activities	C	FVMP Section 4.6.1

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(b) 10% where more than 100 individuals have been recorded or 2% where less than 100 individuals have been recorded for the known population of *Hibbertia ambita*; and (c) 2% of the known population of *Halgania corymbosa*, until it can be demonstrated that more than 100 individuals have been recorded, in which case 10% of the known population of *Halgania corymbosa*.						
MS1237:C4-4		Without limiting condition C3-1, failure to achieve an environmental outcome, or the exceedance of a threshold criteria, regardless of whether threshold contingency measures have been or are being implemented, represents a non-compliance with these conditions.	Include non-compliances in the CAR	CAR	Overall	30 September annually	NC	Section 5 includes the details of the reported non-compliances
MS1237:C5-1		The plans required under conditions B3-1, B12-6, B13-7, B14-3, B15-4, B15-7, B15-9, B15-11, B16-2 and B17-3 must contain provisions which enable the achievement of the relevant objectives of those conditions and substantiation of whether the objectives are reasonably likely to be met, and must include: (1) management actions; (2) management targets; (3) contingency measures if management targets are not met and (4) reporting requirements.	Draft and have management plans approved which include the required criteria	Management Plans	Overall	Prior to commencement of ground disturbing activities		Section 4.6.1 Section 4.7.1 Section 4.8.1 Section 4,.9.1 Section 4.11.3 Section 4.12.1 Section 4.12.2 Section 4.12.3 Section 4.12.4
MS1237:C5-2		Without limiting condition C2-1, the failure to achieve an environmental objective, or implement a management action, regardless of whether contingency measures have been or are being implemented, represents a non-compliance with these conditions.	Include non-compliances in the CAR	CAR	Overall	30 September annually	C	Section 4.6.1 Section 4.7.1 Section 4.8.1 Section 4,.9.1 Section 4.11.3 Section 4.12.1 Section 4.12.2 Section 4.12.3 Section 4.12.4
MS1237:D1-1	Non-compliance Reporting	If the proponent becomes aware of a potential non-compliance, the proponent must: (1) report this to the CEO within seven (7) days; (2) implement contingency measures; (3) investigate the cause; (4) investigate environmental impacts; (5) advise rectification measures to be implemented; (6) advise any other measures to be implemented to ensure no further impact; and (7) provide a report to the CEO within twenty-one (21) days of being aware of the potential non-compliance, detailing the measures required in conditions D1-1(1) to D1-1(6) above.	Notify the CEO of potential non-compliances in writing Provide a report to the CEO	Written notification Non-compliance report	Overall	Notification within 7 days of becoming aware of a potential non-compliance Report within 21 days of becoming aware of the potential non-compliance	C	Section 5 includes the details of the reported non-compliances
MS1237:D1-2		Failure to comply with the requirements of a condition, or with the content of an environmental management plan required under a condition, constitutes a non-compliance with these conditions, regardless of whether the contingency measures, rectification or other measures in condition D1-1 above have been or are being implemented.	Include non-compliances in CAR	CAR	Overall	30 September annually	C	Section 5 includes the details of the reported non-compliances
MS1237:D2-1	Compliance Reporting	The proponent must provide an annual Compliance Assessment Report to the CEO for the purpose of determining whether the implementation conditions are being complied with.	Provide a CAR to the CEO annually	CAR	Overall	30 September annually	C	This report Section 4.15.3
MS1237:D2-2		Unless a different date or frequency is approved by the CEO, the first annual Compliance Assessment Report must be submitted within fifteen (15) months of the date of this Statement, and subsequent reports must be submitted annually from that date.	Submit a CAR within required timeframe reporting on the previous twelve (12) months	CAR	Overall	30 September annually	C	This report, submitted by 30 Sept 2026 Section 4.15.3
MS1237:D2-3		Each annual Compliance Assessment Report must be endorsed by the proponent's Chief Executive Officer, or a person approved by proponent's Chief Executive Officer to be delegated to sign on the Chief Executive Officer's behalf.	Ensure CAR is endorsed by Proponents CEO or delegate	Endorsement included in the CAR	Overall	30 September annually	C	Page 4
MS1237:D2-4		Each annual Compliance Assessment Report must: (1) state whether each condition of this Statement has been complied with, including: (a) exceedance of any proposal limits and extents;	Submit a CAR within required timeframe reporting on the previous twelve (12) months	CAR	Overall	30 September annually	C	This report

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(b) achievement of environmental outcomes; (c) achievement of environmental objectives; (d) requirements to implement the content of environmental management plans; (e) monitoring requirements; (f) implement contingency measures; (g) requirements to implement adaptive management; and (h) reporting requirements; (2) include the results of any monitoring (inclusive of any raw data) that has been required under Part C in order to demonstrate that the limits in Part A, and any outcomes or any objectives are being met; (3) provide evidence to substantiate statements of compliance, or details of where there has been a non-compliance; (4) include the corrective, remedial and preventative actions taken in response to any potential non-compliance; (5) be provided in a form suitable for publication on the proponent's website and online by the Department of Water and Environmental Regulation; and (6) be prepared and published consistent with the latest version of the Compliance Assessment Plan required by condition D2-5 which the CEO has confirmed by notice in writing satisfies the relevant requirements of Part C and Part D.						
MS1237:D2-5		The proponent must prepare a Compliance Assessment Plan which is submitted to the CEO at least six (6) months prior to the first Compliance Assessment Report required by condition D2-2, or prior to implementation of the proposal, whichever is sooner.	Submit a Compliance Assessment Plan (CAP)	CAP	Overall	Prior to implementation of the Proposal	C	Section 4.15.2
MS1237:D2-6		The Compliance Assessment Plan must include: (1) what, when and how information will be collected and recorded to assess compliance; (2) the methods which will be used to assess compliance; (3) the methods which will be used to validate the adequacy of the compliance assessment to determine whether the implementation conditions are being complied with; (4) the retention of compliance assessments; (5) the table of contents of Compliance Assessment Reports, including audit tables; and (6) how and when Compliance Assessment Reports will be made publicly available, including usually being published on the proponent's website within sixty (60) days of being provided to the CEO.	Submit CAP	CAP	Overall	Prior to implementation of the Proposal	C	Section 4.15.2
MS1237:D3-1	Contact Details	The proponent must notify the CEO of any change of its name, physical address or postal address for the serving of notices or other correspondence within twenty-eight (28) days of such change. Where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State.	Notify the CEO in writing of any change to proponent details	Copy of written notification to CEO of any change in proponent details	Overall	Within twenty-eight (28) days of such a change	NR	Not required during reporting period. Section 4.15.1
MS1237:D4-1	Time Limit for Proposal Implementation	Implementation of the proposal within the extended mining areas must be substantially commenced within fifteen (15) years from the date of this Statement.	Provide evidence to the CEO in writing to demonstrate that the proposal has substantially commenced	CAR	EMAs	Within 15 years from the date of the Statement	NR	Section 4.5.9
MS1237:D4-2		The proponent must provide to the CEO documentary evidence demonstrating that they have complied with condition D4-1 no later than fourteen (14) days after the expiration of the period specified in condition D4-1.	Notify the CEO in writing that activity in the EMAs has substantially commenced	Copy of written notification to the CEO of substantial commencement	EMAs	Within 14 days of the expiration of 15 years from the date of the statement	NR	
MS1237:D4-3		If the proposal within the extended mining areas has not been substantially commenced within the period specified in condition D4-1, implementation of the proposal within the extended mining areas must not be commenced or continued after the expiration of that period.	Commence mining activities in the Extended Mining Areas within 15 years of the date of the statement or do not commence the activities	CAR	EMAs	Within 15 years of the date of the statement	NR	
MS1237:D5-1	Public Availability of Data	Subject to condition D5-2, within a reasonable time period approved by the CEO upon the issue of this Statement and for the remainder of the life of the proposal, the proponent must make publicly available, in a manner approved by the CEO, all validated environmental data collected before and after the date of this Statement relevant to the proposal (including sampling design, sampling methodologies, monitoring and other empirical data and derived information products (e.g. maps)), environmental management plans and	All environmental management plans, data and reports required by MS1237 are made publicly available	CAR	Overall	For life of the of the proposal as approved by the CEO	C	Section 4.15.4

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		reports relevant to the assessment of this proposal and implementation of this Statement.						
MS1237:D5-2		If any data referred to in condition D5-1 contains trade secrets or any data referred to in condition D5-1 contains particulars of confidential information (other than trade secrets) that has commercial value to a person that would be, or could reasonably be expected to be, destroyed or diminished if the confidential information were published, the proponent may submit a request for approval from the CEO to not make this data publicly available and the CEO may agree to such a request if the CEO is satisfied that the data meets the above criteria. In making such a request the proponent must provide the CEO with an explanation and reasons why the data should not be made publicly available.	Letter to CEO requesting not to make sensitive data publicly	Written letter to the CEO Written approval from CEO to exclude data from public availability	Overall	As required	C	Section 4.15.4
MS1237:D5-1	Independent Audit	The proponent must arrange for an independent audit of compliance with the conditions of this statement, including achievement of the environmental outcomes and/or the environmental objectives and/ or environmental performance with the conditions of this statement, as and when directed by the CEO	Independent Audit Report prepared	Independent Audit Report	Overall	As required	NR	Section 4.15.5
MS1237:D5-2		The independent audit must be carried out by a person with appropriate qualifications who is nominated or approved by the CEO to undertake the audit under condition D6-1.	Qualified auditor engaged	Qualifications & Experience of the Independent Auditor included within the report	Overall	As required	NR	Section 4.15.5
MS1237:D5-3		The proponent must submit the independent audit report with the Compliance Assessment Report required by condition D2, or at any time as and when directed in writing by the CEO. The audit report is to be supported by credible evidence to substantiate its findings.	Submission of independent audit report	Independent Audit Report	Overall	As required	NR	Section 4.15.5
MS1237:D5-4		The independent audit report required by condition D6-1 is to be made publicly available in the same timeframe, manner and form as a Compliance Assessment Report, or as otherwise directed by the CEO.	Independent audit report to be made publicly available	Audit report is available on South32 Website with relevant CAR	Overall	Within 60 days of being provided to the CEO	NR	Section 4.15.5

* Status Description include:

- Compliant (C)
- Completed (CLD)
- Not required at this stage (NR)
- Potentially Non-compliant (PNC)
- Non-compliant (NC)
- Not Audited (NA) (for DWER use only)
- Verification Required (VR) (for DWER use only)

6.2 EPBC 2019/8437 AUDIT TABLE

Table 6-2 EPBC 2019/8437 Compliance Audit Table

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition*	EVIDENCE/COMMENTS (CAR Section Reference)
1	The approval holder must not, in the implementation of the Action after the date of this approval:		
1(a)	a) Clear outside the Action Area (except where carried out under other approvals or as required or permitted under legislation).	Compliant	Figure 4-1
1(b)	b) Construct outside the Action Area (except where carried out under other approvals or as required or permitted under legislation).	Compliant	Figure 4-1
1I	c) Clear more than a total of 146.5 hectares (ha) of native vegetation in ecological linkages.	Compliant	Table 4-13
1(d)	d) Clear native vegetation in the protected areas except where approved by the department or where it occurs in the course of:	Compliant	4.6.4
1(d) i	I. ecological restoration or rehabilitation activities;	Compliant	4.6.4
1(d) ii	II. maintenance and decommissioning of infrastructure within the protected areas;	Compliant	4.6.4
1(d) iii	III. environmental monitoring activities (including installation and decommissioning of monitoring equipment and sites); or	Compliant	4.6.4
1(d) iv	IV. activities carried out to ensure compliance with legislation or approvals (including the conditions of this approval).	Compliant	4.6.4
2	The approval holder must not, in the implementation of the Action after the date of this approval clear more than a total of 1,679 ha of degraded and cleared agricultural land, 74 ha of plantation vegetation and 604 ha of rehabilitation vegetation.	Compliant	4.6.2 Table 4-7
3	The approval holder must not, in the implementation of the Action after the date of this approval, clear more than:		
3(a)	a) 1,338 ha of native vegetation within the first five years following commencement of the Action (Mining Tranche 1).	Compliant	4.6.2.2
3(b)	b) 2,517 ha of native vegetation in the period between 5 and 15 years following commencement of the Action (Mining Tranche 2 and 3).	Not Applicable	
4	**Pre 26 June Wording**: The approval holder must comply with condition B12-5 of the Western Australia Approval and ensure that an independent, suitably qualified orchid expert conduct targeted pre-clearance surveys of the Action Area in line with survey guidelines to obtain baseline data of the presence, location and abundance of *Caladenia hopperiana* individuals. **Post 26 June Wording**: The approval holder must comply with condition B12-5 of the Western Australia Approval and in addition to the state condition, ensure that an independent, suitably qualified orchid expert conduct targeted pre-clearance surveys of the Action Area in line with survey guidelines to obtain baseline data of the presence, location and abundance of *Caladenia hopperiana* individuals	Compliant	4.6.3
5	**Pre 26 June Wording**: The approval holder must ensure that an independent, suitably qualified orchid expert conduct targeted pre-clearance surveys of the Action Area in line with survey guidelines to obtain baseline data of the presence, location and abundance of *Diuris micrantha* and *Pultenaea pauciflora* individuals **Post 26 June Wording**: The approval holder must ensure that an independent, suitably qualified orchid expert conducts targeted pre-clearance surveys of the Action Area in line with survey guidelines to obtain baseline data of the presence, location and abundance of *Diuris micrantha* and *Pultenaea pauciflora* individuals	Compliant	4.6.3
6	**Pre 26 June Wording** The approval holder must comply with condition B12-1(2)(a) of the Western Australia Approval and not harm any known *Caladenia hopperiana* individual or populations within the Action Area **Post 26 June Wording**: The approval holder must comply with condition B12-1(2)(a) of the Western Australia Approval and in addition to the state condition, not harm any known *Caladenia hopperiana* individual or populations within the Action Area.	Compliant	4.6.2
7	**Pre 26 June Wording**: Prior to clearing commencing, the approval holder must establish an avoidance area around all identified *Caladenia hopperiana* individuals and populations within the Action Area identified at Attachment I and during the pre-clearance surveys. **Post 26 June Wording**: Prior to clearing commencing, the approval holder must establish an avoidance area around all *Caladenia hopperiana* individuals and populations within the Action Area that are identified at Attachment I or are subsequently identified during the pre-clearance surveys required under condition 4.	Compliant	4.6.4
8	The approval holder must not clear, construct, cause minor disturbance or undertake any other aspect of the Action that may cause harm to any flora protected matter within any avoidance area established in accordance with condition 7. The approval holder must not harm any *Diuris micrantha* or *Pultenaea pauciflora* individual or population within the Action Area.	Compliant	4.6.4
9	Prior to commencing clearing, the approval holder must establish an avoidance area around all *Diuris micrantha* and *Pultenaea pauciflora* individuals and populations within the Action Area identified in the pre-clearance surveys.	Compliant	4.6.4
10	The approval holder must comply with condition B13-4 of the Western Australia approval to the extent that it relates to protected matters.		4.7.3
11	The approval holder must not after the date of this approval clear more than 24 known black cockatoo breeding trees or previously recorded black cockatoo breeding trees.	Compliant	4.7.3

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition*	EVIDENCE/COMMENTS (CAR Section Reference)
12	Prior to commencing clearing, the approval holder must establish a hollow avoidance area around every known black cockatoo breeding tree and previously recorded black cockatoo breeding tree within the Action Area (other than the up to 24 trees that may be cleared in accordance with condition 11).	Compliant	4.7.3
13	To avoid and minimise impacts on black cockatoos, other than as permitted under condition 11, the approval holder must:		
13(a)	a) Not harm any known black cockatoo breeding trees or previously recorded black cockatoo breeding trees and	Compliant	4.7.3
13(b)	b) Not harm, clear or construct within any hollow avoidance area.	Compliant	Figure 4-4
14	The approval holder must comply with condition B13-5 of the Western Australia Approval. The approval holder must publish the information required under condition B13-5 of the Western Australia Approval and the avoidance determinations made under condition 13 of this approval annually on the website.	Compliant	4.7.3 Appendix 5: Black Cockatoo Hollows – Methodology and Findings
15	The approval holder must undertake ongoing monitoring during each breeding season of the previously recorded black cockatoo breeding trees and known black cockatoo breeding trees as identified in pre-clearance surveys. The approval holder must publish the monitoring results annually as part of each compliance report.	Compliant	Section 4.7.3 Appendix 5: Black Cockatoo Hollows – Methodology and Findings
16	Within 6 months prior to any clearing of a part of the Action Area commencing, the approval holder must ensure that a suitably qualified ecologist conducts a pre-clearance survey of that part of the Action Area to detect the presence of Malleefowl mounds. The approval holder must establish an avoidance area around each identified Malleefowl mound.	Compliant	4.7.4.2
17	The approval holder must comply with condition B13-3 of the Western Australia Approval and ensure a suitably qualified ecologist commences within 12 months from the date of this approval, surveys in accordance with the survey guidelines for:		
17(a)	a) Woylie, over the Hotham North mine region to determine the Woylie baseline population; and	Compliant	4.7.4.1
17(b)	b) Numbat, over the Hotham North mine region and the Marradong Timber Reserve to determine the Numbat baseline population.	Compliant	4.7.4.1 (Complete)
18	**Pre 26 June Wording:** The approval holder must ensure that the ongoing viability of any known population of the Chuditch, Quokka, Western Ringtail Possum, and Red-tailed Phascogale, within the Action Area is not lost due to the Action. The approval holder must undertake population viability monitoring to determine, the ongoing viability of the population of the Chuditch, Quokka, Western Ringtail Possum, and Red-tailed Phascogale, within the Action Area where clearing has commenced. **Post 26 June Wording:** The approval holder must ensure that the ongoing viability of any known population of the Chuditch, Quokka, Western Ringtail Possum, and Red-tailed Phascogale, within the Action Area is not lost due to the Action. The approval holder must undertake population viability monitoring to determine, the ongoing viability of the population of the Chuditch, Quokka, Western Ringtail Possum, and Red-tailed Phascogale, within the Action Area where clearing has commenced. The approval holder must include the detailed findings of all population viability monitoring undertaken in the relevant ACR period in each compliance report	Compliant	4.7.4.4
19	To minimise impacts of fragmentation on threatened mammals the approval holder must not:		
19(a)	a) clear or construct within the ecological linkages except to provide a fauna crossing structure or for critical infrastructure.	Compliant	Figure 4-4
19(b)	b) clear, construct or cause harm within any stream buffer.	Compliant	4.6.4
20	**Pre 26 June Wording** During any clearing in the PAA, the approval holder must comply with condition B13-6 of the Western Australia Approval and relocate or allow to move to an adjoining suitable area all protected matters which are fauna, and which are observed in the vicinity of the clearing to adjoining suitable habitat by a fauna handler. **Post 26 June Wording** During any clearing in the PAA, the approval holder must comply with condition B13-6 of the Western Australia Approval and in addition to the state condition, must relocate or allow to move to an adjoining suitable area all protected matters which are fauna, and which are observed in the vicinity of the clearing	Compliant	4.7.4.2
21	The approval holder must cease all clearing taking place in any area where any threatened mammal individual is identified in a pre-clearance survey undertaken less than 24 hours before the clearing is proposed to commence until:		
21(a)	a) the individual has been relocated by a fauna handler; or	Compliant	4.7.4.2
21(b)	b) the individual has been observed by the fauna handler to have moved on from the area to adjoining suitable habitat; and/or	Compliant	4.7.4.2
21(c)	c) the fauna handler considers that the individual no longer occurs in the area.	Compliant	4.7.4.2
22	The approval holder must comply with conditions B13-1(2) of the Western Australia Approval to ensure that the ongoing viability of any known population of Woylie recorded at Hotham North mine region in accordance with condition 17(a) is not lost due to the Action.	Compliant	4.7.4.1
23	The approval holder must comply with conditions B13-1(3) of the Western Australia Approval to ensure that the ongoing viability of any known population of Numbat recorded at Hotham North mine region and Marradong Timber Reserve in accordance with condition 17(b) is not lost due to the Action.	Compliant	4.7.4.1
24	For the life of the approval, the approval holder must minimise impacts to protected matters from dust, weeds, changes in groundwater and surface water, fire effects and fragmentation.	Compliant	4.6.1 4.8.1

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition*	EVIDENCE/COMMENTS (CAR Section Reference)
25	For the life of the approval, the approval holder must not undertake any clearing of native vegetation outside of daylight hours to minimise impacts to threatened mammals and black cockatoos.	Compliant	Table 4-12
26	The approval holder must comply with conditions B12-3 and B12-1(4) of the Western Australia Approval and survey part of the PAA for the presence of dieback to identify the location, extent and severity of any dieback infected area prior to clearing that part of the PAA. The approval holder must ensure that the taking of the Action does not cause or contribute to any spread of dieback outside the extent of dieback infected areas.	Compliant	4.6.2.1
27	To minimise impacts from changes to surface water and groundwater on protected matters, the approval holder must ensure that the implementation of the Action from the date of this approval does not have an adverse impact on groundwater and surface water systems, quantity and quality within the protected areas, ecological linkages, and outside the WMDE and CBME for the life of the approval through adaptive management.	Compliant	4.8.1 4.8.2
28	To achieve condition 27, the approval holder must implement the Water Management Plan for the life of the approval.	Compliant	4.8.1
29	The approval holder must implement the Water Management Plan to manage and protect Carter's Freshwater Mussel from adverse impacts attributable to the Action.	Compliant	4.8.1 4.8.5
30	The approval holder must not disturb or cause any adverse impact to the avoidance area around the Augustus Riverbank.	Compliant	Figure 4-4
31	The approval holder must commence implementation of the Local Environmental Offsets Management Plan no longer than 6 months after commencement of the Action and continue to implement the Local Environmental Offsets Management Plan at least until the expiry date of this approval.	Compliant	4.12.1
32	The approval holder must, within 5 business days of commencing implementation of the Local Environmental Offsets Management Plan, notify the department of the date on which implementation of the Local Environmental Offsets Management Plan commenced.	Compliant	4.12.1
33	The approval holder must not commence the Action unless all the offset sites have been acquired in accordance with condition B15-5 (Table 1) of the Western Australia Approval.	Compliant	4.12.1
34	The approval holder must secure all offset sites in accordance with the Local Environmental Offsets Management Plan.	Compliant	4.12.1
35	The approval holder must achieve the following environmental objectives for Offset 1:		
35(a)	a) Securement of no less than 4,165.4 ha of remnant vegetation;	Not applicable	4.12.1
35(b)	b) Restoration of no less than 432.2 ha to become habitat for Numbat, Black Cockatoo, Chuditch, Western Ringtail Possum and Quokka to a habitat quality of 6 within 20 years of commencement of the Action;	Not applicable	4.12.1
35(c)	c) Restoration of black cockatoo foraging and provide evidence of foraging activities within 8 years of commencing implementation of the Local Environmental Offsets Management Plan;	Not applicable	4.12.1
35(d)	d) An ongoing viable population of Western Ringtail Possum, Chuditch and Quokka present in the area identified in the Local Offsets Environmental Management Plan as the Offset Properties South-West within 10 years of commencing implementation of the Local Environmental Offsets Management Plan;	Not applicable	4.12.1
35(e)	e) An ongoing viable population of Chuditch present in the area identified in the Local Offsets Management Plan as the Offset Properties North-East within 10 years of commencing implementation of the Local Environmental Offsets Management Plan; and	Not applicable	4.12.1
35(f)	f) Suitable foraging and breeding habitat for Numbat in the offset site within 20 years of commencing implementation of the Local Environmental Offsets Management Plan to support a baseline population, if identified in accordance with condition B13-3(2) of the Western Australia Approval.	Not applicable	4.12.1
36	The approval holder must achieve the following environmental objectives for Offset 2:		
36(a)	a) Securement of no less than 218.6 ha of remnant vegetation;	Compliant	4.12.1
36(b)	b) Restoration and securement of no less than 299.8 ha to become habitat for Numbat, Black Cockatoo, Chuditch and Red-tailed Phascogale to a habitat quality of 6 within 20 years of commencement of the Action;	Not applicable	4.12.1
36(c)	c) Restoration of black cockatoo foraging and provide evidence of foraging activities within 8 years of commencing implementation of the Local Environmental Offsets Management Plan;	Not applicable	4.12.1
36(d)	d) An ongoing viable population of Chuditch present in the offset sites within 10 years of commencing implementation of the Local Environmental Offsets Management Plan;	Not applicable	4.12.1
36(e)	e) An ongoing viable population of Red-tailed Phascogale present in the offset sites within 20 years of commencing implementation of the Local Environmental Offsets Management Plan; and	Not applicable	4.12.1
36(f)	f) Establish foraging and breeding habitat for Numbat in the offset sites within 20 years of commencing implementation of the Local Environmental Offsets Management Plan in those areas identified in condition B13-3(2) of the Western Australia Approval where restoration will support the population of Numbat.	Not applicable	4.12.1
37	The approval holder must achieve the following environmental objectives for Offset 3a:		

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition*	EVIDENCE/COMMENTS (CAR Section Reference)
37(a)	a) Restoration and securement of no less than 4,229 ha to become habitat for Numbat, Black Cockatoo and Chuditch, to a habitat quality of 6 within 20 years of commencing restoration activities on any given lot in accordance with the Local Environmental Offsets Management Plan;	Not applicable	4.12.1
37(b)	b) Restoration of black cockatoo foraging and provide evidence of foraging activities within 8 years of commencing restoration activities on any given lot in accordance with the Local Environmental Offsets Management Plan;	Not applicable	4.12.1
37(c)	c) Establish foraging and breeding habitat for Chuditch to demonstrate it is present in the offset sites within 10 years of commencing restoration activities on any given lot in accordance with the Local Environmental Offsets Management Plan;	Not applicable	4.12.1
37(d)	**Pre 26 June Wording** d) Establish foraging and breeding habitat for Red-tailed Phascogale to demonstrate it is present in the offset sites within 20 years of commencing restoration activities on any given lot in accordance with the Local Environmental Offsets Management Plan; and **Post 26 June Wording – deleted**	Not applicable	4.12.1
37(e)	e) Establish foraging and breeding habitat for Numbat in the offset sites within 20 years of commencing restoration activities on any given lot in accordance with the Local Environmental Offsets Management Plan.	Not applicable	4.12.1
38	**Pre 26 June Wording:** The approval holder may apply in writing to the department to change the location of Offset 3a, as set out in the Local Environmental Offset Management Plan. The approval holder must amend the Local Environmental Offset Management Plan and re-submit to the department for Minister Approval. **Post 26 June Wording:** The approval holder may apply in writing to the department to change the location of Offset 3a, as set out in the Local Environmental Offset Management Plan. If the approval holder seeks to change the location of Offset 3a, the approval holder must submit for the Ministers approval a revised version of the Local Environmental Offset Management Plan. Any change to the location of Offset 3a is subject to the Minister's approval of a revised version of the Local Environmental Offset Management Plan including that change.	Not applicable	4.12.1
39	Once the approval holder has achieved each offset outcome specified in conditions 35, 36 and 37, the approval holder must maintain, or exceed, each offset outcome at least until the expiry date of this approval.	Not applicable	4.12.1
40	**Pre 26 June Wording:** Within 40 business days of the 1 October immediately following each 5th anniversary of the commencement of the Action, the approval holder must: **Post 26 June Wording:** Five years after the date of the commencement of the action, and at the end of every five-year period thereafter, the approval holder must:		
40(a)	**Pre 26 June Wording:** a) have an independent suitably qualified ecologist assess the progression of meeting the habitat quality of the restoration sites of Offset 1, Offset 2 and Offset 3a and whether the offset outcomes and timeframes specified in conditions 35, 36, and 37 at the restoration sites of Offset 1, Offset 2 and Offset 3a have been achieved or are likely to be achieved. **Post 26 June Wording:** have an independent suitably qualified ecologist assess the required habitat quality of the restoration sites of Offset 1, Offset 2 and Offset 3a and prepare a report detailing: i) the progress towards achieving the required habitat quality of the restoration sites (Offset 1, Offset 2 and Offset 3a); and ii) whether the offset outcomes and timeframes specified in conditions 35, 36, and 37 at the restoration sites of Offset 1, Offset 2 and Offset 3a have been achieved or are likely to be achieved.	Not applicable	4.12.1
40(b)	**Pre 26 June Wording:** b) Publish on the website the written report of the independent suitably qualified ecologist, including the results prepared under condition 40a. **Post 26 June Wording:** b) Submit the report required by condition 40(a) as part of the next published annual Compliance Report.	Not applicable	4.12.1
41	To compensate for the removal of known black cockatoo breeding trees the approval holder must achieve the following environmental outcomes for Offset 4:		
41(a)	a) Within 6 months of clearing a known black cockatoo breeding tree or previously recorded black cockatoo breeding tree under condition 11, install 3 artificial nest hollows.	Compliant	4.12.1
41(b)	b) Maintain all artificial nest hollows installed in accordance with condition 41(a) at least until the expiry date of this approval;	Compliant	4.12.1
41(c)	c) At least 14% of the artificial nest hollows installed in accordance with condition 41(a) have been successful within 5 years of installation under condition 41a.	Not applicable	4.7.3
41(d)	d) At least 28% of the artificial nest hollows installed in accordance with condition 41(a) have been successful within 10 years of installation under condition 41a.	Not applicable	4.7.3
41(e)	e) At least 42% of the artificial nest hollows installed in accordance with condition 41(a) have been successful within 15 years of installation under condition 41a.	Not applicable	4.7.3
42	The approval holder must complete an annual monitoring report, which details the use of the artificial nest hollows by black cockatoos, and evaluates, at least once each year after the breeding season, any obstacles to the successful breeding of black cockatoos in the artificial nest hollows and applies adaptive management to remove any obstacles.	Not applicable	4.7.3 4.12.1
43	**Pre 26 June Wording:** The approval holder must publish the annual monitoring report relating to Offset 4 on the website. **Post 26 June Wording:** The approval holder must, as part of the annual compliance report, publish the annual monitoring report relating to Offset 4 on the website.	Not applicable	4.12.1
44	To compensate for the residual significant impacts of the Action on Woylie, the approval holder must submit to the department for Minister approval a Woylie Offset Environmental Management Plan within 2 years of the commencement of the Action.	Not applicable	4.12.3
45	**Pre 26 June Wording:** If the Woylie Offset Environmental Management Plan required by condition 44 has not been approved by the Minister within 3 years of commencement of the Action, the approval holder must cease any construction in the Action Area and may only restart after the Minister notifies the approval holder that the Woylie Offset Environmental	Not applicable	4.12.3

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition*	EVIDENCE/COMMENTS (CAR Section Reference)
	Management Plan meets the requirements of conditions B15-8, B15-10 and B15-12 of the Western Australia Approval and condition 46 of this approval. The approval holder must implement the Woylie Offset Environmental Management Plan until the expiry date of this approval. **Post 26 June Wording:** If the Woylie Offset Environmental Management Plan required by condition 44 has not been approved by the Minister within 3 years of commencement of the Action, the approval holder must cease any construction in the Action Area and may only restart after the Minister notifies the approval holder that the Woylie Offset Environmental Management Plan meets the requirements of conditions B15-9 and B15-10 of the Western Australia Approval and condition 46 of this approval. The approval holder must commence implementing the approved Woylie Offset Environmental Management Plan and continue to implement the approval Woylie Offset Environmental Management Plan until at least the expiry date of this approval.		
46	The Woylie Offset Environmental Management Plan must meet the requirements of the Environmental Offsets Policy and the Environmental Management Plan Guidelines to the satisfaction of the Minister.	Not applicable	4.12.3
47	The Woylie Offset Environmental Management Plan must be prepared with advice from a suitably qualified ecologist; prepared in consultation with the DBCA; and, be developed as per condition B15-10 of the Western Australia Approval.	Not applicable	4.12.3
48	**Pre 26 June Wording:** To compensate for the residual significant impacts of the Action on protected matters the approval holder must prepare a Regional Offset Environmental Management Plan. **Post 26 June Wording:** To compensate for the residual significant impacts of the Action on protected matters the approval holder must prepare and implement a Regional Offset Environmental Management Plan as required under condition B15-8 of the Western Australia Approval	Not applicable	4.12.2
49	The approval holder must comply with condition B15-8 of the Western Australia Approval to contribute to providing offsets at a regional scale for protected matters.	Not applicable	4.12.2
50	The approval holder must restore no less than 3,000 ha of agricultural land within the Williams River and Hotham River catchments.	Not applicable	4.12.2
51	The approval holder must make the Regional Offset Environmental Management Plan available to the department within 5 years of the commencement of the Action.	Not applicable	4.12.2
52	If the Regional Offset Environmental Management Plan required by condition 48 has not been made available on the website within 6 years of commencement of the Action, the approval holder must cease any construction in the Action Area until the approval holder has made the Regional Offset Environmental Management Plan available on the website. The approval holder must implement the Regional Offset Environmental Management Plan until the expiry date of this approval.	Not applicable	4.12.2
53	The Regional Offset Environmental Management Plan must be consistent with the Environmental Offsets Policy and the Environmental Management Plan Guidelines; be prepared with advice from a suitably qualified ecologist; be prepared in consultation with the DBCA; and be developed as per condition B15-8 of the Western Australia Approval.	Not applicable	4.12.2
54	To compensate for the residual significant impacts of the Action on protected matters, and to contribute to key knowledge gaps, identified in consultation with DBCA, relating to the environmental values being impacted to ultimately assist with maintenance of the ongoing ecological integrity of the Northern Jarrah Forest Interim Biogeographic Regionalisation of Australia Sub-region, the approval holder must submit a Research Offset Environmental Management Plan to the department within 2 years of the commencement of the Action.	Not applicable	4.12.4
55	If the Research Offset Environmental Management Plan required by condition 54 has not been made available on the website within 3 years of commencement of the Action, the approval holder must cease any construction in the Action Area until the approval holder has made the Research Offset Environmental Management Plan available on the website. The approval holder must implement the Research Offset Environmental Management Plan until the expiry date of this approval.	Not applicable	4.12.4
56	**Pre 26 June Wording:** The approval holder must make the results of the Research Offset Environmental Management Plan available on the website, to DBCA and the department. **Post 26 June Wording:** The approval holder must, as part of the annual compliance report, publish the results of the Research Offset Environmental Management Plan available on the website	Not applicable	4.12.4
57	**Pre 26 June Wording:** The Research Offset Environmental Management Plan must be consistent with the Environmental Management Plan Guidelines; prepared in consultation with the DBCA; and, be developed as per condition B15-12 of the Western Australia Approval. **Post 26 June Wording:** The Research Offset Environmental Management Plan must be consistent with the Environmental Offsets Policy and the Environmental Management Plan Guidelines; prepared in consultation with the DBCA; and, be developed as per condition B15-12 of the Western Australia Approval.	Not applicable	4.12.4
58	The approval holder may choose to revise a plan required to be implemented under condition 28 without submitting it for approval under section 143A of the EPBC Act, if:		A revised version of the LOEMP was submitted
58(a)	a) the taking of the Action in accordance with the revised plan would be consistent with the approved Action,	Compliant	4.12.1
58(b)	b) the taking of the Action in accordance with the revised plan would be consistent with the conditions attached to this approval,	Not Applicable	
58(c)	c) the taking of the Action in accordance with the revised plan would not be likely to have a new or increased impact, and	Not Applicable	
58(d)	d) the approval holder notifies the department electronically that it has prepared a revised version of the plan (the 'revised plan'). In notifying the department, the approval holder must specify each condition which references the plan and provide the department with:	Not Applicable	
58(d) i	i. an electronic copy of the revised plan,	Not Applicable	
58(d) ii	ii. an electronic copy of the revised plan marked up with track changes to show the differences between the plan and the revised plan,	Not Applicable	
58(d) iii	iii. a comprehensive explanation of all differences between the plan and the revised plan,	Not Applicable	

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition*	EVIDENCE/COMMENTS (CAR Section Reference)
58(d) iv	iv. a declaration that the approval holder has read and understands the Guidance on 'new or increased impact' relating to changes to approved management plans under EPBC Act environmental approvals, Commonwealth of Australia 2017,	Not Applicable	
58(d) v	v. a comprehensive analysis and detailed discussion on the likelihood that taking the Action in accordance with the revised plan will not have, or will be not likely to have, a new or increased impact,	Not Applicable	
58(d) vi	vi. written notice of the date on which the approval holder will implement the revised plan (the 'revised plan implementation date'), being at least 30 business days after the date of providing notice of the revision of the plan, or a date agreed to in writing with the department, and	Not Applicable	
58(d) vii	vii. a copy of the compliance report for the latest ACR period and a statement of any relevant history of compliance (including non-compliance) in relation to the plan.	Not Applicable	
58(e)	e) The approval holder must commence implementation of the revised plan from the revised plan implementation date unless otherwise notified in writing by the Minister.	Not Applicable	
59	If the Minister notifies the approval holder that the Minister is satisfied that the taking of the Action in accordance with a plan which has been revised without submitting it for the Minister's approval would be likely to have a new or increased impact, then:		
59(a)	a) the approval holder's ability to revise a plan without submitting the plan for Minister approval does not apply, or ceases to apply, in relation to the revised plan,	Not Applicable	
59(b)	b) the approval holder must implement the plan in force immediately prior to that revised plan or a version of the plan specified by the Minister in the notice, and	Not Applicable	
59(c)	c) the Minister may also notify that, for a specified period, the approval holder's ability to revise a plan without submitting the plan for Minister approval does not apply for one or more specified plans.	Not Applicable	
60	The approval holder may, at any time by giving written notice to the department, revoke its choice to implement a plan which has been revised without submitting it for the Minister's approval. If the approval holder revokes the choice to implement a revised plan, the approval holder must implement the plan in force immediately prior to that revised plan.	Not Applicable	
61	Wherever these conditions require the approval holder to submit any plan to the department, all such plans must be submitted to the department electronically.	Compliant	All required plans were electronically submitted
62	Unless otherwise agreed to in writing by the Minister, the approval holder must publish each plan on the website within 15 business days of the date:	Compliant	
62(a)	a) of this approval, if the version of the plan to be implemented is specified in these conditions,	Compliant	4.15.4
62(b)	b) the plan is approved by the Minister in writing, if the plan requires the approval of the Minister,	Compliant	Required plans have been published to the Worsley Alumina website in accordance with condition
62(c)	c) the plan is approved by a state government official as required under a Western Australia Approval condition which must be complied with in accordance with these EPBC Act conditions, or	Compliant	Appendix 3: Environmental Management Plans
62(d)	d) the plan is submitted to the department in accordance with a requirement of these conditions, if the plan does not require the approval of the Minister	Not Applicable	
63	The approval holder must keep all plans published on the website, in a format that is easily accessible and downloadable, from the first date which that plan must be published and until the expiry date of this approval. This requirement applies to all current and superseded versions of plans.	Compliant	4.15.4 Required plans including superseded versions remain accessible on Worsley Alumina website
64	The approval holder is required to exclude or redact sensitive biodiversity data from any version of a plan before that plan is published on the website or otherwise provided to a member of the public. If sensitive biodiversity data is excluded or redacted from a plan, the approval holder must notify the department in writing what exclusions and redactions have been made in the version published on the website.	Compliant	4.15.4
65	The approval holder must notify the department in writing of any proposed change to the Western Australia Approval that may relate to protected matters within 2 business days of formally proposing such a change and within 5 business days of becoming aware of any proposed change.	Not Applicable	4.2
66	The approval holder must notify the department in writing of any change to the Western Australia Approval conditions that may relate to protected matters, within 5 business days of such a change to conditions coming into effect. Such notification must include a copy of the changed Western Australia Approval conditions showing what changes have been made.	Not Applicable	4.2
67	The approval holder must notify the department electronically in writing of the date of commencement of the Action, within 5 business days following commencement of the Action.	Compliant	0
68	The approval holder must not commence the Action later than 5 years after the date of this approval decision.	Compliant	0
69	The approval holder must notify the department electronically of the date of commencement for each Mining Tranche within 5 business days.	Compliant	4.6.2.2
70	The approval holder must maintain accurate and complete compliance records and document the procedure for recording and storing compliance records.	Compliant	4.15.6 Worsley Alumina has a procedure for location and retention of compliance records.

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition*	EVIDENCE/COMMENTS (CAR Section Reference)
71	If the department makes a request in writing, the approval holder must provide electronic copies of compliance records to the department within the timeframe specified in the request.	Not Applicable	
72	The approval holder must ensure that any monitoring data, surveys, maps, and other spatial and metadata required under the conditions of this approval are prepared in accordance with the *Guidelines for biological survey and mapped data*, Commonwealth of Australia 2018, or as otherwise specified by the Minister in writing.	Compliant	4.15.6
73	The approval holder must ensure that any monitoring data, surveys, maps, and other spatial and metadata required under the conditions of this approval are prepared in accordance with the *Guide to providing maps and boundary data for EPBC Act projects*, Commonwealth of Australia 2021, or as otherwise specified by the Minister in writing.	Compliant	4.15.6
74	The approval holder must submit all monitoring data, surveys, maps, other spatial and metadata and all species occurrence record data (sightings and evidence of presence) electronically to the department within 20 business days of the next anniversary of the date of this approval decision except where otherwise specified in a plan.	Compliant	4.15.6
75	The approval holder must prepare a compliance report for each Annual Compliance Report period (ACR period).	Compliant	1.3.3 4.15.3
76	The approval holder must ensure each compliance report includes:		
76(a)	a) accurate and complete details of compliance and any non-compliance with:	Compliant	Table 6-2
76(a) i	I. each condition imposed under the Western Australia Approval if a condition attached to this approval decision requires compliance with that Western Australia Approval condition,	Compliant	Table 6-2
76(a) ii	II. each condition attached to this approval decision, and	Compliant	Table 6-2
76(a) iii	III. all commitments made in each plan,	Compliant	Table 4-16 Table 4-17 Table 4-47 Table 4-48
76(b)	b) a schedule of all plans in effect in relation to these conditions during the ACR period,	Compliant	Appendix 11: Schedule of Plans in Effect - EPBC 2019/8437 Condition 76(b)
76(c)	c) accurate and complete details of how each plan was implemented during the ACR period, and	Compliant	4.8 4.12
76(d)	d) if any incident occurred, accurate and complete details of each incident	Compliant	5.1
77	The approval holder must ensure each compliance report is completed to the satisfaction of the Minister and is consistent with the Annual Compliance Report Guidelines, Commonwealth of Australia 2023.	Compliant	1
78	**Pre 26 June Wording** The approval holder must, within 20 business days following the end of each ACR period, in a format that is easily accessible and downloadable, publish on the website: **Post 26 June Wording** The approval holder must, within 70 business days following the end of each ACR period, in a format that is easily accessible and downloadable, publish on the website	Compliant	4.15.4
78 (a)	**Pre 26 June Wording:** a) each compliance report, and **Post 26 June Wording:** a) each compliance report, containing all information required by condition 76(a);	Compliant	4.15.4
78 (b)	**Pre 26 June Wording:** b) a shapefile showing all clearing of protected matters, and their habitat, undertaken within the ACR period. **Post 26 June Wording:** b) each compliance report, containing all information required by condition 76(a);	Compliant	Appendix 2: GIS Information
78 (c)	**NEW** **Post 26 June Wording:** c) research and reports under conditions 18, 40, 43 and 56.		4.7.4.4 Conditions 40, 43 & 56 not yet relevant
79	The approval holder must:		
79(a)	a) Exclude or redact sensitive biodiversity data from each compliance report and shapefile published on the website or otherwise provided to a member of the public.	Not Applicable	4.15.4
79(b)	b) If sensitive biodiversity data is excluded or redacted from a version of a compliance report published or otherwise provided to a member of the public, submit the full compliance report to the department within 5 business days of its publication on the website and notify the department in writing what exclusions and redactions have been made in the version published on the website or otherwise provided to a member of the public	Not Applicable	4.15.4

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition*	EVIDENCE/COMMENTS (CAR Section Reference)
79(c)	c) If sensitive biodiversity data is excluded or redacted from a version of a shapefile published or otherwise provided to a member of the public, submit the full shapefile to the department within 5 business days of its publication on the website and notify the department in writing what exclusions and redactions have been made in the version published on the website or otherwise provided to a member of the public.	Not Applicable	4.15.4
80	The approval holder must notify the department electronically, within 5 business days of each date of publication that the compliance report has been published on the website. In this notification, the approval holder must provide the department with the web address for where the compliance report and related shapefile are published on the website.	C	Notification was submitted to DCCEEW via email on 27 October 2025.
81	The approval holder must keep each compliance report and related shapefile published on the website from the first date which that compliance report must be published and until the expiry date of this approval.	C	4.15.4
82	The approval holder must notify the department electronically, within 2 business days of becoming aware of any incident. The approval holder must specify in each notification:	Non-compliant	5.1
82(a)	a) any condition or commitment made in a plan which has not been, or may have not been, complied with,		5.1
82(b)	b) a description of the incident, and		5.1
82(c)	c) the location (if applicable, including co-ordinates), date and time of the incident.		5.1
83	The approval holder must provide to the department electronically in writing, within 12 business days of becoming aware of an incident, the details of that incident. The approval holder must specify:	Compliant	5.1
83(a)	a) all corrective measures and investigations which the approval holder has already taken in respect of the incident,		5.1
83(b)	b) the potential impacts of the incident,		5.1
83(c)	c) the method and timing of any corrective measures that the approval holder proposes to undertake to address the incident, and		5.1
83(d)	d) any variation of these conditions or revision of a plan that will be required to prevent recurrence of the incident and/or to address its consequences.		5.1
84	The approval holder must ensure that an independent audit of compliance with the conditions is conducted for every audit period.	Not Applicable	4.15.5
85	The approval holder must submit details of the proposed independent auditor and their qualifications to the department within 10 business days following the end of each audit period.	Not Applicable	4.15.5
86	The approval holder must ensure the scope of each independent audit is sufficient to determine the compliance status for each condition of approval, and each commitment made in each plan.	Not Applicable	4.15.5
87	The approval holder must ensure the criteria for each independent audit and the undertaking of each independent audit are consistent with the Independent Audit and Audit Report Guidelines.	Not Applicable	4.15.5
88	The approval holder must submit an audit report to the department for written agreement from the department within 3 months following the end of each audit period, or as otherwise directed by the Minister in writing.	Not Applicable	4.15.5
89	The approval holder must ensure each audit report is completed to the satisfaction of the Minister and is consistent with the Independent Audit and Audit Report Guidelines.	Not Applicable	4.15.5
90	The approval holder must publish each audit report on the website, in a format that is easily accessible and downloadable, within 10 business days of the date the department agrees to that audit report in writing.	Not Applicable	4.15.5
91	The approval holder must notify the department within 5 business days of the date the audit report is published on the website. In this notification, the approval holder must provide the department with the web address for where the audit report is published on the website.	Not Applicable	4.15.5
92	The approval holder must keep each audit report published on the website from the first date which that audit report must be published and until the expiry date of this approval.	Not Applicable	4.15.5
93	Within 20 business days after the completion of the Action, and, in any event, at least 20 business days before this approval expires, the approval holder must notify the department electronically of the date of completion of the Action and provide completion data. The approval holder must submit any spatial data that comprises completion data as a shapefile.	Not Applicable	
94	The approval holder must notify the department electronically 60 business days prior to the expiry date of this approval, that the approval is due to expire.	Not Applicable	

* Status Description include:

- Compliant
- Non-compliant
- Not Applicable

6.3 EPBC 2004/1566 AUDIT TABLE

Table 6-3 EPBC 2004/1566 Compliance Audit Table

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition Compliant or Non-Compliant or Not Applicable	EVIDENCE/COMMENTS
1	Submit Biodiversity Investigations Scope (BIS) within 6 months of approval.	Compliant	The BIS was submitted to the Department on 12 November 2007. This was within 6 months of 6 June 2007. The BIS was approved by the Department on 29 November 2007.
2.	Submit Biodiversity Investigations Report prior to vegetation clearing for each mining pod.	Not Applicable	Mining in new mining areas covered by the scope of this approval will not occur within the current mine planning cycle.
3	Advise Department of commencement date within 14 days.	Compliant	A letter was sent to the Department on 27 August 2008. This was within 14 days of 18 August 2008 when Worsley Alumina commenced construction of the project.
4	Submit compliance report by October 1 each year after commencement.	Compliant	Letters were sent to the Department on 25 September 2008, 1 October 2009, 23 September 2010, 22 September 2011, 31 August 2012, 16 September 2013, 25 August 2014, 1 October 2015, 21 October 2016, 17 November 2017, 7 September 2018, 2 April 2020, 21st September 2021, 7th September 2022, 4th September 2023, 16 September 2024, and 22 September 2025.
5	Comply with any request from the Minister to revise the BIS.	Not Applicable	No requests were received from the Minister to revise the BIS.
6	Maintain records and make them available on request.	Compliant	Records are maintained and available.
7	Do not commence project more than 5 years after approval, if Minister has advised not to commence	Compliant	Approval was received in June 2007 and project commenced on 18 August 2008.

* Status Description include:
- Compliant
- Non-compliant
- Not Applicable

7 REFERENCES

Alumina Refinery (Worsley) Agreement Act 1973 (WA)

ANZECC & ARMCANZ 2000, Australian and New Zealand Guidelines for Fresh and Marine Water Quality. Volume 1: The Guidelines (Chapters 1-7), National Water Quality Management Strategy Paper No. 4, Canberra.

DCCEEW (Department of Climate Change, Energy, the Environment and Water) (2023). *Annual Compliance Report Guidelines*. *Reporting under the* Environment Protection and Biodiversity Conservation Act 1999. Canberra.

DCCEEW (Department of Climate Change, Energy, the Environment and Water) (2023). *Notification of Approval Decision, Worsley Bauxite Alumina Project Expansion, Boddington, Western Australia (EPBC 2019/8437)*. Canberra.

Ecology Matters (2024). *Black-Cockatoo Artificial Hollow Installation and Monitoring Gibbs Offset Property Part A: Site Assessment*. Unpublished report for Worsley Alumina Pty Ltd.

Environmental Protection Act 1986 (Western Australia)

Environment Protection and Biodiversity Conservation Act 1999 (Cth)

Mining Act 1978 (WA)

Minister for Energy, Environment, Climate Action (2024). *Ministerial Statement 1237.* Perth, Western Australia.

Minister for the Environment, Racing & Gaming (2006). *Ministerial Statement 719.* Perth, Western Australia.

OEPA (2012). EPA Post Assessment Guidelines No. 3: *Post Assessment Guideline for Preparing a Compliance Assessment Report.* Western Australia.

Phoenix 2026a *Short-range endemic and significant invertebrate survey for the Extended Mining Areas.* Unpublished report for South32 Worsley Alumina Pty Ltd

South32 Worsley Alumina Pty Ltd (2022) Worsley Mine Expansion (Revised Proposal) Environmental Review Document. (Available on-line: Worsley Mine Expansion – Revised Proposal | EPA Western Australia

South32 Worsley Alumina (2005). *Environmental Review and Management Programme.* Unpublished report, Perth WA.

WRM (2005). *Ecological Water Requirements of Augustus River – Intermediary Assessment*. Unpublished report by Wetland Research and Management to Worsley Alumina Pty Ltd. March 2005.

8 DEFINITIONS, TERMS & ABBREVIATIONS

Term	Definition
Administrative Non-compliance	A non-compliance which has no environmental impact
ARGs	Augustus River Gauging Station
ARP	Annual Rehabilitation Plan
ASS	Acid Sulfate Soil
ASSMP	Acid Sulfate Soil Management Plan
BBM	Boddington Bauxite Mine
BC Act	*Biodiversity Conservation Act 2016 (WA)*
BIR	Biodiversity-related Investigations Report
BIS	Biodiversity Investigations Scope
BRDA	Bauxite Residue Disposal Area
BTC	Bauxite Transport Corridor
CAP	Compliance Assessment Plan
CAR	Compliance Assessment Report
CBME	Contingency Bauxite Mining Envelope
CEMP	Construction Environmental Management Plan
CEO	Chief Executive Officer (DWER)
CFWM	Carter's Freshwater Mussel
CSFMP	Conservation Significant Fauna Management Plan
DWER	Department Water and Environmental Regulation
DCCEEW	Department of Climate Change, Energy, the Environment and Water
DBCA	Department of Biodiversity Conservation and Attractions
EMA	Extended Mining Area
EMLG	Environmental Management Liaison Group
EMP	Environmental Management Plan
EPA	Environmental Protection Authority
EPBC	Environment Protection and Biodiversity Conservation
Evidence of use	Trees with a suitable hollow for black cockatoo breeding where evidence of potential use of that hollow has been observed. For example, chewing at the hollow entry.

Term	Definition
FVMP	Flora and Vegetation Management Plan
FWL	Freshwater Lake
GDE	Groundwater Dependent Ecosystem
GISTM	Global Industry Standards on Tailing Management
GKBAC	Gnaala Karla Booja Aboriginal Corporation
GKBI	Gnaala Karla Booja Impact
GL	Gigalitre
Ha	Hectares
ISA	Index of Surveys for Assessments
Km	Kilometre
LOEMP	Local Offsets Environmental Management Plan
m AHD	Metres Australian Height Datum
MCP	Mine Closure Plan
ML/a	Megalitres per annum
MRF	Mine Rehabilitation Fund
MS1237	Ministerial Statement 1237 (Published 20 December 2024)
Mtpa	Million tonnes per annum
MW	Megawatt
NJF	Northern Jarrah Forest
NMT	Noise Monitoring Terminal
Non-administrative Non-compliance	Non-compliance which has the potential to result in an environmental impact
OBC	Overland Bauxite Conveyor
OLC	Marradong Conveyor
PEC	Priority Ecological Community
PAA	Primary Assessment Area
PASS	Potential Acid Sulfate Soil
PBT	Potential Breeding Tree
PDWSA	Public Drinking Water Source Area

Term	Definition
QTR	Quindanning Timber Reserve
RCL	Refinery Catchment Lake
REMP	Research Environmental Management Plan
RL	Relative Level
RLA	Refinery Lease Area
ROEMP	Regional Offsets Environmental Management Plan
SDEV	Standard Deviation
SEP	Solar Evaporation Pond
SRE	Short Range Endemic
State Agreement	*Alumina Refinery (Worsley) Agreement Act 1973 (WA)*
SWDE	Surface Water Dependent Ecosystem
SWL	Surface Water Licence
TEC	Threatened Ecological Community
TSF	Tailings Storage Facility
WEMLG	Worsley Environmental Management Liaison Group
WMDE	Worsley Mining Development Envelope
WMP	Water Management Plan
WOEMP	Woylie Offset Environmental Management Plan
Worsley Alumina	South 32 Worsley Alumina Pty Ltd
Worsley JV	Worsley Joint Venture and Worsley JVPs means the participants in the Worsley Joint Venture from time to time

9 APPENDICES

9.1 APPENDIX 1: COMPLIANCE MONITORING REPORT

9.2 APPENDIX 2: GIS INFORMATION

- Record of clearing during the reporting period
- Record of rehabilitation during the reporting period
- Record of Verified Rank 1, 2 & 3 Black Cockatoo Trees – provided confidentially to the DWER and DCCEEW as required by MS1237 condition D5-2 and EPBC 2019/8437 condition 64.

9.3 APPENDIX 3: ENVIRONMENTAL MANAGEMENT PLANS

- FVMP (V7.0) – Letter of approval, in accordance with condition C1-1

9.4 APPENDIX 4: FLORA AND FAUNA REPORTS

These reports will be provided separately

- Phoenix Environmental Sciences 2025, Vertebrate Fauna Desktop Report for the Extended Mining Areas
- Phoenix Environmental Sciences 2026a – Short-Range Endemic and Significant Invertebrate Survey for the Extended Mining Areas.
- Phoenix Environmental Sciences 2026b – Zone 3 Interim Memorandum Update
- Phoenix Environmental Sciences 2026c – Zone 4 Interim Memorandum Update
- Phoenix Environmental Sciences 2026d – Zone 5 Interim Memorandum Update
- Phoenix Environmental Sciences 2026e – Reconnaissance flora survey for the Regional Study Area and Extended Mining Areas of Worsley Alumina Technical memorandum report
- Mattiske Consulting 2025 – Desktop Assessment of Flora and Vegetation Values - EMA Study Areas
- Ecology Matters 2026, Memorandum – Saddleback Rehabilitation Fauna Monitoring Program: Winter and Spring 2025 Survey Summary.
- Ecology Matters 2026, Memo – Gibbs Black Cockatoo Artificial Hollow Monitoring 2026
- Glevan 2026 – Dieback Occurrence Report Spring Surveys Occurrence Report 3
- Glevan 2026 – Dieback Occurrence Report 2027 Harvesting Program Report 2
- Glevan 2026 – Dieback Occurrence Report 2027 Harvesting Program Report 1
- Stantec – Carters Freshwater Mussel Annual Report, 2025-2026

9.5 APPENDIX 5: BLACK COCKATOO HOLLOWS – METHODOLOGY AND FINDINGS

- Black Cockatoo Hollows – Annual Report (MS1237 Condition B13-5)
- Black Cockatoo Breeding Tree Monitoring Program – Monitoring Data Summary

Black Cockatoo Breeding Tree Monitoring Results

Tree ID	Rank	Inspection Date	Comments
5830	Rank 2	21/10/25	No breeding activity observed
5928	Rank 1	21/10/25	No breeding activity observed
6353	Rank 2	21/10/25	No breeding activity observed
6402	Rank 2	N/A	No access due to active mining
6664	Rank 2	22/10/25	No breeding activity observed
7031	Rank 2	22/10/25	No breeding activity observed
7360	Rank 2	16/09/25	New Rank 2 tree from pre-clearance (add for future monitoring). No breeding activity observed.
8352	Rank 2	07/01/26	No breeding activity observed.
8431	Rank 2	18/06/26*	New Rank 2 tree from pre-clearance (add for future monitoring). No breeding activity observed.
8506	Rank 2	08/09/2025	New Rank 2 tree from pre-clearance (add for future monitoring). No breeding activity observed.
8554	Rank 2	6/02/2026	New Rank 2 tree from pre-clearance (add for future monitoring). No breeding activity observed.
9274	Rank 1	N/A	No access due to active mining
9511	Rank 2	28/10/25	No breeding activity observed
9731	Rank 2	N/A	Once off request with no return access to private property, to be excluded from future monitoring programs.
9769	Rank 2	N/A	No access to private property (Hollow is unverified as Rank 2).
9999	Rank 2	18/03/26*	New Rank 2 tree from pre-clearance (add for future monitoring). No breeding activity observed.
10081	Rank 2	N/A	No access to private property (Hollow is unverified as Rank 2).
L103	Rank 2	N/A	No access due to active mining
L106	Rank 2	22/10/25	No breeding activity observed
L109	Rank 2	03/11/25	No breeding activity observed
L110	Rank 1	03/11/25	No breeding activity observed
L121	Artificial	23/09/25	No breeding activity observed
L128	Rank 1	17/11/25	No breeding activity observed
L130	Rank 1	11/07/25**	Tree was not visited again during the breeding period. No breeding activity observed at time of inspection.
L132	Artificial	24/09/25	No breeding activity observed
L133	Rank 1	24/09/25	No breeding activity observed
L134	Rank 1	24/09/25	No breeding activity observed
L135	Artificial	24/09/25	No breeding activity observed
L136	Rank 1	24/09/25	No breeding activity observed

Tree ID	Rank	Inspection Date	Comments
L139	Rank 2	21/10/25	No breeding activity observed
L140	Rank 2	13/10/25	No breeding activity observed
L145	Rank 2	21/10/25	No breeding activity observed
L146	Rank 1	21/10/25	No breeding activity observed
L147	Rank 1	09/10/25	No breeding activity observed
L149	Rank 2	23/09/25	No breeding activity observed
L150	Rank 1	03/11/25	No breeding activity observed

* Rank 1 and 2 trees identified during the reporting period. Identification may have occurred outside the known breeding season.
** Tree was inspected outside the main breeding period for Black Cockatoos.

9.6 APPENDIX 6: WATER MONITORING RESULTS AND REPORTS

- FY26 Refinery Hydrology Review
- BBM Triennial Aquifer Review 2023-26
- Alluvium 2023a – Surface Water Assessment, Brookton and Mid Central
- Alluvium 2023b – Surface water background assessment for the Quindanning and Hotham North Extended Mining Areas
- Water and Environmental Consultants 2023a – Salinity Risk Assessment for the Brookton Mining Area Using Flux Density Analysis
- Water and Environmental Consultants 2023b – Salinity Risk Assessment for the East Quindanning and Morgans Mining Areas Using Flux Density Analysis
- Water and Environmental Consultants 2023c – Salinity Risk Assessment for the Central & Hotham North Extension Mining Areas Using Flux Density Analysis
- CMD Smith 2023a – Hydrogeological Assessment – Extended Mining Areas – Hotham North
- CDM Smith 2023b – Hydrogeological Assessment – Extended Mining Areas – Quindanning
- CDM Smith 2024 – Hydrogeological Assessment – Baseline Studies – Brookton and Mid Central Extended Mining Areas

9.7 APPENDIX 7: ANNUAL REHABILITATION PLAN – ANNUAL REPORTING INFORMATION

- Annual Rehabilitation Plan – Section 10
- Mattiske Spring Assessment Report 2026

9.8 APPENDIX 8: MINE CLOSURE PLAN DOCUMENTS

- Letter from DWER – ENQ0003403 Re Mine Closure Plan Deferral

9.9 APPENDIX 9: HERITAGE DOCUMENTS

- DPLH Aboriginal Cultural Heritage Inquiry System Search - Lodged & Registered Sites
- Ministerial Consent 34-65280

- Ministerial Consent 34-67837
- Ministerial Consent MIN-2023-1062

9.10 APPENDIX 10: CEMP – NULLAGA PROJECT INFORMATION

- Acid Sulfate Soil & Water Management Register
- South32 Water Monitoring Database - Nullaga

9.11 APPENDIX 11: SCHEDULE OF PLANS IN EFFECT - EPBC 2019/8437 CONDITION 76(B)

EPBC 2019/8437 condition 76(b) requires Worsley Alumina to include a schedule of all plans in effect in relation to conditions during the Annual Compliance Report (ACR) period:

- Water Management Plan
- Local Offset Environmental Management Plan

9.12 APPENDIX 12: CONSERVATION COVENANTS

- ConservationCovenant_South32_Lot 100
- ConservationCovenant_South32_Lot 102