



***Environment Protection and Biodiversity
Conservation Act 1999
Annual Compliance Report***

EPBC Approval: 2017/8017

Project: Develop the Mesa H Iron Ore Mining Operations
16 km SW Pannawonica, WA

Report period: 1 January – 31 December 2024

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1 Description of activities

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| EPBC approval number: | 2017/8017 |
| Project name: | Develop the Mesa H Iron Ore Mining Operations 16 km SW Pannawonica, WA |
| Approval holder: | Robe River Mining Co. Pty. Ltd. |
| Approval holder's Australian Business Number: | 71 008 694 246 |
| Approved action: | To extend the existing Robe Valley mining operations at Mesa J, by developing an open cut mine at the adjacent iron ore deposit at Mesa H, approximately 16 kilometres southwest of Pannawonica WA, through additional mine pits, mineral waste dumps and associated infrastructure, processing facilities and water management infrastructure. |
| Location of the project: | 16 km southwest of Pannawonica WA |
| Reporting period: | 1 January 2024 to 31 December 2024 |
| Report preparation date: | 30 April 2025 |
| Implementation phase(s) during reporting period: | Operational |

2 Audit table

Details of compliance with each condition under EPBC approval 2017/8017 are presented in Table 1.

Table 1: EPBC Approval Conditions Compliance Table – EPBC 2017/8017 – Develop the Mesa H Iron Ore Mining Operations 16 km SW Pannawonica, WA

| Condition Number | Condition | Compliance status | Evidence/Comments |
|------------------|---|-------------------|---|
| 1 | <p>To minimise impacts to the Blind Cave Eel, Ghost Bat, Northern Quoll, Olive Python and Pilbara leaf-nosed bat the approval holder must not:</p> <ol style="list-style-type: none"> clear more than 2,200 ha of vegetation within the Development Envelope, including no more than 132 ha within the Mesa H Mining Exclusion Zone (MEZ) as shown in <u>Attachments A</u> and <u>B</u>. abstract more than 30 GL/annum of groundwater. | Compliant | <p>Aerial photography was collected during the reporting period to reconcile ground disturbance and the prescribed clearing limits were not exceeded. Combined clearing within the EPBC Development Envelope totalled:</p> <ul style="list-style-type: none"> 482.3 ha** within the Development Envelope, with 62.0ha disturbed in 2024. 10.1 ha** within the Mesa H MEZ, with 2.4ha disturbed in 2024 <p>**Clearing reported in the 2022 and 2023 Annual Compliance Reports for EPBC 2017/8017 was overestimated due to a miscalculation, and was inclusive of clearing completed previously under Native Vegetation Clearing Permits</p> <p>The approval holder abstracted 0.9GL of groundwater from within the Development Envelope during the reporting period.</p> |
| 2 | <p>To minimise impacts to the Blind Cave Eel, Ghost Bat, Northern Quoll, Olive Python and Pilbara leaf-nosed bat, the approval holder must comply with all specifications of the following conditions of the EPA Report and Recommendations that are consequential for these species:</p> <ol style="list-style-type: none"> Condition 5 (Condition Environmental Management Plan(s)), Condition 6 (Inland Waters and Vegetation), Condition 8 (Terrestrial Fauna Habitat – Conservation Significant Fauna Species: Northern Quoll (<i>Dasyurus hallucatus</i>), Ghost Bat (<i>Macroderma giga</i>) and Pilbara Leaf-Nosed Bat (<i>Rhinonicteris aurantia</i> – Pilbara form)). | Compliant | <p>Condition 5: The Mesa J and H (Mesa J Hub) Environmental Management Plan (EMP) (our ref: RTIO-HSE-0349253) was approved by DWER in September 2024 and implemented thereafter.</p> <p>Condition 6: No irreversible impact to the health of the Robe River and Jimmawurrada Creek ecosystems was identified during the reporting period.</p> <p>Condition 8: No irreversible impact occurred to 'breakaways and gullies' habitat retained within the Mesa H MEZ during the reporting period, other than existing and authorised disturbance.</p> |

| Condition Number | Condition | Compliance status | Evidence/Comments |
|------------------|--|-------------------|--|
| 3 | <p>To minimise impacts to the Blind Cave Eel, Ghost Bat, Northern Quoll, Olive Python and Pilbara leaf-nosed bat, the Condition Environmental Management Plan(s) specified under Condition 5 of the EPA Report and Recommendations, must (where relevant to Blind Cave Eel, Ghost Bat, Northern Quoll, Olive Python and Pilbara leaf-nosed bat) specify environmental outcomes or objectives related to the mitigation and management of the following key threatening processes:</p> <ul style="list-style-type: none"> a. fire. b. vehicle and machinery movements. c. fauna encounters and sightings. d. weed management. e. feral animal control. f. noise and vibration; and g. dust and light. <p>For 3.f. noise and vibration, the Condition Environmental Management Plan(s) must include monitoring of the Ghost bat and include management targets(s) to ensure that the approved action does not result in significant long term decline in the Ghost Bat population.</p> | Compliant | <p>The EMP (our ref: RTIO-HSE-0349253) contains the required environmental outcomes and objectives. The EMP was approved by DWER in September 2024 and implemented thereafter.</p> <p>Monitoring of the Ghost Bat during 2024 indicated that the habitat across the Robe Valley is providing suitable roosting conditions to support the long-term persistence of the species long-term and did not identify any decline in Ghost Bat population attributable to the proposal.</p> |
| 4 | <p>To minimise impacts to Ghost Bat, that approval holder must implement a Mining Exclusion Zone and blast management to minimise potential impacts to Ghost Bat roosts from noise and vibration associated with mining activities.</p> <p>The Condition Environmental Management Plan specified under Condition 5 of the EPA Report and Recommendations must include and justify appropriate management, avoidance and mitigation measures and may specify different measures for diurnal and nocturnal Ghost Bat roosts.</p> <p>If the action results in permanent significant structural damage to a Ghost Bat roost which cannot be remedied, or a failure to meet the management targets required under Condition 3, the proponent must submit a plan in writing within two months of the occurrence to the Minister for approval. This plan must justify and specify how the impact will be rectified or offset.</p> | Compliant | <p>The Mining Exclusion Zones at Mesa H and RTIO Blast Management Plan were implemented as appropriate throughout the reporting period.</p> <p>A management target was established in the EMP (our ref: RTIO-HSE-0349253) to ensure that the approved action does not result in significant long-term decline in the Ghost Bat population. The EMP was approved September 2024.</p> <p>Blasting activities occurred within 300m of potential maternal or diurnal Ghost Bat roosts JN and MH15_34. No structural damage to Ghost Bat roosts was recorded in the reporting period.</p> |

| Condition Number | Condition | Compliance status | Evidence/Comments |
|------------------|---|-------------------|--|
| 5 | <p>To minimise the impacts to the Blind Cave Eel and its habitat the approval holder must ensure that, as a result of the action:</p> <ol style="list-style-type: none"> there is no significant change to groundwater quality detrimental to the Blind Cave Eel within its known habitat; and groundwater drawdown in the known pre-mining saturated Blind Cave Eel habitat within the Jimmawurrada Creek alluvial aquifer must not exceed 10 metres in depth below the minimum recorded wet season groundwater level. | Compliant | <p>No significant changes in groundwater quality detrimental to the Blind Cave Eel were identified, see section 4.1.</p> <p>Groundwater drawdown did not exceed 10 metres in depth below the minimum recorded wet season groundwater level, see section 4.3.</p> |
| 6 | <p>The approval holder must submit an Action Management Plan that specifies how the approval holder will achieve the outcomes specified in Condition 5 for approval by the Minister. The approval holder must not commence abstraction activities that are part of the action unless the Minister has approved the Action Management Plan in writing. The approved Action Management Plan must be implemented. The Action Management Plan must:</p> <ol style="list-style-type: none"> justify and specify the definition of the significant change to groundwater quality detrimental to the Blind Cave Eel habitat. provide detail of the method(s) to be used within appropriate justification and relevant case studies (noting that method(s) may include but need not be restricted to managed aquifer recharge); specify threshold criteria exceedance of which presents a risk of breaching condition 5 and commit to not exceeding those criteria; specify trigger criteria that provide an early warning that the threshold criteria could be exceeded; specify monitoring capable of determining if trigger criteria and threshold criteria are exceeded; include an isopach map illustrating the alluvial thickness in the known pre-mining saturated Blind Cave Eel habitat within the Jimmawurrada Creek alluvial aquifer. The isopach map must: <ol style="list-style-type: none"> show the location of the groundwater monitoring bore(s) for which the minimum recorded wet season groundwater level has been measured; | Compliant | <p>The Blind Cave Eel Action Management Plan was submitted as part of the EMP (our ref: RTIO-HSE-0349253), addressing the required outcomes and objectives listed under Condition 6. The Action Management Plan was acknowledged as compliant by DWER in September 2024, and by DCCEEW in December 2024.</p> <p>Abstraction activities at Mesa H have not yet commenced.</p> |

| Condition Number | Condition | Compliance status | Evidence/Comments |
|------------------|--|-------------------|--|
| | <p>II. show the extent of the saturated alluvial thickness which does not exceed 10 metres in depth below the minimum recorded wet season groundwater level;</p> <p>III. identify which bores will be used for compliance monitoring to ensure that the 10 metres in depth below the minimum recorded wet season groundwater level does not occur;</p> <p>IV. include the approval holder's commitment to reporting significant damage or loss of any bore(s) used for compliance monitoring in writing to the Department within seven (7) days of becoming aware of the damage, and the replacement of any bore used for compliance monitoring within three (3) months of the damage occurring, or another period as agreed in writing by the Minister.</p> <p>g. specify actions to be implemented in the event that the trigger criteria have been exceeded;</p> <p>h. specify threshold contingency actions to be implemented in the event that the threshold criteria are exceeded (these may include but need not be limited to ceasing groundwater abstraction); and</p> <p>i. provide the format and timing for the reporting of monitoring results against trigger criteria and threshold criteria to demonstrate that Condition 5 is being met.</p> | | |
| 7 | <p>In the event that monitoring, tests, surveys or investigations indicate exceedance of threshold criteria specified in the Action Management Plan, the approval holder must:</p> <p>a. report the exceedance in writing to the Department within seven days of becoming aware of the exceedance;</p> <p>b. commence implementing the threshold contingency actions specified in the Action Management Plan within 24 hours of becoming aware of the exceedance and continue implementation of those actions until the Department has confirmed by notice in writing that the approval holder has demonstrated that the threshold contingency actions are no longer required;</p> | Compliant | No threshold criteria were exceeded during the reporting period. |

| Condition Number | Condition | Compliance status | Evidence/Comments |
|------------------|---|-------------------|---|
| | <ul style="list-style-type: none"> c. investigate to determine the cause of the threshold criteria being exceeded; d. undertake investigation to provide the Department with adequate information for it to determine what, if any, harm or alteration of the environment that may affect protected matters occurred due to threshold criteria being exceeded; and e. provide a report to the Department within twenty-one days of the exceedance being reported as required by Condition 7.a, or another time as agreed in writing by the Minister, the report must include: <ul style="list-style-type: none"> I. details of threshold contingency actions implemented; II. the effectiveness of the threshold contingency actions implemented, against the threshold criteria; III. the findings of the investigations required by Conditions 7.c. and 7.d.; IV. measures to prevent the threshold criteria being exceeded in the future; V. measures to prevent, mitigate and remedy the environmental harm which may have occurred; and VI. justification of the threshold remaining, or being adjusted based on better understanding, demonstrating that outcomes specified at Condition 5 will continue to be met. | | |
| 8 | Groundwater management and monitoring must continue until the Minister agrees in writing that the outcomes specified at Condition 5 can be met without active management of groundwater levels by the approval holder. | Compliant | Management and monitoring of groundwater was undertaken during the reporting period. |
| 9 | To demonstrate the effectiveness of the Action Management Plan the approval holder must undertake monitoring, using best available methods (noting these may evolve over time) to determine the presence of the Blind Cave Eel within the known pre-mining distribution within Jimmawurrada Creek alluvial aquifer prior to every five years from the anniversary of the date of this approval until the end date of this approval (or the end date of the action as agreed in writing from the Minister). Results of the monitoring must be provided to the Department . The complete findings of each program of monitoring must be | Compliant | Findings of the annual Blind Cave Eel monitoring program is reported annually in the EPBC compliance report for 2017/8017. See section 4. |

| Condition Number | Condition | Compliance status | Evidence/Comments |
|------------------|--|-------------------|---|
| | provided to the Department in the first annual compliance report submitted after each five-year anniversary of the date of this approval. | | |
| 10 | <p>To compensate for the residual significant impacts to Ghost Bat, Northern Quoll, Olive Python, Pilbara leaf-nosed bat and the Blind Cave Eel, the approval holder must within fifteen months of the date of this approval, submit an Offset Strategy for the Minister's written approval. The Offset Strategy must:</p> <ol style="list-style-type: none"> specify the approach and priorities for providing offsets for the clearing of habitat for Ghost Bat, Northern Quoll, Olive Python and Pilbara leaf-nosed bat; specify the approach and priorities for providing offsets as a result of groundwater drawdown for the Blind Cave Eel; identify threats for the Ghost Bat, Northern Quoll, Olive Python, Pilbara leaf-nosed bat and the Blind Cave Eel; nominate detailed offset projects that will realise a conservation benefit for the Ghost Bat, Northern Quoll, Olive Python, Pilbara leaf-nosed bat and Blind Cave Eel in accordance with relevant approved conservation advice, recovery plans and threat abatement plans and regional conservation plans; if the proposed Offset Strategy includes offset(s) that do not provide specified site(s) for permanent conservation purposes: <ol style="list-style-type: none"> specify a financial commitment of at least \$3,000 AUD (exclusive of GST) per hectare cleared in Area B, and in addition, at least \$833.00 AUD (exclusive of GST) per hectare cleared in Area A. The financial commitment must be adjusted in accordance with the CPI released in each calendar year from the date of this approval decision until the date on which any payment is made; provide a financial commitment of at least \$1,000,000 AUD (exclusive of GST) to support research priorities addressing current knowledge gaps that will significantly contribute to long term conservation outcomes for the Blind Cave Eel. specify the party to be responsible for implementing the proposed offsets; where appropriate the location and nature of each proposed | Compliant | <p>The Impact Reconciliation Procedure (IRP) (our ref: RTIO-HSE-0354024) was submitted to DWER on 30 November 2021, approved by DWER on 18 August 2022 (our ref: RTIO-0210501; DWER ref: DWERT5635).</p> <p>The Impact Reconciliation Report (IRR) for the 2022 – 2023 period was submitted on 29 April 2024 (our ref: RTIO-1027571).</p> |

| Condition Number | Condition | Compliance status | Evidence/Comments |
|------------------|---|-------------------|--|
| | <p>offset project, along with detailed objectives, budget, timeframes, performance and completion criteria for evaluating conservation or research outcomes, monitoring and reporting requirements;</p> <ul style="list-style-type: none"> g. specify how research findings will be published; h. include a description of the potential risks to the successful implementation of each proposed offset (including but not limited to environmental, administrative, financial, and governance risks); i. include a description of the measures that will be implemented to mitigate risks associated with each proposed offset and a description of the contingency measures that will be implemented if triggers arise or completion criteria are not met; j. include processes to adaptively manage proposed offsets; k. explain how the proposed offsets meet the EPBC Act Environmental Offsets Policy; and l. ensure the measures that will be implemented as part of the Offset Strategy have no detrimental impact on listed threatened species under the EPBC Act. <p>The approval holder must implement the approved Offset Strategy. The approval holder must commence implementation of the offsets specified in the approved Offset Strategy within two months of the approval of the Offset Strategy, or another time as agreed in writing by the Minister. The approved Offset Strategy may be varied within the written approval of the Minister. If that variation to the Offset Strategy is approved by the Minister, the varied Offset Strategy must be implemented from the date of approval of the varied Offset Strategy.</p> | | |
| 11 | <p>Subject to Condition 12, within eight months of approval of the Offset Strategy by the Minister, the approval holder must submit a report to the Department detailing the extent of Ghost Bat, Northern Quoll, Olive Python, and Pilbara leaf-nosed bat habitat cleared, and the total amount of financial commitments that have been made (including for the Blind Cave Eel), as provided for in Condition 10.e, to offset projects in the approved Offset Strategy and detail the implementation of offset projects. Subsequent reports must be</p> | Compliant | <p>The IRP (our ref: RTIO-HSE-0354024) was submitted to DWER on 30 November 2021, approved by DWER on 18 August 2022 (our ref: RTIO-0210501; DWER ref: DWERT5635).</p> <p>The IRR for the 2022 – 2023 period was submitted on 29 April 2024 (our ref: RTIO-1027571).</p> |

| Condition Number | Condition | Compliance status | Evidence/Comments |
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| | provided biennially, with each report due by 30 April in the year following the two-year reporting period. The second report must be provided by 30 April for a period not exceeding two years from the provision of the first report. | | |
| 12 | <p>If a Conservation Offset Fund has been established by the Western Australian Government, and approved the Minister in writing, then Conditions 10 and 11 may not apply (or may cease to be applied) with respect to the offset for each of the Blind Cave Eel, Ghost Bat, Northern Quoll, Olive Python and Pilbara leaf-nosed bat with the agreement by the Minister in writing.</p> <p>Where agreed by the Minister in writing, the approval holder must provide funds biennially to the Conservation Offset Fund. For the Ghost Bat, Northern Quoll, Olive Python and Pilbara leaf-nosed bat the amount of funds provided biennially is to be based on the area of habitat of each species cleared in the biennial reporting period. The funding amounts must be at least \$3,000 AUD (exclusive of GST) per hectare cleared in Area B; and at least \$833.00 AUD (exclusive of GST) per hectare cleared in Area A.</p> <p>For the Blind Cave Eel, the amount will be a payment of at least \$1 million AUD (exclusive of GST) to contribute to long term conservation outcomes for that species.</p> <p>All funds to be paid must be equivalent to the 2019 value of the above amounts by the application of the CPI in each calendar year from the date of this approval decision until the date on which any payment is made.</p> <p>Biennial reporting periods will be based on calendar years with the first biennial reporting period being inclusive of the calendar year in which commencement of the action occurs and the following calendar year. Biennial reports must be submitted to the Department by 30 April following the end of each biennial reporting period.</p> | Not applicable | <p>The approval holder requested approval from DAWE on 7 June 2021 to use the Pilbara Environmental Offset Fund established by the Western Australian Government (our ref: RTIO-HSE-0353523) in relation to meeting EPBC offsets requirements for the Northern Quoll, Ghost Bat, Pilbara Leaf-nosed Bat, Pilbara Olive Python and the Blind Cave Eel. The Federal Environment Minister has not yet approved this request.</p> <p>The IRP (our ref: RTIO-HSE-0354024) was submitted to DWER on 30 November 2021, approved by DWER on 18 August 2022 (our ref: RTIO-0210501; DWER ref: DWERT5635).</p> |
| 13 | Prior to making the payment required by Condition 12, the approval holder must submit written evidence to the Department of the total area, including shapefiles , of Ghost Bat, Northern Quoll, Olive Python and Pilbara leaf-nosed bat habitat cleared during the most recently ended biennial reporting period and the calculation (including working out) of the amount of funding that is required to be contributed to the Conservation Offset Fund for that biennial | Compliant | The IRR (our ref: RTIO-1027571) for 2022-2023, inclusive of shapefiles, was submitted to DWER and DCCEEW on 29 April 2024. |

| Condition Number | Condition | Compliance status | Evidence/Comments |
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| | reporting period. Within 48 hours of the payment into the Conservation Offset Fund , evidence of these payments must be provided to the Department in writing. | | |
| 14 | The approval holder must notify the Department in writing of the date of commencement of the action within 10 business days after the date of commencement of the action . | Compliant | Notification of commencement of the action was submitted on 25 September 2020 (our ref: RTIO-HSE-0345996) and acknowledged by DAWE on 30 September 2020 (our ref: RTIO-HSE-0347236). |
| 15 | The approval holder must maintain accurate and complete compliance records . | Compliant | Records associated with or relevant to the conditions of this approval are maintained within the Rio Tinto Iron Ore Information Management System. |
| 16 | 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 | No requests received during the reporting period. |
| 17 | The approval holder must: <ul style="list-style-type: none"> a. submit plans electronically to the Department for approval by the Minister; b. publish each plan on the website within 20 business days of the date the plan is approved by the Minister or of the date a revised action management plan is submitted to the Minister or the Department, unless otherwise agreed to in writing by the Minister; c. exclude or redact sensitive ecological data from plans published on the website or provided to a member of the public; and d. keep plans published on the website until the end date of this approval. | Non-Compliant | <p>A revised version of the Mesa J Hub EMP (our ref: RTIO-HSE-0349253) was submitted 31 July 2024 electronically. The EMP was approved by DWER 3 September 2024 and AMP approved by DCCEEW on 9 December 2024. The EMP (inclusive of the AMP) was not published on Rio Tinto's website within the required 20 business days of the plan being approved.</p> <p>The non-compliance with Condition 17 was identified during the annual reporting process on 13 February 2025, and the Plan was published on Rio Tinto's website on 14 February 2025 (45 days after the plan was approved). A letter (our ref: RTIO-1102576) notifying DCCEEW of the non-compliance was sent 21 February 2025.</p> |

| Condition Number | Condition | Compliance status | Evidence/Comments |
|------------------|--|-------------------|---|
| 18 | The approval holder must ensure that any monitoring data (including sensitive ecological data), surveys, maps, and other spatial and metadata required under a plan , is prepared in accordance with the Department's Guidelines for biological survey and mapped data (2018) and submitted electronically to the Department in accordance with the requirements of the plan. | Compliant | There was no requirement during the reporting period to submit data to the Department in accordance with Mesa H Environmental Management Plan (our ref: RTIO-HSE-0349253). |
| 19 | <p>Following commencement of the action, the approval holder must prepare a compliance report for each previous 12 month calendar year period. The approval holder must:</p> <ul style="list-style-type: none"> a. publish each compliance report on the website on 30 April for the previous 12 month calendar year period; b. notify the Department by email that a compliance report has been published on the website within five business days of the date of publication; c. keep all compliance reports publicly available on the website until this approval expires; d. exclude or redact sensitive ecological data from compliance reports published on the website; and e. where any sensitive ecological data has been excluded from the version published, submit the full compliance report to the Department within 5 business days of publication. | Compliant | 2023 Annual Compliance Report submitted to the Department and published on Rio Tinto's website on 30 April 2024 (our ref: RTIO-1020594). |
| 20 | <p>The approval holder must notify the Department in writing of any: incident; non-compliance with the conditions; or non-compliance with the commitments made in plans. The notification must be given as soon as practicable, and no later than seven business days after becoming aware of the incident or non-compliance. The notification must specify:</p> <ul style="list-style-type: none"> a. any condition which is or may be in breach; b. a short description of the incident and/or non-compliance; and c. the location (including co-ordinates), date, and time of the incident (or the date the incident became known of) and/or non-compliance. In the | Compliant | <p>A non-compliance with Condition 17 (b) (detailed above) was identified 13 February 2025. The notification (our ref: RTIO-1102576) to DCCEEW was provided 21 February 2025, seven business days after becoming aware of the incident.</p> <p>The notification specified the condition in breach and a short description of the incident, as required.</p> |

| Condition Number | Condition | Compliance status | Evidence/Comments |
|------------------|--|-------------------|---|
| | event the exact information cannot be provided, provide the best information available. | | |
| 21 | <p>The approval holder must provide to the Department the details of any incident or non-compliance with the conditions or commitments made in plans as soon as practicable and no later than 21 business days after becoming aware of the incident or non-compliance, specifying:</p> <ul style="list-style-type: none"> a. any corrective action or investigation which the approval holder has already taken or intends to take in the immediate future; b. the potential impacts of the incident or non-compliance; and c. the method and timing of any remedial action that will be undertaken by the approval holder. | Compliant | <p>A non-compliance with Condition 17 (b) (detailed above) was identified 13 February 2025. The notification and details of the incident (our ref: RTIO-1102576) to DCCEEW was provided 21 February 2025, within 21 business days after becoming aware of the incident.</p> <p>To prevent re-occurrence, the Approval Holder has committed to update internal governance processes to ensure future plans are published on the website in accordance with EPBC conditions.</p> <p>Given there are no potential or known impacts, and corrective action has been taken, no further mitigation or reporting was proposed.</p> |
| 22 | The approval holder must ensure that independent audits of compliance with the conditions of this approval are conducted as requested in writing by the Minister . | Not applicable | There were no audits requested during the reporting period. |
| 23 | <p>For each independent audit, the approval holder must:</p> <ul style="list-style-type: none"> a. provide the name and qualifications of the independent auditor and the draft audit criteria to the Department; b. only commence the independent audit once the audit criteria have been approved in writing by the Department; and c. submit an audit report to the Department within the timeframe specified in the approved audit criteria. | Not applicable | There were no audits requested during the reporting period. |
| 24 | The approval holder must publish the audit report on the website within 10 business days of receiving the Department's approval of the audit report and keep the audit report published on the website until the end date of this approval. | Not applicable | There were no audits requested during the reporting period. |
| 25 | The approval holder may, at any time, apply to the Minister for a variation to an action management plan approved by the Minister by submitting an application | Not applicable | The Blind Cave Eel Action Management Plan was submitted as part of the Mesa J Hub EMP (our ref: |

| Condition Number | Condition | Compliance status | Evidence/Comments |
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| | in accordance with the requirements of section 143A of the EPBC Act . If the Minister approves a revised action management plan (RAMP) then, from the date specified, the approval holder must implement the RAMP in place of the previously approved action management plan. | | RTIO-HSE-0349253) and approved in 2024. No further request for variation was submitted during the reporting period. |
| 26 | Within 30 days after the completion of the action , the approval holder must notify the Department in writing and provide completion data . | Not applicable | Implementation of the action is ongoing. |

3 Non-Compliances

3.1 Details of non-compliance(s)

| | | |
|--|-----------------------------|--|
| Which implementation condition or procedure was non-compliant? | | |
| Condition 17b states “17. <i>The approval holder must...(b) publish each plan on the website within 20 business days of the date the plan is approved by the Minister or of the date a revised action plan management plan is submitted to the Minister or the Department, unless otherwise agreed to in writing by the Minister</i> ”. | | |
| Who detected the non-compliance? | | |
| The approval holder. | | |
| On what date(s) did the non-compliance occur (if applicable)? | | |
| <p>A revised version of the Mesa J Hub EMP (our ref: RTIO-HSE-0349253) was submitted 31 July 2024 electronically. The EMP was approved by DWER 3 September 2024 and AMP approved by DCCEEW on 9 December 2024. The EMP (inclusive of the AMP) was not published on Rio Tinto’s website within the required 20 business days of the plan being approved (nominally by 13 January 2025).</p> <p>The non-compliance with Condition 17 was identified on 13 February 2025.</p> | | |
| Was this non-compliance reported to the Department? | | |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Reported to DoE verbally Date: <input checked="" type="checkbox"/> Reported to DoE in writing Date: 21 February 2025 DoE ref: 2017/8017 Our ref: RTIO-1102576 | <input type="checkbox"/> No | |
| What correction measure(s), if any, were taken or are proposed to be taken in response to the non-compliance? | | |
| <p>The Blind Cave Eel Action Management Plan was published on the website the day after the non-compliance was identified, on 14 February 2025 (i.e. 45 business days after the Plan was approved). The plan can be found on the Rio Tinto Iron Ore website under the ‘Iron Ore Western Australia Downloads’ section, accessible here: https://www.riotinto.com/en/operations/australia/iron-ore-western-australia</p> | | |
| Who was/is responsible for correcting the non-compliance? | | |
| The Approval Holder. | | |
| What date did/will the correction measures commence and/or be completed or the time frame for correction? | | |
| The Plan was published on the website on 14 February 2025. | | |
| What measures, if any, are in place to prevent re-occurrence of the non-compliance? | | |
| <p>To prevent re-occurrence, the proponent has committed to update internal governance processes to ensure future plans are published on the website in accordance with EPBC conditions.</p> <p>Given there are no potential or known impacts, and corrective action has been taken, no further mitigation or reporting was proposed.</p> | | |

4 Blind Cave Eel Action Management Plan

Action Management Plan requirements for the Blind Cave Eel as per Condition 5 and Condition 6 are incorporated into the Inland Waters and Subterranean Fauna Management Provisions of the Mesa J/H EMP (our ref: RTIO-HSE-0349253).

Table 2: Environmental management commitments

| Key environmental factor : Blind Cave Eel Habitat Quality Management Zone | |
|--|--|
| EPBC Decision Notice 2017/8017 Condition 5a. <i>there is no significant change to groundwater quality detrimental to the Blind Cave Eel within its known habitat.</i> Outcome: Ensure no significant change to groundwater quality detrimental to the Blind Cave Eel within its known habitat associated with implementation of the Action. | |
| Environmental criteria | Reporting period 1 January – 31 December 2024 |
| <u>Early response criteria:</u> | <u>Status Report</u> |
| 1. Water quality in any key Robe River surface water pool exceeds Tier 1 SSGV | Early response criterion exceeded. See section 4.1.1 for discussion. |
| 2. Groundwater physicochemical quality in Jimmawurrada Bores exceeds Tier 1 SSGV | Early response criterion not exceeded. |
| <u>Trigger criteria:</u> | <u>Status Report</u> |
| 1. Water quality in any key Robe River surface water pool exceeds Tier 2 SSGV | Trigger criterion not exceeded. |
| 2. Groundwater physiochemical quality in Jimmawurrada Bores exceeds Tier 2 SSGV | Trigger criterion exceeded. |
| <u>Threshold criteria:</u> | <u>Status Report</u> |
| 1. Water quality in any two or more compliance groundwater bores or key Robe River surface water pool exceeds Tier 2 SSGV for two consecutive sampling events with a causal relationship to the Proposal | Threshold criterion not exceeded. |
| AND 2. Ecological Effects Assessment shows a declining trend in aquatic and stygofauna diversity or change to assemblage structure and absence of Blind Cave Eel records (specimen or eDNA) with a causal relationship to the Proposal and effects persisting for a three (3) year rolling window. | Threshold criterion not exceeded. |
| Key environmental factor : Jimmawurrada Creek Alluvial Aquifer Drawdown Management Zone | |
| EPBC Decision Notice 2017/8017 Condition 5b. <i>groundwater drawdown in the known pre-mining saturated Blind Cave Eel habitat within the Jimmawurrada Creek alluvial aquifer must not exceed 10 metres in depth below the minimum recorded wet season groundwater level.</i> Outcome: Ensure groundwater drawdown in the known pre-mining saturated Blind Cave Eel habitat within the Jimmawurrada Creek alluvial aquifer does not exceed 10 metres in depth below the minimum recorded wet season groundwater level. | |

| Environmental criteria | Reporting period 1 January – 31 December 2024 |
|---|---|
| <u>Early response criteria:</u> | <u>Status Report</u> |
| 1. Groundwater drawdown within the Jimmawurrada Creek alluvial aquifer exceeds 8 metres in depth below the minimum recorded wet season groundwater level in four groundwater bores for two consecutive monitoring events. | Early response criterion not exceeded. |
| <u>Trigger criteria:</u> | <u>Status Report</u> |
| 1. Groundwater drawdown within the Jimmawurrada Creek alluvial aquifer exceeds 9 metres in depth below the minimum recorded wet season groundwater level in any one groundwater bore for two consecutive monitoring events. | Trigger criterion not exceeded. |
| 2. Modelling predicts groundwater drawdown will exceed 10 metres in depth below the minimum recorded wet season groundwater level in any one monitored groundwater bore. | Trigger criterion not exceeded. |
| <u>Threshold criteria:</u> | <u>Status Report</u> |
| 1. Groundwater drawdown within the Jimmawurrada Creek alluvial aquifer exceeds 10 metres in depth below the minimum recorded wet season groundwater level with a causal relationship to the Proposal in two or more monitored groundwater bores for a single monitoring event. | Threshold criterion not exceeded. |
| AND 2. Ecological Effects Assessment shows a declining trend in aquatic and stygofauna diversity or change to assemblage structure and absence of Blind Cave Eel records (specimen or eDNA) with a causal relationship to the Proposal and effects persisting for a three (3) year rolling window. | Threshold criterion not exceeded. |

4.1 Water quality comparison to SSGVs

4.1.1 Robe River surface water pools

Water quality was monitored quarterly for the key pools of the Robe River during the reporting period (Q3 and Q4). Several water quality exceedances occurred for the early warning (Tier 1) Site Specific Guideline Values (SSGVs). The results from the pool water quality monitoring are provided in Appendix 1, with specific exceedance details outlined in Table 3. Biennial sediment sampling was carried out in 2024, supporting the water quality assessment in the pools as required.

Table 3: Exceedances of Tier 1 or Tier 2 SSGVs at the Robe River pools

| Indicators | SSGV (Tier 1) | SSGV (Tier 2) | Quarter 3 | | Quarter 4 | |
|----------------------|----------------------------|---------------|-------------|-------|-------------|-------|
| Nitrate as N (mg/L) | Nitrate as N Benchmark Max | 15 | SW16MEH0003 | 0.03 | SW16MEH0003 | 0.06* |
| Chlorophyll a (mg/L) | >0.01 | N/A | RRU4 | 0.574 | N/A | |
| | | | Paturarr | 0.114 | | |
| | | | Watpari | 0.022 | | |

*Exceeded for two or more monitoring events per annum during the reporting period.

Total recoverable hydrocarbons (TRH) were detected in the third quarter by water quality monitoring at RRU4 which is a reference location upstream of the mine. 0.49 mg/L TRH (C10-C40) was recorded at pool RRU4, however, TRH was not detected in any of the other pools, refer to Appendix 1.

Early warning triggers (Tier 1) for pool water quality were exceeded in Q3 and Q4 for nitrate as N (nitrate) and chlorophyll a levels. For a detailed comparison of the results to the individually set early warning trigger criteria for each pool, refer to Appendix 1.

At downstream reference pool SW16MEH0003, the nitrate SSGV (site specific benchmark maximum) was exceeded for two monitoring events during the reporting period, recording 0.03 mg/L and 0.06 mg/L in Q3 and Q4 respectively, compared to a SSGV of 0.01 mg/L. Resampling efforts to verify the nitrate exceedance were conducted as soon as practicable and SW16MEH0003 was observed to have insufficient water to sample. Observations included drying pool, a significant amount of mud and high levels of cattle activity.

Three chlorophyll a exceedances were recorded in Q3: 0.0574 mg/L at RRU4, 0.114 mg/L at Paturarr, and 0.022 mg/L at Watpari. Resampling to verify these exceedances was carried out as soon as practicable, and all three pools were found to be dry and could not be resampled.

The early warning triggers (Tier 1) were investigated, and it was determined that the exceedances were likely attributed to factors such as low rainfall during the reporting period (241.6mm, Figure 1), a significant reduction in pool sizes, no mine dewatering discharges (no risk of impacting pool water quality) and an observation of significant cattle activity at the pools, in particular at pools which were not dry in Q4. Once the results of the biannual aquatic fauna monitoring and subterranean (stygo fauna) monitoring were made available, a review was conducted to assess if there was any evidence suggesting an impact on diversity or composition of aquatic invertebrates or fish. There were no adverse effects on aquatic fauna and stygo fauna diversity and composition as a result from mining operations. Further discussion on the aquatic fauna and stygo fauna monitoring results can be found in Section 4.2.

4.1.2 Jimmawurrada Bores

Groundwater samples were collected and analysed from four monitoring bores within Jimmawurrada Creek: PZ09MEJ004, JWO21, JWO23, and JWO29. The groundwater quality results for Q3 and Q4 are detailed in Appendix 3, along with the Site-Specific Water Quality Values (SSGVs), where applicable.

The Zinc SSGV was exceeded at PZ09MEJ004 for the first time in the Q4 2024 sampling, recording 0.015 mg/L. However, when adjusting for water hardness as measured at the time of sampling, due to the extreme hardness of the water (>400mg/L as CaCO₃), this result did not exceed the hardness adjusted Tier 1 (0.072mg/L) or Tier 2 (0.072mg/L) trigger values. No other SSGVs were exceeded at any of the bores.

Table 4: Quarterly water quality results for the Jimmawurrada groundwater monitoring bores

| Parameter | Unit | SSGV: Early Response Criteria (Tier 1) | SSGV: Trigger Criteria (Tier 2) | PZ09MEJ004 | | JWO21 | | JWO23 | | JWO29 | |
|---------------------------------------|-----------------|--|---------------------------------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|
| | | | | Q3 | Q4 | Q3 | Q4 | Q3 | Q4 | Q3 | Q4 |
| | | | | 29/08/2024 | 6/11/2024 | 30/08/2024 | 7/11/2024 | 30/08/2024 | 7/11/2024 | 30/08/2024 | 7/11/2024 |
| Total Alkalinity (CaCO ₃) | mg/L | N/A | N/A | 287 | 295 | 203 | 208 | 226 | 240 | 276 | 278 |
| Electrical Conductivity | µS/cm | N/A | N/A | 1325 | 1613 | 655 | 671 | 822 | 836 | 846 | 854 |
| Total Hardness (CaCO ₃) | mg/L | N/A | N/A | 450 | 428 | 204 | 212 | 245 | 266 | 284 | 295 |
| pH | pH units | <6.5 or >8 | <6.5 or >8.3 | 7.08 | 7.22 | 7.09 | 7.1 | 7.05 | 7.1 | 7.02 | 7.03 |
| TDS | mg/L | N/A | N/A | 766 | 1048 | 370 | 378 | 462 | 472 | 482 | 484 |
| Temperature | Degrees Celsius | N/A | N/A | 23.5 | 28.6 | 30.7 | 33.5 | 31.9 | 33.7 | 29.7 | 33.7 |
| TSS | mg/L | N/A | N/A | <5 | 13 | 8 | <5 | 6 | 109 | 20 | 10 |
| Aluminium | mg/L | N/A | N/A | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Arsenic | mg/L | N/A | N/A | 0.002 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Barium | mg/L | 0.0702 | 0.0803 | 0.028 | 0.026 | 0.012 | 0.011 | 0.028 | 0.03 | 0.022 | 0.021 |
| Boron | mg/L | N/A | N/A | 0.35 | 0.35 | 0.22 | 0.22 | 0.24 | 0.24 | 0.25 | 0.25 |
| Cadmium | mg/L | N/A | N/A | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| Calcium | mg/L | N/A | N/A | 91 | 84 | 34 | 34 | 40 | 44 | 48 | 49 |
| Chloride | mg/L | N/A | N/A | 232 | 260 | 79 | 66 | 108 | 87 | 97 | 79 |
| Chromium | mg/L | N/A | N/A | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Cobalt | mg/L | N/A | N/A | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Copper | mg/L | 0.001 | 0.0014 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Iron | mg/L | N/A | N/A | 0.91 | 0.38 | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.05 |
| Lead | mg/L | N/A | N/A | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Magnesium | mg/L | N/A | N/A | 54 | 53 | 29 | 31 | 34 | 38 | 40 | 42 |
| Manganese | mg/L | N/A | N/A | 0.17 | 0.139 | <0.001 | <0.001 | 0.004 | 0.013 | <0.001 | 0.002 |

| Parameter | Unit | SSGV: Early Response Criteria (Tier 1) | SSGV: Trigger Criteria (Tier 2) | PZ09MEJ004 | | JWO21 | | JWO23 | | JWO29 | |
|--------------------------|------|--|---------------------------------|------------|--------------|------------|-----------|------------|-----------|------------|-----------|
| | | | | Q3 | Q4 | Q3 | Q4 | Q3 | Q4 | Q3 | Q4 |
| | | | | 29/08/2024 | 6/11/2024 | 30/08/2024 | 7/11/2024 | 30/08/2024 | 7/11/2024 | 30/08/2024 | 7/11/2024 |
| Mercury | mg/L | N/A | N/A | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| Molybdenum | mg/L | N/A | N/A | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Nickel | mg/L | N/A | N/A | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Nitrate as N | mg/L | N/A ¹ | 15 | 0.01 | 0.09 | 0.38 | 0.53 | 0.13 | 0.06 | 0.31 | 0.48 |
| Nitrite and N | mg/L | N/A | N/A | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 |
| Total Nitrogen | mg/L | N/A | N/A | 0.2 | 0.4 | 0.5 | 0.7 | 2.9 | 3.5 | 0.3 | 0.6 |
| Dissolved Oxygen | mg/L | N/A | N/A | 6.1 | 6.1 | 7.7 | 7.1 | 5.7 | 1.7 | 7.2 | 6.7 |
| Total Phosphorus | mg/L | N/A | N/A | 0.03 | 0.07 | <0.01 | <0.01 | 0.43 | 0.57 | 0.02 | <0.01 |
| Potassium | mg/L | N/A | N/A | 7 | 6 | 5 | 5 | 8 | 8 | 7 | 6 |
| Selenium | mg/L | N/A | N/A | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Sodium | mg/L | N/A | N/A | 90 | 92 | 48 | 51 | 65 | 73 | 59 | 62 |
| Strontium | mg/L | 1 | 2.5 | 0.353 | 0.339 | 0.158 | 0.152 | 0.191 | 0.196 | 0.233 | 0.219 |
| Sulphate | mg/L | N/A | N/A | 48 | 50 | 22 | 23 | 38 | 38 | 40 | 38 |
| Sulphur | mg/L | N/A | N/A | 16 | 20 | 7 | 8 | 15 | 13 | 12 | 13 |
| Uranium | mg/L | N/A | N/A | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 |
| Vanadium | mg/L | N/A | N/A | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Zinc | mg/L | 0.00248* | 0.008* | <0.005 | 0.015 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Dissolved Organic Carbon | mg/L | N/A | N/A | <1 | 1 | <1 | <1 | 2 | 4 | <1 | 2 |

*SSGVs presented in the table have not been adjusted for hardness at the time of sampling. Any exceedances are then reviewed and compared to hardness adapted triggers, and discussed in section 4.1.2.

4.2 Aquatic fauna and stygofauna diversity

4.2.1 Aquatic fauna

During the reporting period, a comprehensive analysis was conducted on the aquatic fauna of the Robe River pools in 2024, following surveys undertaken at 19 pools in May and August 2024. This included species-level information on phytoplankton, microinvertebrates, hyporheos fauna, macroinvertebrates, and fish collected from both reference sites and exposed areas (zone 1 and zone 2). The data was analysed using both univariate and multivariate techniques.

Spatial and temporal differences in habitat conditions, sediment, and water quality were noted across the Robe River catchment, but these differences were not found to be caused by mining operations. Instead, they reflect broader catchment effects attributable to drought conditions, evapoconcentration, alluvial groundwater throughflow, and localized impacts from unrestricted livestock access, such as eutrophication. No significant differences in the diversity of hyporheos fauna, microinvertebrates, macroinvertebrate, or fish communities were found along the Robe River main channel or compared to upstream control reference conditions.

4.2.2 Stygofauna (including Blind Cave Eel)

An abundant and diverse stygofauna assemblage was recorded from 19 sites (13 impact and six reference) during 2024 Mesa J Hub stygofauna monitoring survey. A total of 2,097 stygofauna specimens were collected, including 39 species / operational taxonomic units (OTUs), representing ten orders and 16 families, as well as 45 indeterminate, higher-level identifications.

As part of the 2024 targeted blind cave eel (*Ophisternon candidum*, BCE) survey environmental DNA (eDNA) sampling was conducted at 33 sites (18 bores and 15 surface water pools), including seven sites from within the modelled extent of the Mesa H groundwater drawdown (noting that abstraction has not yet commenced at Mesa H). BCE eDNA was detected from 17 sites, including two of the seven sites within the modelled drawdown area, which was an increase from previous monitoring in 2023 (Figure 1). Including results from previous survey efforts, the BCE has now been detected at 47 sites in the Robe River, Peter Creek and Fortescue River catchments. This indicates that the BCE currently persists within the Robe River catchment (over a linear distance of 150 km) and specifically within the Mesa H modelled drawdown area.

The results of the 2024 stygofauna and targeted BCE monitoring broadly demonstrates the persistence of stygofauna communities, including BCE, and their habitats in compliance with the threshold criteria in the Action Management Plan.

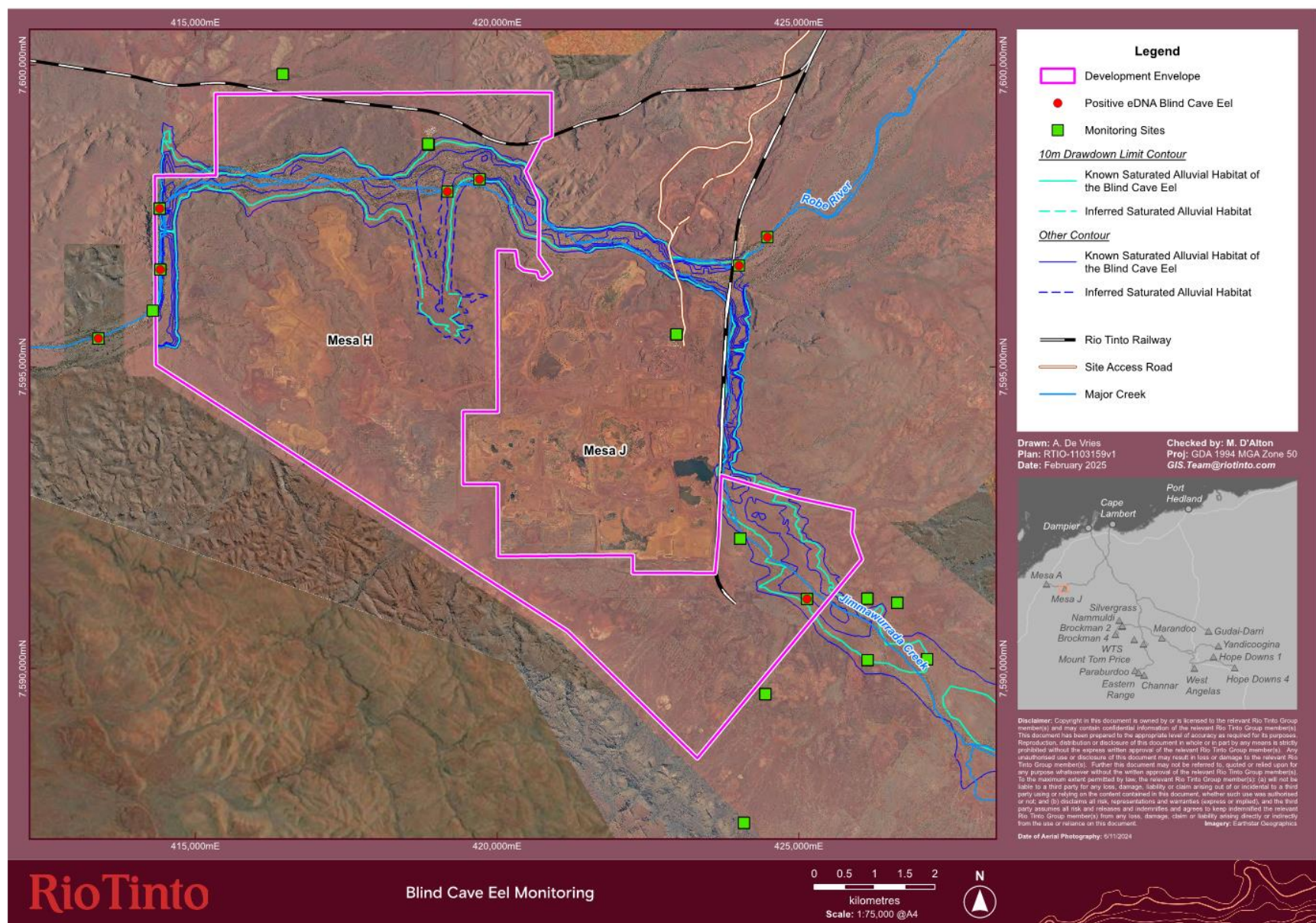


Figure 1: Blind Cave Eel monitoring sites, indicating positive eDNA hits

4.3 Groundwater drawdown

Groundwater levels declined in all monitoring points during 2024 (Figure 2), however the early warning, trigger or threshold criteria were not exceeded at any of the monitoring bores during 2024. Decline was in line with the seasonal conditions; rainfall recorded at the Mesa J Weather Station in 2024 was 241.6 mm, far below the long-term average recorded at the Pannawonica BOM Weather Station of 409.2 mm. 61.4 mm of rainfall was recorded towards the end of December 2024, and a slight increase in water level was observed at the groundwater bores with telemetered water level loggers (JWO21, JWO23, PZ10BUN041). Modelling has not predicted an exceedance of the 10 m drawdown threshold in any of the monitored groundwater bores.

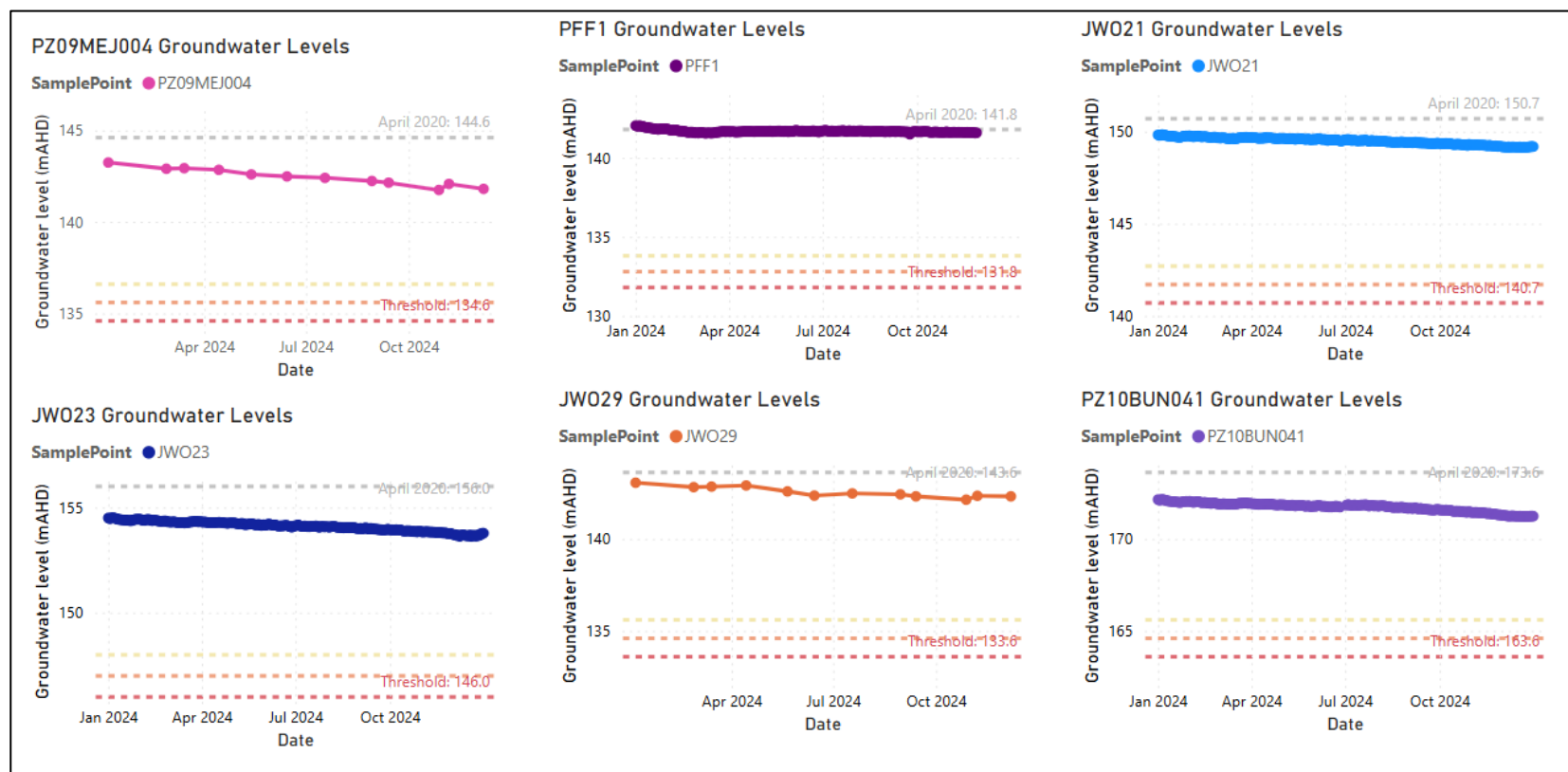


Figure 2: Groundwater levels (mAHD) at the 6 Jimmawurrada Creek groundwater monitoring bores

5 New environmental risks

There are no new environmental risks that have become apparent during the reporting period.

6 Declaration of accuracy

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

Signed:

Full name:

Position:

Organisation:

Date:



7 Appendices

Appendix 1: Quarterly water quality results for the Robe River pools and comparison to Tier 1 and Tier 2 SSGVs

Table 5: Quarterly water quality for RRU3 and comparison to Tier 1 and Tier 2 SSGV

| Parameter | Unit | SSGV: Early Response Criteria (Tier 1) | SSGV: Trigger Criteria (Tier 2) | RRU3 | RRU3 |
|---------------------------------------|----------|--|---------------------------------|----------|---------|
| Date | N/A | N/A | N/A | Q3 2024 | Q4 2024 |
| Total Alkalinity (CaCO ₃) | mg/L | N/A | N/A | 216 | Dry |
| Electrical Conductivity | µS/cm | 900 | 1000 | 1081* | Dry |
| Total Hardness (CaCO ₃) | mg/L | N/A | N/A | 262 | Dry |
| pH | pH units | <6.5 or >8 | <6.5 or >8.4 | 7.14 | Dry |
| TDS | mg/L | N/A | N/A | 461 | Dry |
| Temperature | °C | N/A | N/A | 24.3 | Dry |
| TSS | mg/L | N/A | N/A | <5 | Dry |
| Turbidity | NTU | N/A | N/A | 3.4 | Dry |
| Aluminium | mg/L | N/A | N/A | <0.005 | Dry |
| Arsenic | mg/L | N/A | N/A | 0.0003 | Dry |
| Total Arsenic | mg/L | N/A | N/A | 0.0003 | Dry |
| Barium | mg/L | 0.0702 | 0.0803 | 0.069 | Dry |
| Boron | mg/L | N/A | N/A | 0.231 | Dry |
| Cadmium | mg/L | N/A | N/A | <0.00005 | Dry |
| Calcium | mg/L | N/A | N/A | 53.7 | Dry |
| Chloride | mg/L | N/A | N/A | 124 | Dry |
| Chromium | mg/L | N/A | N/A | <0.0002 | Dry |
| Total Chromium | mg/L | N/A | N/A | <0.0002 | Dry |
| Cobalt | mg/L | N/A | N/A | 0.0007 | Dry |
| Copper | mg/L | 0.001 | 0.0014 | <0.0005 | Dry |
| Iron | mg/L | N/A | N/A | 0.175 | Dry |
| Lead | mg/L | N/A | N/A | <0.0001 | Dry |
| Magnesium | mg/L | N/A | N/A | 31 | Dry |
| Manganese | mg/L | N/A | N/A | 0.276 | Dry |
| Mercury | mg/L | N/A | N/A | <0.0004 | Dry |
| Molybdenum | mg/L | N/A | N/A | 0.0002 | Dry |
| Nickel | mg/L | N/A | N/A | <0.0005 | Dry |
| Ammonia Nitrogen | mg/L | N/A | N/A | 0.1 | Dry |
| Nitrate as N | mg/L | 0.02 | 15 | 0.01 | Dry |
| Nitrite and N | mg/L | N/A | N/A | <0.01 | Dry |
| Total Nitrogen | mg/L | N/A | N/A | 0.2 | Dry |
| Dissolved Oxygen | mg/L | N/A | N/A | 3.73 | Dry |
| Total Phosphorus | mg/L | N/A | N/A | <0.01 | Dry |
| Potassium | mg/L | N/A | N/A | 7.2 | Dry |
| Selenium | mg/L | N/A | N/A | <0.0002 | Dry |
| Total Selenium | mg/L | N/A | N/A | <0.0002 | Dry |
| Silicon (SiO ₂) | mg/L | N/A | N/A | 41.1 | Dry |
| Sodium | mg/L | N/A | N/A | 69.6 | Dry |
| Strontium | mg/L | 1 | 2.5 | 0.244 | Dry |
| Sulphate | mg/L | N/A | N/A | 33 | Dry |
| Sulphur | mg/L | N/A | N/A | 12 | Dry |
| Uranium | mg/L | N/A | N/A | 0.00017 | Dry |
| Vanadium | mg/L | N/A | N/A | <0.0002 | Dry |
| Zinc | mg/L | 0.00248 | 0.008 | <0.001 | Dry |
| Chlorophyll a | mg/L | >0.01 | N/A | 0.003 | Dry |
| Dissolved Organic Carbon | mg/L | N/A | N/A | 2 | Dry |
| TRH (C10-C40) | mg/L | N/A | N/A | <0.1 | Dry |

*Did not exceed for two or more monitoring events per annum during the reporting period.

Table 6: Quarterly water quality for RRU4 and comparison to Tier 1 and Tier 2 SSGV

| Parameter | Unit | SSGV: Early Response Criteria (Tier 1) | SSGV: Trigger Criteria (Tier 2) | RRU4 | RRU4 |
|---------------------------------------|----------|--|---------------------------------|----------|---------|
| Date | N/A | N/A | N/A | Q3 2024 | Q4 2024 |
| Total Alkalinity (CaCO ₃) | mg/L | N/A | N/A | 260 | Dry |
| Electrical Conductivity | µS/cm | 900 | 1000 | 1478* | Dry |
| Total Hardness (CaCO ₃) | mg/L | N/A | N/A | 427 | Dry |
| pH | pH units | <6.5 or >8 | <6.5 or >8.4 | 7.87 | Dry |
| TDS | mg/L | N/A | N/A | 775 | Dry |
| Temperature | °C | N/A | N/A | 16.7 | Dry |
| TSS | mg/L | N/A | N/A | 560 | Dry |
| Turbidity | NTU | N/A | N/A | 100 | Dry |
| Aluminium | mg/L | N/A | N/A | <0.005 | Dry |
| Arsenic | mg/L | N/A | N/A | 0.001 | Dry |
| Total Arsenic | mg/L | N/A | N/A | 0.0011 | Dry |
| Barium | mg/L | 0.0702 | 0.0803 | 0.0666 | Dry |
| Boron | mg/L | N/A | N/A | 0.234 | Dry |
| Cadmium | mg/L | N/A | N/A | <0.00005 | Dry |
| Calcium | mg/L | N/A | N/A | 69 | Dry |
| Chloride | mg/L | N/A | N/A | 164 | Dry |
| Chromium | mg/L | N/A | N/A | <0.0002 | Dry |
| Total Chromium | mg/L | N/A | N/A | 0.0002 | Dry |
| Cobalt | mg/L | N/A | N/A | 0.0003 | Dry |
| Copper | mg/L | 0.001 | 0.0014 | <0.0005 | Dry |
| Iron | mg/L | N/A | N/A | 0.412 | Dry |
| Lead | mg/L | N/A | N/A | <0.0001 | Dry |
| Magnesium | mg/L | N/A | N/A | 61.8 | Dry |
| Manganese | mg/L | N/A | N/A | 0.102 | Dry |
| Mercury | mg/L | N/A | N/A | <0.00004 | Dry |
| Molybdenum | mg/L | N/A | N/A | 0.0015 | Dry |
| Nickel | mg/L | N/A | N/A | 0.0007 | Dry |
| Ammonia Nitrogen | mg/L | N/A | N/A | 1.19 | Dry |
| Nitrate as N | mg/L | 0.03 | 15 | 0.27* | Dry |
| Nitrite and N | mg/L | N/A | N/A | <0.01 | Dry |
| Total Nitrogen | mg/L | N/A | N/A | 3.7 | Dry |
| Dissolved Oxygen | mg/L | N/A | N/A | 3.52 | Dry |
| Total Phosphorus | mg/L | N/A | N/A | 0.21 | Dry |
| Potassium | mg/L | N/A | N/A | 21.6 | Dry |
| Selenium | mg/L | N/A | N/A | 0.0003 | Dry |
| Total Selenium | mg/L | N/A | N/A | 0.0003 | Dry |
| Silicon (SiO ₂) | mg/L | N/A | N/A | 14.9 | Dry |
| Sodium | mg/L | N/A | N/A | 88.3 | Dry |
| Strontium | mg/L | 1 | 2.5 | 0.32 | Dry |
| Sulphate | mg/L | N/A | N/A | 184 | Dry |
| Sulphur | mg/L | N/A | N/A | 55 | Dry |
| Uranium | mg/L | N/A | N/A | 0.00197 | Dry |
| Vanadium | mg/L | N/A | N/A | 0.0006 | Dry |
| Zinc | mg/L | 0.00248 | 0.008 | <0.001 | Dry |
| Chlorophyll a | mg/L | >0.01 | N/A | 0.574 | Dry |
| Dissolved Organic Carbon | mg/L | N/A | N/A | 14 | Dry |
| TRH (C10-C40) | mg/L | N/A | N/A | 0.49 | Dry |

*Did not exceed for two or more monitoring events per annum during the reporting period.

Table 7: Quarterly water quality for Medawandy and comparison to Tier 1 and Tier 2 SSGV

| Parameter | Unit | SSGV: Early Response Criteria (Tier 1) | SSGV: Trigger Criteria (Tier 2) | Medawandy | Medawandy |
|---------------------------------------|----------|--|---------------------------------|-----------|-----------|
| Date | N/A | N/A | N/A | Q3 2024 | Q4 2024 |
| Total Alkalinity (CaCO ₃) | mg/L | N/A | N/A | 200 | 217 |
| Electrical Conductivity | µS/cm | 900 | 1000 | 1120* | 835 |
| Total Hardness (CaCO ₃) | mg/L | N/A | N/A | 258 | 244 |
| pH | pH units | <6.5 or >8 | <6.5 or >8.4 | 7.36 | 6.55 |
| TDS | mg/L | N/A | N/A | 443 | 474 |
| Temperature | °C | N/A | N/A | 25.5 | 27.3 |
| TSS | mg/L | N/A | N/A | <5 | <5 |
| Turbidity | NTU | N/A | N/A | 1.2 | 1.1 |
| Aluminium | mg/L | N/A | N/A | 0.009 | <0.005 |
| Arsenic | mg/L | N/A | N/A | <0.0002 | 0.0003 |
| Total Arsenic | mg/L | N/A | N/A | <0.0002 | 0.0003 |
| Barium | mg/L | 0.0702 | 0.0803 | 0.0532 | 0.0577 |
| Boron | mg/L | N/A | N/A | 0.22 | 0.17 |
| Cadmium | mg/L | N/A | N/A | <0.00005 | <0.00005 |
| Calcium | mg/L | N/A | N/A | 52.1 | 47.5 |
| Chloride | mg/L | N/A | N/A | 125 | 117 |
| Chromium | mg/L | N/A | N/A | <0.0002 | <0.0002 |
| Total Chromium | mg/L | N/A | N/A | <0.0002 | <0.0002 |
| Cobalt | mg/L | N/A | N/A | <0.0001 | <0.0001 |
| Copper | mg/L | 0.001 | 0.0014 | <0.0005 | <0.0005 |
| Iron | mg/L | N/A | N/A | 0.093 | 0.066 |
| Lead | mg/L | N/A | N/A | <0.0001 | <0.0001 |
| Magnesium | mg/L | N/A | N/A | 31.1 | 30.5 |
| Manganese | mg/L | N/A | N/A | 0.0035 | 0.0379 |
| Mercury | mg/L | N/A | N/A | <0.00004 | <0.00004 |
| Molybdenum | mg/L | N/A | N/A | 0.0002 | 0.0003 |
| Nickel | mg/L | N/A | N/A | <0.0005 | <0.0005 |
| Ammonia Nitrogen | mg/L | N/A | N/A | 0.02 | <0.01 |
| Nitrate as N | mg/L | 0.02 | 15 | 0.07* | <0.01 |
| Nitrite and N | mg/L | N/A | N/A | <0.01 | <0.01 |
| Total Nitrogen | mg/L | N/A | N/A | <0.1 | 0.2 |
| Dissolved Oxygen | mg/L | N/A | N/A | 6.14 | 3.31 |
| Total Phosphorus | mg/L | N/A | N/A | 0.01 | 0.02 |
| Potassium | mg/L | N/A | N/A | 7.2 | 7.9 |
| Selenium | mg/L | N/A | N/A | 0.0006 | 0.0004 |
| Total Selenium | mg/L | N/A | N/A | 0.0004 | 0.0004 |
| Silicon (SiO ₂) | mg/L | N/A | N/A | 40.2 | 38.8 |
| Sodium | mg/L | N/A | N/A | 62.6 | 61.6 |
| Strontium | mg/L | 1 | 2.5 | 0.22 | 0.248 |
| Sulphate | mg/L | N/A | N/A | 32 | 33 |
| Sulphur | mg/L | N/A | N/A | 12 | 11 |
| Uranium | mg/L | N/A | N/A | 0.00025 | 0.00032 |
| Vanadium | mg/L | N/A | N/A | 0.0016 | 0.0012 |
| Zinc | mg/L | 0.00248 | 0.008 | <0.001 | <0.001 |
| Chlorophyll a | mg/L | >0.01 | N/A | 0.003 | 0.002 |
| Dissolved Organic Carbon | mg/L | N/A | N/A | <1 | 2 |
| TRH (C10-C40) | mg/L | N/A | N/A | <0.1 | <0.1 |

*Did not exceed for two or more monitoring events per annum during the reporting period.

Table 8: Quarterly water quality for Robe River 3 and comparison to Tier 1 and Tier 2 SSGV

| Parameter | Unit | SSGV: Early Response Criteria (Tier 1) | SSGV: Trigger Criteria (Tier 2) | Robe River 3 | Robe River 3 |
|---------------------------------------|----------|--|---------------------------------|--------------|--------------|
| Date | N/A | N/A | N/A | Q3 2024 | Q4 2024 |
| Total Alkalinity (CaCO ₃) | mg/L | N/A | N/A | 196 | NS |
| Electrical Conductivity | µS/cm | 900 | 1000 | 1130* | NS |
| Total Hardness (CaCO ₃) | mg/L | N/A | N/A | 292 | NS |
| pH | pH units | <6.5 or >8 | <6.5 or >8.4 | 7.9 | NS |
| TDS | mg/L | N/A | N/A | 512 | NS |
| Temperature | °C | N/A | N/A | 22.2 | NS |
| TSS | mg/L | N/A | N/A | <5 | NS |
| Turbidity | NTU | N/A | N/A | 1.9 | NS |
| Aluminium | mg/L | N/A | N/A | <0.005 | NS |
| Arsenic | mg/L | N/A | N/A | 0.0003 | NS |
| Total Arsenic | mg/L | N/A | N/A | 0.0003 | NS |
| Barium | mg/L | 0.0702 | 0.0803 | 0.0667 | NS |
| Boron | mg/L | N/A | N/A | 0.206 | NS |
| Cadmium | mg/L | N/A | N/A | <0.00005 | NS |
| Calcium | mg/L | N/A | N/A | 55.8 | NS |
| Chloride | mg/L | N/A | N/A | 152 | NS |
| Chromium | mg/L | N/A | N/A | <0.0002 | NS |
| Total Chromium | mg/L | N/A | N/A | <0.0002 | NS |
| Cobalt | mg/L | N/A | N/A | <0.0001 | NS |
| Copper | mg/L | 0.001 | 0.0014 | <0.0005 | NS |
| Iron | mg/L | N/A | N/A | 0.046 | NS |
| Lead | mg/L | N/A | N/A | <0.0001 | NS |
| Magnesium | mg/L | N/A | N/A | 37.2 | NS |
| Manganese | mg/L | N/A | N/A | 0.0158 | NS |
| Mercury | mg/L | N/A | N/A | <0.00004 | NS |
| Molybdenum | mg/L | N/A | N/A | 0.0004 | NS |
| Nickel | mg/L | N/A | N/A | <0.0005 | NS |
| Ammonia Nitrogen | mg/L | N/A | N/A | 0.01 | NS |
| Nitrate as N | mg/L | 0.34 | 15 | 0.01 | NS |
| Nitrite and N | mg/L | N/A | N/A | <0.01 | NS |
| Total Nitrogen | mg/L | N/A | N/A | 0.1 | NS |
| Dissolved Oxygen | mg/L | N/A | N/A | 10.45 | NS |
| Total Phosphorus | mg/L | N/A | N/A | <0.01 | NS |
| Potassium | mg/L | N/A | N/A | 7.7 | NS |
| Selenium | mg/L | N/A | N/A | <0.0002 | NS |
| Total Selenium | mg/L | N/A | N/A | <0.0002 | NS |
| Silicon (SiO ₂) | mg/L | N/A | N/A | 35.6 | NS |
| Sodium | mg/L | N/A | N/A | 68.2 | NS |
| Strontium | mg/L | 1 | 2.5 | 0.27 | NS |
| Sulphate | mg/L | N/A | N/A | 34 | NS |
| Sulphur | mg/L | N/A | N/A | 14 | NS |
| Uranium | mg/L | N/A | N/A | 0.00043 | NS |
| Vanadium | mg/L | N/A | N/A | 0.0013 | NS |
| Zinc | mg/L | 0.00248 | 0.008 | <0.001 | NS |
| Chlorophyll a | mg/L | >0.01 | N/A | 0.002 | NS |
| Dissolved Organic Carbon | mg/L | N/A | N/A | 1 | NS |
| TRH (C10-C40) | mg/L | N/A | N/A | <0.1 | NS |

NS – No access due to heritage concerns. Access to be reinstated early 2025.

*Did not exceed for two or more monitoring events per annum during the reporting period.

Table 9: Quarterly water quality for Japanese Pool and comparison to Tier 1 and Tier 2 SSGV

| Parameter | Unit | SSGV: Early Response Criteria (Tier 1) | SSGV: Trigger Criteria (Tier 2) | Japanese Pool | Japanese Pool |
|---------------------------------------|----------|--|---------------------------------|---------------|---------------|
| Date | N/A | N/A | N/A | Q3 2024 | Q4 2024 |
| Total Alkalinity (CaCO ₃) | mg/L | N/A | N/A | Dry | Dry |
| Electrical Conductivity | µS/cm | 1100 | 1300 | Dry | Dry |
| Total Hardness (CaCO ₃) | mg/L | N/A | N/A | Dry | Dry |
| pH | pH units | <6.5 or >8 | <6.5 or >8.3 | Dry | Dry |
| TDS | mg/L | N/A | N/A | Dry | Dry |
| Temperature | °C | N/A | N/A | Dry | Dry |
| TSS | mg/L | N/A | N/A | Dry | Dry |
| Turbidity | NTU | N/A | N/A | Dry | Dry |
| Aluminium | mg/L | N/A | N/A | Dry | Dry |
| Arsenic | mg/L | N/A | N/A | Dry | Dry |
| Total Arsenic | mg/L | N/A | N/A | Dry | Dry |
| Barium | mg/L | 0.0702 | 0.0803 | Dry | Dry |
| Boron | mg/L | N/A | N/A | Dry | Dry |
| Cadmium | mg/L | N/A | N/A | Dry | Dry |
| Calcium | mg/L | N/A | N/A | Dry | Dry |
| Chloride | mg/L | N/A | N/A | Dry | Dry |
| Chromium | mg/L | N/A | N/A | Dry | Dry |
| Total Chromium | mg/L | N/A | N/A | Dry | Dry |
| Cobalt | mg/L | N/A | N/A | Dry | Dry |
| Copper | mg/L | 0.001 | 0.0014 | Dry | Dry |
| Iron | mg/L | N/A | N/A | Dry | Dry |
| Lead | mg/L | N/A | N/A | Dry | Dry |
| Magnesium | mg/L | N/A | N/A | Dry | Dry |
| Manganese | mg/L | N/A | N/A | Dry | Dry |
| Mercury | mg/L | N/A | N/A | Dry | Dry |
| Molybdenum | mg/L | N/A | N/A | Dry | Dry |
| Nickel | mg/L | N/A | N/A | Dry | Dry |
| Ammonia Nitrogen | mg/L | N/A | N/A | Dry | Dry |
| Nitrate as N | mg/L | 9.42 | 15 | Dry | Dry |
| Nitrite and N | mg/L | N/A | N/A | Dry | Dry |
| Total Nitrogen | mg/L | N/A | N/A | Dry | Dry |
| Dissolved Oxygen | mg/L | N/A | N/A | Dry | Dry |
| Total Phosphorus | mg/L | N/A | N/A | Dry | Dry |
| Potassium | mg/L | N/A | N/A | Dry | Dry |
| Selenium | mg/L | N/A | N/A | Dry | Dry |
| Total Selenium | mg/L | N/A | N/A | Dry | Dry |
| Silicon (SiO ₂) | mg/L | N/A | N/A | Dry | Dry |
| Sodium | mg/L | N/A | N/A | Dry | Dry |
| Strontium | mg/L | 1 | 2.5 | Dry | Dry |
| Sulphate | mg/L | N/A | N/A | Dry | Dry |
| Sulphur | mg/L | N/A | N/A | Dry | Dry |
| Uranium | mg/L | N/A | N/A | Dry | Dry |
| Vanadium | mg/L | N/A | N/A | Dry | Dry |
| Zinc | mg/L | 0.00248 | 0.008 | Dry | Dry |
| Chlorophyll a | mg/L | >0.01 | N/A | Dry | Dry |
| Dissolved Organic Carbon | mg/L | N/A | N/A | Dry | Dry |
| TRH (C10-C40) | mg/L | N/A | N/A | Dry | Dry |

Table 10: Quarterly water quality for Martangkuna and comparison to Tier 1 and Tier 2 SSGV

| Parameter | Unit | SSGV: Early Response Criteria (Tier 1) | SSGV: Trigger Criteria (Tier 2) | Martangkuna | Martangkuna |
|---------------------------------------|----------|--|---------------------------------|-------------|-------------|
| Date | N/A | N/A | N/A | Q3 2024 | Q4 2024 |
| Total Alkalinity (CaCO ₃) | mg/L | N/A | N/A | Dry | Dry |
| Electrical Conductivity | µS/cm | 1100 | 1300 | Dry | Dry |
| Total Hardness (CaCO ₃) | mg/L | N/A | N/A | Dry | Dry |
| pH | pH units | <6.5 or >8 | <6.5 or >8.3 | Dry | Dry |
| TDS | mg/L | N/A | N/A | Dry | Dry |
| Temperature | °C | N/A | N/A | Dry | Dry |
| TSS | mg/L | N/A | N/A | Dry | Dry |
| Turbidity | NTU | N/A | N/A | Dry | Dry |
| Aluminium | mg/L | N/A | N/A | Dry | Dry |
| Arsenic | mg/L | N/A | N/A | Dry | Dry |
| Total Arsenic | mg/L | N/A | N/A | Dry | Dry |
| Barium | mg/L | 0.0702 | 0.0803 | Dry | Dry |
| Boron | mg/L | N/A | N/A | Dry | Dry |
| Cadmium | mg/L | N/A | N/A | Dry | Dry |
| Calcium | mg/L | N/A | N/A | Dry | Dry |
| Chloride | mg/L | N/A | N/A | Dry | Dry |
| Chromium | mg/L | N/A | N/A | Dry | Dry |
| Total Chromium | mg/L | N/A | N/A | Dry | Dry |
| Cobalt | mg/L | N/A | N/A | Dry | Dry |
| Copper | mg/L | 0.001 | 0.0014 | Dry | Dry |
| Iron | mg/L | N/A | N/A | Dry | Dry |
| Lead | mg/L | N/A | N/A | Dry | Dry |
| Magnesium | mg/L | N/A | N/A | Dry | Dry |
| Manganese | mg/L | N/A | N/A | Dry | Dry |
| Mercury | mg/L | N/A | N/A | Dry | Dry |
| Molybdenum | mg/L | N/A | N/A | Dry | Dry |
| Nickel | mg/L | N/A | N/A | Dry | Dry |
| Ammonia Nitrogen | mg/L | N/A | N/A | Dry | Dry |
| Nitrate as N | mg/L | 5.20 | 15 | Dry | Dry |
| Nitrite and N | mg/L | N/A | N/A | Dry | Dry |
| Total Nitrogen | mg/L | N/A | N/A | Dry | Dry |
| Dissolved Oxygen | mg/L | N/A | N/A | Dry | Dry |
| Total Phosphorus | mg/L | N/A | N/A | Dry | Dry |
| Potassium | mg/L | N/A | N/A | Dry | Dry |
| Selenium | mg/L | N/A | N/A | Dry | Dry |
| Total Selenium | mg/L | N/A | N/A | Dry | Dry |
| Silicon (SiO ₂) | mg/L | N/A | N/A | Dry | Dry |
| Sodium | mg/L | N/A | N/A | Dry | Dry |
| Strontium | mg/L | 1 | 2.5 | Dry | Dry |
| Sulphate | mg/L | N/A | N/A | Dry | Dry |
| Sulphur | mg/L | N/A | N/A | Dry | Dry |
| Uranium | mg/L | N/A | N/A | Dry | Dry |
| Vanadium | mg/L | N/A | N/A | Dry | Dry |
| Zinc | mg/L | 0.00248 | 0.008 | Dry | Dry |
| Chlorophyll a | mg/L | >0.01 | N/A | Dry | Dry |
| Dissolved Organic Carbon | mg/L | N/A | N/A | Dry | Dry |
| TRH (C10-C40) | mg/L | N/A | N/A | Dry | Dry |

Table 11: Quarterly water quality for Paturarr and comparison to Tier 1 and Tier 2 SSGV

| Parameter | Unit | SSGV: Early Response Criteria (Tier 1) | SSGV: Trigger Criteria (Tier 2) | Paturarr | Paturarr |
|---------------------------------------|----------|--|---------------------------------|----------|----------|
| Date | N/A | N/A | N/A | Q3 2024 | Q4 2024 |
| Total Alkalinity (CaCO ₃) | mg/L | N/A | N/A | 205 | Dry |
| Electrical Conductivity | µS/cm | 1100 | 1300 | 1342* | Dry |
| Total Hardness (CaCO ₃) | mg/L | N/A | N/A | 355 | Dry |
| pH | pH units | <6.5 or >8 | <6.5 or >8.3 | 7.81 | Dry |
| TDS | mg/L | N/A | N/A | 600 | Dry |
| Temperature | °C | N/A | N/A | 17.4 | Dry |
| TSS | mg/L | N/A | N/A | 57 | Dry |
| Turbidity | NTU | N/A | N/A | 50 | Dry |
| Aluminium | mg/L | N/A | N/A | 0.011 | Dry |
| Arsenic | mg/L | N/A | N/A | 0.0006 | Dry |
| Total Arsenic | mg/L | N/A | N/A | 0.0007 | Dry |
| Barium | mg/L | 0.0702 | 0.0803 | 0.0339 | Dry |
| Boron | mg/L | N/A | N/A | 0.269 | Dry |
| Cadmium | mg/L | N/A | N/A | <0.00005 | Dry |
| Calcium | mg/L | N/A | N/A | 54.4 | Dry |
| Chloride | mg/L | N/A | N/A | 188 | Dry |
| Chromium | mg/L | N/A | N/A | <0.0002 | Dry |
| Total Chromium | mg/L | N/A | N/A | 0.0003 | Dry |
| Cobalt | mg/L | N/A | N/A | 0.0002 | Dry |
| Copper | mg/L | 0.001 | 0.0014 | <0.0005 | Dry |
| Iron | mg/L | N/A | N/A | 0.065 | Dry |
| Lead | mg/L | N/A | N/A | <0.0001 | Dry |
| Magnesium | mg/L | N/A | N/A | 53.3 | Dry |
| Manganese | mg/L | N/A | N/A | 0.0037 | Dry |
| Mercury | mg/L | N/A | N/A | <0.00004 | Dry |
| Molybdenum | mg/L | N/A | N/A | 0.0006 | Dry |
| Nickel | mg/L | N/A | N/A | <0.0005 | Dry |
| Ammonia Nitrogen | mg/L | N/A | N/A | 0.04 | Dry |
| Nitrate as N | mg/L | 2.80 | 15 | 0.64 | Dry |
| Nitrite and N | mg/L | N/A | N/A | 0.03 | Dry |
| Total Nitrogen | mg/L | N/A | N/A | 2.7 | Dry |
| Dissolved Oxygen | mg/L | N/A | N/A | 8.56 | Dry |
| Total Phosphorus | mg/L | N/A | N/A | 0.12 | Dry |
| Potassium | mg/L | N/A | N/A | 11.5 | Dry |
| Selenium | mg/L | N/A | N/A | 0.0014 | Dry |
| Total Selenium | mg/L | N/A | N/A | 0.0016 | Dry |
| Silicon (SiO ₂) | mg/L | N/A | N/A | 46.8 | Dry |
| Sodium | mg/L | N/A | N/A | 82.8 | Dry |
| Strontium | mg/L | 1 | 2.5 | 0.282 | Dry |
| Sulphate | mg/L | N/A | N/A | 78 | Dry |
| Sulphur | mg/L | N/A | N/A | 27 | Dry |
| Uranium | mg/L | N/A | N/A | 0.00098 | Dry |
| Vanadium | mg/L | N/A | N/A | 0.0052 | Dry |
| Zinc | mg/L | 0.00248 | 0.008 | <0.001 | Dry |
| Chlorophyll a | mg/L | >0.01 | N/A | 0.114 | Dry |
| Dissolved Organic Carbon | mg/L | N/A | N/A | 4 | Dry |
| TRH (C10-C40) | mg/L | N/A | N/A | <0.1 | Dry |

*Did not exceed for two or more monitoring events per annum during the reporting period.

Table 12: Quarterly water quality for Watpari and comparison to Tier 1 and Tier 2 SSGV

| Parameter | Unit | SSGV: Early Response Criteria (Tier 1) | SSGV: Trigger Criteria (Tier 2) | Watpari | Watpari |
|---------------------------------------|----------|--|---------------------------------|----------|---------|
| Date | N/A | N/A | N/A | Q3 2024 | Q4 2024 |
| Total Alkalinity (CaCO ₃) | mg/L | N/A | N/A | 286 | Dry |
| Electrical Conductivity | µS/cm | 1100 | 1300 | 1423* | Dry |
| Total Hardness (CaCO ₃) | mg/L | N/A | N/A | 408 | Dry |
| pH | pH units | <6.5 or >8 | <6.5 or >8.3 | 7.49 | Dry |
| TDS | mg/L | N/A | N/A | 662 | Dry |
| Temperature | °C | N/A | N/A | 19.7 | Dry |
| TSS | mg/L | N/A | N/A | 6 | Dry |
| Turbidity | NTU | N/A | N/A | 5.3 | Dry |
| Aluminium | mg/L | N/A | N/A | <0.005 | Dry |
| Arsenic | mg/L | N/A | N/A | 0.0005 | Dry |
| Total Arsenic | mg/L | N/A | N/A | 0.0006 | Dry |
| Barium | mg/L | 0.0702 | 0.0803 | 0.0606 | Dry |
| Boron | mg/L | N/A | N/A | 0.286 | Dry |
| Cadmium | mg/L | N/A | N/A | <0.00005 | Dry |
| Calcium | mg/L | N/A | N/A | 74.8 | Dry |
| Chloride | mg/L | N/A | N/A | 182 | Dry |
| Chromium | mg/L | N/A | N/A | <0.0002 | Dry |
| Total Chromium | mg/L | N/A | N/A | 0.0002 | Dry |
| Cobalt | mg/L | N/A | N/A | 0.0002 | Dry |
| Copper | mg/L | 0.001 | 0.0014 | <0.0005 | Dry |
| Iron | mg/L | N/A | N/A | 0.067 | Dry |
| Lead | mg/L | N/A | N/A | <0.0001 | Dry |
| Magnesium | mg/L | N/A | N/A | 53.7 | Dry |
| Manganese | mg/L | N/A | N/A | 0.0467 | Dry |
| Mercury | mg/L | N/A | N/A | <0.00004 | Dry |
| Molybdenum | mg/L | N/A | N/A | 0.0004 | Dry |
| Nickel | mg/L | N/A | N/A | <0.0005 | Dry |
| Ammonia Nitrogen | mg/L | N/A | N/A | 0.21 | Dry |
| Nitrate as N | mg/L | 3.50 | 15 | 0.66 | Dry |
| Nitrite and N | mg/L | N/A | N/A | 0.02 | Dry |
| Total Nitrogen | mg/L | N/A | N/A | 1.2 | Dry |
| Dissolved Oxygen | mg/L | N/A | N/A | 3.28 | Dry |
| Total Phosphorus | mg/L | N/A | N/A | 0.03 | Dry |
| Potassium | mg/L | N/A | N/A | 10.9 | Dry |
| Selenium | mg/L | N/A | N/A | 0.0007 | Dry |
| Total Selenium | mg/L | N/A | N/A | 0.0007 | Dry |
| Silicon (SiO ₂) | mg/L | N/A | N/A | 54 | Dry |
| Sodium | mg/L | N/A | N/A | 82.1 | Dry |
| Strontium | mg/L | 1 | 2.5 | 0.362 | Dry |
| Sulphate | mg/L | N/A | N/A | 70 | Dry |
| Sulphur | mg/L | N/A | N/A | 22 | Dry |
| Uranium | mg/L | N/A | N/A | 0.0007 | Dry |
| Vanadium | mg/L | N/A | N/A | 0.001 | Dry |
| Zinc | mg/L | 0.00248 | 0.008 | <0.001 | Dry |
| Chlorophyll a | mg/L | >0.01 | N/A | 0.022 | Dry |
| Dissolved Organic Carbon | mg/L | N/A | N/A | 1 | Dry |
| TRH (C10-C40) | mg/L | N/A | N/A | <0.1 | Dry |

*Did not exceed for two or more monitoring events per annum during the reporting period.

Table 13: Quarterly water quality for RRD4 and comparison to Tier 1 and Tier 2 SSGV

| Parameter | Unit | SSGV: Early Response Criteria (Tier 1) | SSGV: Trigger Criteria (Tier 2) | RRD4 | RRD4 |
|---------------------------------------|----------|--|---------------------------------|----------|----------|
| Date | N/A | N/A | N/A | Q3 2024 | Q4 2024 |
| Total Alkalinity (CaCO ₃) | mg/L | N/A | N/A | 294 | 282 |
| Electrical Conductivity | µS/cm | 1300 | 1500 | 1402* | 1121 |
| Total Hardness (CaCO ₃) | mg/L | N/A | N/A | 402 | 345 |
| pH | pH units | <6.5 or >8 | <6.5 or >8.2 | 7.41 | 7.56 |
| TDS | mg/L | N/A | N/A | 670 | 641 |
| Temperature | °C | N/A | N/A | 27.1 | 28.4 |
| TSS | mg/L | N/A | N/A | <5 | <5 |
| Turbidity | NTU | N/A | N/A | 0.4 | 0.7 |
| Aluminium | mg/L | N/A | N/A | <0.005 | <0.005 |
| Arsenic | mg/L | N/A | N/A | 0.0004 | 0.0004 |
| Total Arsenic | mg/L | N/A | N/A | 0.0004 | 0.0005 |
| Barium | mg/L | 0.0702 | 0.0803 | 0.0532 | 0.0548 |
| Boron | mg/L | N/A | N/A | 0.357 | 0.275 |
| Cadmium | mg/L | N/A | N/A | <0.00005 | <0.00005 |
| Calcium | mg/L | N/A | N/A | 70.5 | 61.2 |
| Chloride | mg/L | N/A | N/A | 175 | 184 |
| Chromium | mg/L | N/A | N/A | <0.0002 | <0.0002 |
| Total Chromium | mg/L | N/A | N/A | <0.0002 | <0.0002 |
| Cobalt | mg/L | N/A | N/A | <0.0001 | <0.0001 |
| Copper | mg/L | 0.001 | 0.0014 | <0.0005 | <0.0005 |
| Iron | mg/L | N/A | N/A | <0.002 | 0.016 |
| Lead | mg/L | N/A | N/A | <0.0001 | <0.0001 |
| Magnesium | mg/L | N/A | N/A | 55 | 46.7 |
| Manganese | mg/L | N/A | N/A | <0.0005 | 0.0007 |
| Mercury | mg/L | N/A | N/A | <0.00004 | <0.00004 |
| Molybdenum | mg/L | N/A | N/A | 0.0005 | 0.0004 |
| Nickel | mg/L | N/A | N/A | <0.0005 | <0.0005 |
| Ammonia Nitrogen | mg/L | N/A | N/A | 0.01 | 0.05 |
| Nitrate as N | mg/L | 1.60 | 15 | 0.84 | 0.62 |
| Nitrite and N | mg/L | N/A | N/A | <0.01 | 0.02 |
| Total Nitrogen | mg/L | N/A | N/A | 1 | 0.8 |
| Dissolved Oxygen | mg/L | N/A | N/A | 4.81 | 4.24 |
| Total Phosphorus | mg/L | N/A | N/A | 0.02 | <0.01 |
| Potassium | mg/L | N/A | N/A | 9.8 | 10.1 |
| Selenium | mg/L | N/A | N/A | 0.0017 | 0.0016 |
| Total Selenium | mg/L | N/A | N/A | 0.0014 | 0.0015 |
| Silicon (SiO ₂) | mg/L | N/A | N/A | 52.7 | 50.3 |
| Sodium | mg/L | N/A | N/A | 88.5 | 80.6 |
| Strontium | mg/L | 1 | 2.5 | 0.349 | 0.329 |
| Sulphate | mg/L | N/A | N/A | 71 | 59 |
| Sulphur | mg/L | N/A | N/A | 24 | 22 |
| Uranium | mg/L | N/A | N/A | 0.0009 | 0.00063 |
| Vanadium | mg/L | N/A | N/A | 0.0028 | 0.0026 |
| Zinc | mg/L | 0.00248 | 0.008 | <0.001 | <0.001 |
| Chlorophyll a | mg/L | >0.01 | N/A | <0.001 | 0.002 |
| Dissolved Organic Carbon | mg/L | N/A | N/A | 2 | 3 |
| TRH (C10-C40) | mg/L | N/A | N/A | <0.1 | <0.1 |

*Did not exceed for two or more monitoring events per annum during the reporting period.

Table 14: Quarterly water quality for Yeera Bluff and comparison to Tier 1 and Tier 2 SSGV

| Parameter | Unit | SSGV: Early Response Criteria (Tier 1) | SSGV: Trigger Criteria (Tier 2) | Yeera Bluff | Yeera Bluff |
|---------------------------------------|----------|--|---------------------------------|-------------|-------------|
| Date | N/A | N/A | N/A | Q3 2024 | Q4 2024 |
| Total Alkalinity (CaCO ₃) | mg/L | N/A | N/A | 349 | 357 |
| Electrical Conductivity | µS/cm | 1300 | 1500 | 1524* | 1279 |
| Total Hardness (CaCO ₃) | mg/L | N/A | N/A | 461 | 403 |
| pH | pH units | <6.5 or >8 | <6.5 or >8.2 | 7.41 | 7.81 |
| TDS | mg/L | N/A | N/A | 738 | 664 |
| Temperature | °C | N/A | N/A | 23.7 | 26.7 |
| TSS | mg/L | N/A | N/A | <5 | <5 |
| Turbidity | NTU | N/A | N/A | 0.6 | 0.8 |
| Aluminium | mg/L | N/A | N/A | <0.005 | <0.005 |
| Arsenic | mg/L | N/A | N/A | 0.0003 | 0.0005 |
| Total Arsenic | mg/L | N/A | N/A | 0.0003 | 0.0005 |
| Barium | mg/L | 0.0702 | 0.0803 | 0.0627 | 0.0608 |
| Boron | mg/L | N/A | N/A | 0.361 | 0.32 |
| Cadmium | mg/L | N/A | N/A | <0.00005 | <0.00005 |
| Calcium | mg/L | N/A | N/A | 84.5 | 64.4 |
| Chloride | mg/L | N/A | N/A | 178 | 207 |
| Chromium | mg/L | N/A | N/A | <0.0002 | <0.0002 |
| Total Chromium | mg/L | N/A | N/A | <0.0002 | <0.0002 |
| Cobalt | mg/L | N/A | N/A | <0.0001 | <0.0001 |
| Copper | mg/L | 0.001 | 0.0014 | <0.0005 | <0.0005 |
| Iron | mg/L | N/A | N/A | 0.025 | 0.073 |
| Lead | mg/L | N/A | N/A | <0.0001 | <0.0001 |
| Magnesium | mg/L | N/A | N/A | 60.7 | 58.9 |
| Manganese | mg/L | N/A | N/A | 0.0064 | 0.01 |
| Mercury | mg/L | N/A | N/A | <0.00004 | <0.00004 |
| Molybdenum | mg/L | N/A | N/A | 0.0003 | 0.0003 |
| Nickel | mg/L | N/A | N/A | <0.0005 | <0.0005 |
| Ammonia Nitrogen | mg/L | N/A | N/A | 0.01 | 0.03 |
| Nitrate as N | mg/L | 0.27 | 15 | 0.1 | <0.01 |
| Nitrite and N | mg/L | N/A | N/A | <0.01 | <0.01 |
| Total Nitrogen | mg/L | N/A | N/A | 0.1 | 0.2 |
| Dissolved Oxygen | mg/L | N/A | N/A | 3.37 | 5.33 |
| Total Phosphorus | mg/L | N/A | N/A | <0.01 | <0.01 |
| Potassium | mg/L | N/A | N/A | 10.7 | 11.5 |
| Selenium | mg/L | N/A | N/A | 0.0011 | 0.0011 |
| Total Selenium | mg/L | N/A | N/A | 0.0011 | 0.001 |
| Silicon (SiO ₂) | mg/L | N/A | N/A | 48 | 45.3 |
| Sodium | mg/L | N/A | N/A | 88.4 | 89 |
| Strontium | mg/L | 1 | 2.5 | 0.397 | 0.382 |
| Sulphate | mg/L | N/A | N/A | 69 | 58 |
| Sulphur | mg/L | N/A | N/A | 23 | 21 |
| Uranium | mg/L | N/A | N/A | 0.00092 | 0.0008 |
| Vanadium | mg/L | N/A | N/A | 0.0018 | 0.0024 |
| Zinc | mg/L | 0.00248 | 0.008 | <0.001 | 0.015* |
| Chlorophyll a | mg/L | >0.01 | N/A | <0.001 | 0.002 |
| Dissolved Organic Carbon | mg/L | N/A | N/A | 2 | 2 |
| TRH (C10-C40) | mg/L | N/A | N/A | <0.1 | <0.1 |

*Did not exceed for two or more monitoring events per annum during the reporting period.

Table 15: Quarterly water quality for Nyirynmaru and comparison to Tier 1 and Tier 2 SSGV

| Parameter | Unit | SSGV: Early Response Criteria (Tier 1) | SSGV: Trigger Criteria (Tier 2) | Nyirynmaru | Nyirynmaru |
|---------------------------------------|----------|--|---------------------------------|------------|------------|
| Date | N/A | N/A | N/A | Q3 2024 | Q4 2024 |
| Total Alkalinity (CaCO ₃) | mg/L | N/A | N/A | Dry | Dry |
| Electrical Conductivity | µS/cm | 1400 | 1600 | Dry | Dry |
| Total Hardness (CaCO ₃) | mg/L | N/A | N/A | Dry | Dry |
| pH | pH units | <6.5 or >8 | <6.5 or >8.2 | Dry | Dry |
| TDS | mg/L | N/A | N/A | Dry | Dry |
| Temperature | °C | N/A | N/A | Dry | Dry |
| TSS | mg/L | N/A | N/A | Dry | Dry |
| Turbidity | NTU | N/A | N/A | Dry | Dry |
| Aluminium | mg/L | N/A | N/A | Dry | Dry |
| Arsenic | mg/L | N/A | N/A | Dry | Dry |
| Total Arsenic | mg/L | N/A | N/A | Dry | Dry |
| Barium | mg/L | 0.0702 | 0.0803 | Dry | Dry |
| Boron | mg/L | N/A | N/A | Dry | Dry |
| Cadmium | mg/L | N/A | N/A | Dry | Dry |
| Calcium | mg/L | N/A | N/A | Dry | Dry |
| Chloride | mg/L | N/A | N/A | Dry | Dry |
| Chromium | mg/L | N/A | N/A | Dry | Dry |
| Total Chromium | mg/L | N/A | N/A | Dry | Dry |
| Cobalt | mg/L | N/A | N/A | Dry | Dry |
| Copper | mg/L | 0.001 | 0.0014 | Dry | Dry |
| Iron | mg/L | N/A | N/A | Dry | Dry |
| Lead | mg/L | N/A | N/A | Dry | Dry |
| Magnesium | mg/L | N/A | N/A | Dry | Dry |
| Manganese | mg/L | N/A | N/A | Dry | Dry |
| Mercury | mg/L | N/A | N/A | Dry | Dry |
| Molybdenum | mg/L | N/A | N/A | Dry | Dry |
| Nickel | mg/L | N/A | N/A | Dry | Dry |
| Ammonia Nitrogen | mg/L | N/A | N/A | Dry | Dry |
| Nitrate as N | mg/L | 0.16 | 15 | Dry | Dry |
| Nitrite and N | mg/L | N/A | N/A | Dry | Dry |
| Total Nitrogen | mg/L | N/A | N/A | Dry | Dry |
| Dissolved Oxygen | mg/L | N/A | N/A | Dry | Dry |
| Total Phosphorus | mg/L | N/A | N/A | Dry | Dry |
| Potassium | mg/L | N/A | N/A | Dry | Dry |
| Selenium | mg/L | N/A | N/A | Dry | Dry |
| Total Selenium | mg/L | N/A | N/A | Dry | Dry |
| Silicon (SiO ₂) | mg/L | N/A | N/A | Dry | Dry |
| Sodium | mg/L | N/A | N/A | Dry | Dry |
| Strontium | mg/L | 1 | 2.5 | Dry | Dry |
| Sulphate | mg/L | N/A | N/A | Dry | Dry |
| Sulphur | mg/L | N/A | N/A | Dry | Dry |
| Uranium | mg/L | N/A | N/A | Dry | Dry |
| Vanadium | mg/L | N/A | N/A | Dry | Dry |
| Zinc | mg/L | 0.00248 | 0.008 | Dry | Dry |
| Chlorophyll a | mg/L | >0.01 | N/A | Dry | Dry |
| Dissolved Organic Carbon | mg/L | N/A | N/A | Dry | Dry |
| TRH (C10-C40) | mg/L | N/A | N/A | Dry | Dry |

Table 16: Quarterly water quality for SW16MEH0003 and comparison to Tier 1 and Tier 2 SSGV

| Parameter | Unit | SSGV: Early Response Criteria (Tier 1) | SSGV: Trigger Criteria (Tier 2) | SW16MEH0003 | SW16MEH0003 |
|---------------------------------------|----------|--|---------------------------------|-------------|-------------|
| Date | N/A | N/A | N/A | Q3 2024 | Q4 2024 |
| Total Alkalinity (CaCO ₃) | mg/L | N/A | N/A | 286 | 296 |
| Electrical Conductivity | µS/cm | 1400 | 1600 | 1356 | 1157 |
| Total Hardness (CaCO ₃) | mg/L | N/A | N/A | 369 | 352 |
| pH | pH units | <6.5 or >8 | <6.5 or >8.2 | 7.94 | 7.92 |
| TDS | mg/L | N/A | N/A | 624 | 631 |
| Temperature | °C | N/A | N/A | 19.7 | 32.8 |
| TSS | mg/L | N/A | N/A | <5 | 35 |
| Turbidity | NTU | N/A | N/A | 1.6 | 30.8 |
| Aluminium | mg/L | N/A | N/A | <0.005 | <0.005 |
| Arsenic | mg/L | N/A | N/A | 0.0009 | 0.0036 |
| Total Arsenic | mg/L | N/A | N/A | 0.0009 | 0.0043 |
| Barium | mg/L | 0.0702 | 0.0803 | 0.0519 | 0.0608 |
| Boron | mg/L | N/A | N/A | 0.314 | 0.269 |
| Cadmium | mg/L | N/A | N/A | <0.00005 | <0.00005 |
| Calcium | mg/L | N/A | N/A | 69.4 | 63.2 |
| Chloride | mg/L | N/A | N/A | 162 | 192 |
| Chromium | mg/L | N/A | N/A | <0.0002 | <0.0002 |
| Total Chromium | mg/L | N/A | N/A | <0.0002 | 0.0005 |
| Cobalt | mg/L | N/A | N/A | 0.0001 | <0.0001 |
| Copper | mg/L | 0.001 | 0.0014 | <0.0005 | <0.0005 |
| Iron | mg/L | N/A | N/A | 0.11 | 0.056 |
| Lead | mg/L | N/A | N/A | <0.0001 | <0.0001 |
| Magnesium | mg/L | N/A | N/A | 47.6 | 47.3 |
| Manganese | mg/L | N/A | N/A | 0.0204 | 0.0202 |
| Mercury | mg/L | N/A | N/A | <0.00004 | <0.00004 |
| Molybdenum | mg/L | N/A | N/A | 0.0007 | 0.002 |
| Nickel | mg/L | N/A | N/A | <0.0005 | <0.0005 |
| Ammonia Nitrogen | mg/L | N/A | N/A | 0.64 | 0.68 |
| Nitrate as N | mg/L | 0.01 | 15 | 0.03 | 0.06 |
| Nitrite and N | mg/L | N/A | N/A | <0.01 | 0.02 |
| Total Nitrogen | mg/L | N/A | N/A | 0.6 | 1.6 |
| Dissolved Oxygen | mg/L | N/A | N/A | 3.88 | 4.73 |
| Total Phosphorus | mg/L | N/A | N/A | <0.01 | 0.11 |
| Potassium | mg/L | N/A | N/A | 10.1 | 11.5 |
| Selenium | mg/L | N/A | N/A | 0.0004 | 0.001 |
| Total Selenium | mg/L | N/A | N/A | 0.0004 | 0.0011 |
| Silicon (SiO ₂) | mg/L | N/A | N/A | 46.1 | 47.2 |
| Sodium | mg/L | N/A | N/A | 81.3 | 82.4 |
| Strontium | mg/L | 1 | 2.5 | 0.312 | 0.332 |
| Sulphate | mg/L | N/A | N/A | 47 | 80 |
| Sulphur | mg/L | N/A | N/A | 20 | 24 |
| Uranium | mg/L | N/A | N/A | 0.00114 | 0.00381 |
| Vanadium | mg/L | N/A | N/A | 0.0025 | 0.0181 |
| Zinc | mg/L | 0.00248 | 0.008 | <0.001 | <0.001 |
| Chlorophyll a | mg/L | >0.01 | N/A | 0.004 | 0.007 |
| Dissolved Organic Carbon | mg/L | N/A | N/A | 2 | 6 |
| TRH (C10-C40) | mg/L | N/A | N/A | <0.1 | <0.1 |