

DEPWS License No L10013 annual report for FY July 2022-June 2023.

As of 30 June 2023, the conditions precedent had not been fulfilled, and therefore no water abstraction has occurred during the reporting period.

The license came into effect with the issuance of the license L10013 dated 8 August 2023.

Condition ID	Obligation	Compliant (Yes, No, NA)	Comments
1. Water Extraction Conditions	1.1 The licence holder must extract no more than the Entitlement specified in Column 2 of Table 1 for the period listed in Column 1 of Table 1 for the Groundwater Resource. a) 20-Mar-2023 to 30-Jun-2023 (1433ML) b) 01-Jul-2023 to 30-Jun-2024 (4800ML) c) 01-Jul-2024 to 30-Jun-2025 (4800ML) d) 01-Jul-2025 to 30-Jun-2026 (4800ML) e) 01-Jul-2026 to 30-Jun-2027 (4800ML) f) 01-Jul-2027 to 30-Jun-2028 (4800ML) g) 01-Jul-2028 to 30-Jun-2029 (4800ML) h) 01-Jul-2029 to 30-Jun-2030 (4800ML) i) 01-Jul-2030 to 30-Jun-2031 (4800ML) j) 01-Jul-2031 to 30-Jun-2032 (4800ML) k) 01-Jul-2032 to 19-March-2033 (4600ML)	Yes	No water abstraction occurred during the reporting period, so the entitled volume was not exceeded.
1. Water Extraction Conditions	1.2 The licence holder must ensure water extracted under this licence is not wasted. For the purpose of this condition water is wasted where, irrespective of intention: a) more water is used than is reasonably necessary for the immediate purpose for which water is taken, including used for irrigation; b) an unnecessary or excessive flow or flood of water is allowed to occur; or c) water is taken without adequate control or supervision of its taking.	Yes	No water abstraction occurred during the reporting period.
1. Water Extraction Conditions	1.3 The licence holder may only extract water under this licence from a bore listed on this licence.	Yes	No water abstraction occurred during the reporting period.
1. Water Extraction Conditions	1.4 The licence holder must maintain the bores used for extracting water under this licence in accordance with the National Uniform Drillers Licensing Committee 'Minimum Construction Requirement for Water Bores in Australia' as amended from time to time.	Yes	Bores RN019034 and RN043563 have been constructed and maintained in accordance with this requirement.
1. Water Extraction Conditions	1.5 The licence holder may only extract water under this licence for use on a property listed on this licence.	Yes	No water abstraction occurred during the reporting period.
2. Water Metering and Reporting Conditions	2.1 Extraction from the listed groundwater resource must be recorded by a meter or meters supplied, installed and maintained by the licence holder in accordance with the Northern Territory Non-Urban Water Metering Code of Practice for Water Extraction Licences, as amended from time to time.	Yes	Conditions precedent were fulfilled with the license to take groundwater amendment issued by DEPWS on 8 August 2023. No groundwater was taken under this license prior to 8 August 2023. Meters on bores RN019034 and RN043563 have been installed and maintained in accordance with the Code.
2. Water Metering and Reporting Conditions	2.2 Within two (2) weeks of 30 September, December, March and June of each year, and within two weeks before the expiry date, the licence holder must supply the Controller with a record of water extraction, reported by calendar month, from each of the listed bores.	Yes	No water was taken as of the end of the financial year 30 June 2023.
3. Special Conditions	3.1 Where a condition of this licence requires a program, plan, report or other document to be approved by the Controller, the licence holder must: a) seek approval of the document, via email to water.regulation@nt.gov.au; and b) the document must be peer reviewed by a suitable qualified professional, unless otherwise agreed in writing by the Controller.	Yes	All documents have been approved by the water controller.
3. Special Conditions	3.2 A document submitted under condition 3.1 may be returned by an authorised officer or the Controller to the licence holder for amendment. The licence holder shall resubmit the document to the Controller within the timeframe specified in writing by the Controller or authorised officer.	Yes	

3. Special Conditions	3.3 The licence holder must undertake the minimum monitoring requirements specified in Schedule 2, Schedule 3 and Schedule 4, in accordance with monitoring commencement timing specified in the schedules.	Yes	While water abstraction under this license did not occur during the reporting year, monitoring in accordance to Schedules 2, 3, and 4 has been occurring, which includes - daily groundwater levels recorded by loggers and downloaded monthly. - Quarterly basic field water quality. - Annual general laboratory parameters.
3. Special Conditions	3.4 Until an adaptive management plan is approved under condition 3.5, if the limits in Schedule 2 or Schedule 3 are exceeded at any time the licence holder must: a) cease to take water under this licence; b) submit a record of water extraction from each of the listed bores to the Controller within 24 hours of limit exceedance being identified; and c) provide a report of non-compliance to the Controller of Water Resources in accordance with condition 3.9.	Yes	No limits have been exceeded.
3. Special Conditions	3.5 Within 1 year of commencement of extraction, the licence holder must develop and submit for approval by the Controller, and adaptive management plan.	NA	Plan is on schedule for submission within one year of commencement of extraction.
3. Special Conditions	3.6 Within 1 year of commencement of extraction, the licence holder must develop and submit for approval by the Controller a monitoring program to support the adaptive management plan.	NA	Plan is on schedule for submission within one year of commencement of extraction.
3. Special Conditions	3.7 The licence holder must seek approval on revisions to the adaptive management plan or monitoring program from the Controller, prior to implementing (other than typographical changes or revisions to formatting or referencing). The proposed revisions: a) must be prepared by a suitably qualified professional; b) include a tabulated summary of amendments; c) may be returned by the Controller or an authorised officer to the licence holder for amendment and the licence holder shall resubmit the document to the Controller within the timeframe specified in writing.	NA	Plans are on schedule for submission within one year of commencement of extraction.
3. Special Conditions	3.8 The licence holder must report adaptive management actions undertaken, in writing to the Controller, within 10 business days after the action has been undertaken. The report must outline: a) what triggered the requirement to undertake the action; b) the action taken; and c) the expected outcome from the action.	NA	No adaptive management actions have been undertaken.
3. Special Conditions	3.9 The licence holder must immediately notify the department on becoming aware of non-compliance (or suspected non-compliance) with any condition of this licence . A notification under this condition must: a) contain particulars of the non-compliance, including the identified or potential impacts associated with the non-compliance; b) identify the steps that have or will be taken to minimise the impacts of the non-compliance; and c) identify the steps that have or will be taken to prevent a reoccurrence or minimise the risk of further non-compliance.	NA	No non-compliances have been noted.
3. Special Conditions	3.10 The licence holder must submit the department an annual compliance report on or before the 30 September of each year of this licence. The annual report must: a) detail compliance with the conditions of this licence in the previous financial year; b) identify exceedance of trigger values in the licence documents and actions taken in response; and c) detail any changes to trigger values in the licence document.	Yes	
3. Special Conditions	3.11 The licence holder must publish on website which is publicly available: a) a copy of this licence; b) the approved adaptive management plan c) the approved monitoring program d) details of non-compliance reported in accordance with Condition 3.9 e) copies of annual reports prepared in accordance with Condition 3.10 f) other documents related to this licence, or the activities conducted under it, as directed by the Controller.	Yes	License L10013 is on the Arafura website. This annual report will be put on the Arafura website once accepted by DEPWS and no additional changes are required.
3. Special Conditions	3.12 The licence holder may only extract water under this licence for Approved Mining Activities.	Yes	Extracted water will only be used for approved mining activities.

3. Special Conditions	3.13 If the mine management plan associated with the Approved Mining Activity is revoked or expired, the licence holder must inform the Controller in writing within 7 days via email to <a href="mailto:water.regulation@nt.gov.au">water.regulation@nt.gov.au</a> .	Yes	The MMP is current and presented on Arafura's website.
3. Special Conditions	<p>3.14 The licence holder must undertake groundwater dependent ecosystem (GDE) verification, including:</p> <p>a) undertake a baseline assessment of groundwater dependent ecosystem using remote sensing techniques consistent with Information Guidelines Explanatory Note: Assessing Groundwater Dependent Ecosystems 2019.</p> <p>b) Quantify the spatial extent of groundwater dependent ecosystems at vegetation community level.</p> <p>c) Quantify the proportion of groundwater dependent ecosystems determined under 3.14(b) which is anticipated to be impacted by drawdown in the life of mine using the assessed groundwater model, or a model updated in accordance with condition 3.15 (Model improvement).</p> <p>d) Provide a report to the Controller for approval which:</p> <ol style="list-style-type: none"> <li>i. documents the assessment under parts (a), (b) and (c) of this condition;</li> <li>ii. documents any updates to the adaptive management plan to mitigate impacts to GDEs; and</li> <li>iii. verifies that impact to groundwater dependent ecosystems at an ecologically significant scale as a result of drawdown will be avoided.</li> </ol>	Yes	This work is ongoing and will be reported to DEPWS.
3. Special Conditions	<p>3.15 Model improvement and verification the licence holder must, within 2 years of commencement of extraction, undertake a program of improvement, and verification of the assessed groundwater model, which:</p> <p>a) provides for independent peer review, and integration of peer reviewer recommendations to the satisfaction of the peer reviewer, at each stage of the program</p> <p>b) sets aquifer investigation and modelling goals based on reducing predictive uncertainty;</p> <p>d) includes obtaining site specific aquifer data, in accordance with goals set under 3.15(c);</p> <p>e) updates the model, based on data obtained through 3.15(c)</p> <p>f) includes assessment of the updated model with respect to Class 2 requirements of a groundwater model in the Australian Groundwater Modelling Guidelines (Barnett et al, 2012), and the goals set in part 3.15(c); and</p> <p>g) concludes with a detailed model report consistent with the Australian Groundwater Modelling Guidelines (Barnett et al, 2012) outlining:</p> <ol style="list-style-type: none"> <li>i. the program undertaken;</li> <li>ii. predicted drawdown impacts at five yearly intervals for the remainder of the life of mine -displayed as both drawdown contours and hydrographs at representative or sensitive locations;</li> <li>iii. comparison of the magnitude and extend of the predicted drawdown in the updated model and assessed groundwater model, demonstrating that assessed groundwater model; and</li> <li>iv. any revision to the pumping regime or bore field design which will be implemented to achieve 3.15(g)(iii).</li> </ol>	Yes	This work is ongoing and will be reported to DEPWS within two years of the commencement of extraction.