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Port Macquarie-Hastings Council
Burrawan Street
Port Macquarie, NSW 2444

Approval number: 16561.1

Notice of determination

Section 60 approval for Bonny Hills Recycled Water System

I am writing to inform you that on Thursday, 1 February 2024, I, the Director Local Water Utilities, as delegate of the Minister for Water, in accordance with Section 60 (c) of the Local Government Act, has granted approval for your application, Bonny Hills Recycled Water System, Magellan Place, Bonny Hills. This approval supersedes the approval previously issued Friday, 19 January 2024. Text that appears in this approval and was not in the superseded approval is marked with a #.

The approval is subject to the following conditions :

- Consistency with design - a local water utility can only construct drinking water treatment works that are consistent with those approved, or that it allows for sewage to be discharged, treated, or supplied in a way that is broadly consistent with the way that was approved and not a 'significant change'. Some degree of variation is acceptable to ensure that the practical realities associated with design and construction, or treatment and discharge, are accounted for.
 - In this condition a 'significant change' includes reference to:
 - (a) a change to the treatment process
 - (b) a change to a critical control point which is outside the validated range for the treatment process
 - (c) identification of a recycled water supply risk that is not reduced to an acceptable level as defined by the Australian Guidelines for Water Recycling
 - (d) a change to the persons, purpose or quantity specified in Table 1
- Consistency with standards - Local water utilities must always adhere to any relevant legal, regulatory, industry or technical standards in completing the works (including environmental planning requirements where relevant).

Monitoring and recording conditions:

- The results of any monitoring required to be conducted for compliance with this approval must be recorded and retained as set out in this condition.
 - (a) in a legible form
 - (b) produced in a legible form to any authorised DCCEEW officer who asks to see them.
- The following records must be kept in respect of any samples required to be collected for the purposes of this approval:
 - (a) the date(s) on which the sample was taken
 - (b) the time(s) at which the sample was collected
 - (c) the point at which the sample was taken
 - (d) the name of the person who collected the sample.
- A laboratory accredited for the specified tests by an independent body acceptable to NSW Health, such as the National Association of Testing Authorities (NATA) or equivalent, shall carry out all analyses.
- Records to be kept for at least 4 years after the monitoring
- For each person specified in Table 1, the approval holder must monitor the volume of recycled water supplied to the person.

Reporting conditions:

- The approval holder must complete and supply to DCCEEW monitoring results from the verification of the recycled water scheme and in-situ validation monitoring of membranes.
- The approval holder must complete and supply to DCCEEW an annual return comprising:
 - (a) a statement of compliance
 - (b) a monitoring summary
 - (c) any amendments to the documents submitted for this approval
- The annual return must be prepared to include the DCCEEW reporting data into the NSW Health Annual report and continue to provide this report on a Financial Year Basis.#
- The annual return for the reporting period must be supplied to DCCEEW in draft not later than 60 days after the end of each reporting period. A final report, incorporating any regulator comments and outstanding laboratory data, must be supplied no later than 90 days after the end of the reporting period.#
- A representative of DCCEEW may from time to time inspect the recycled water treatment works to ensure the proper safety, maintenance, and operation of the works.

General conditions:

- This approval will lapse if there is a material change in:
 - (a) the quantity of the supply
 - (b) the scale of the supply
 - (c) a treatment or non-treatment barrier.
- The Minister may suspend the approval to supply if any requirement to furnish information or documentation is not satisfied.
- Council is to undertake a review of their risk register for this scheme after 5years. This is to be based on the risk assessment process and look for improvement in the scheme operation. The review must consider:
 - (a) Compliance with approval conditions
 - (b) Customer complaints and feedback from users
 - (c) Operational issues and feedback

Special Conditions:

- Ongoing validation of the micro filtration membranes must be included into the RWMP and the Operational and Verification Monitoring Plans as per the process outlined below. A validation exercise must be commenced within 2 months of approval and completed on an annual basis.

| | |
|------------------------|---|
| Samples | 10 or more inlet and outlet paired samples for a statistically valid number of samples |
| Frequency | 1 set of paired samples per week |
| Duration | 10 + weeks |
| Total samples | 10 paired samples (20 total) |
| Sampling period | Select worst case period e.g. winter months for biological processes, post cleaning and maximum flux for membrane processes |
| Location | Upstream and downstream of the required unit process |
| Virus Surrogates | MS2 |
| Operational monitoring | Operational parameters of each critical control point and their corresponding operational targets |

| | |
|---|---|
| End uses | Reconfirm treatment LRVs with in-situ validation monitoring |
| High exposure <ul style="list-style-type: none"> - dual reticulation - fire fighting - food crops consumed raw | Annual |
| Intermediate exposure <ul style="list-style-type: none"> - unrestricted irrigation - dust suppression | Every 3 years |
| Low exposure <ul style="list-style-type: none"> - irrigation with access restrictions - non-food crops | Every 5 years |

- Council to finalise user agreements prior to supply.

- Council must ensure cross connection controls are appropriate for Ocean Club Resort and Lake Cathie Public School and are consistent with the plumbing code and the protection of public health.
- Recommendations outlined in the Final Audit Report (December 2023) are to be completed prior to supply to end users. Excepting the review of risk assessment which is detailed separately in the following condition. #
- A review of the risk assessment, including PHU and DCCEEW is to be conducted within 6 months of the approval date.
 - Ensure CCP response document is updated in line with NSW Health PHU feedback.
 - CCT review - The CCT is operated as a variable level storage. An operational review is required to confirm the adequacy and reliability of this arrangement.
- Council is to minimise unnecessary public exposure to treated effluent from open space irrigation areas.

Scope of approval

- The objectives of this approval are to:
 - require proper and efficient management of the scheme to minimise the risk to public health and environment.
 - require practical measures to be taken to control identified risks to public health and environment.
- This approval authorises the carrying out of the supply of recycled water to the persons listed in table 1. The source of recycled water is restricted to being collected from the lake Cathie/Bonny hills Sewage Treatment Plant.
- Unless otherwise further restricted by a condition of this approval the scale at which the activity is carried out must not exceed the maximum scale specified in Table 1.
- *Where maximum quantities are not nominated Council are to ensure percolation, ponding and runoff are managed appropriately, including but not limited to moisture sensors, rain sensors and flow monitoring.

- **Table 1: Approved End Uses**

| Persons | Purpose | Quantity |
|---|---|--------------------------------------|
| Customers of Port Macquarie – Hastings Council that are located within the Bonny Hills (Area 14) Dual reticulation residential area | <ul style="list-style-type: none"> • Urban Dual Reticulation • Internal use; Cold water connection to washing machine, toilet flushing. | N/A for 3 rd pipe supply. |

| | | |
|---|---|---|
| (as detailed in table 2.2 of the RWMS Version 5.0) | <ul style="list-style-type: none"> • Restricted Outdoor Use ; gardens, ornamental ponds, car/bike/ boat washing. | |
| Port Macquarie – Hastings Council and commercial customers of Port Macquarie – Hastings Council | <ul style="list-style-type: none"> • Wastewater infrastructure uses (pump stations, treatment plants, sewer lines) • Lake Cathie Sports Fields - Irrigation • Ocean Club Resort - Irrigation • Lake Cathie Public School - Irrigation • Rainbow Beach Sports Fields – Irrigation | * |

Information supplied to Department of Climate Change, Energy, the Environment and Water.

- In this notice of determination, the reference to the approved plan includes reference to:
 - D2023 266989 - Document - Recycled Water Management Plan – Bonny Hills Recycled Water System – 20230929
 - D2023 264320 – Document – PMHC RWMS_All Systems – 2023 - 20230809
 - Accompanying documents submitted in WAMS application 16561.
- Port Macquarie-Hastings Council must adhere to an approved plan that complies with the Australian Guidelines for Water Recycling except as expressly provided by a condition of this approval.

The approval operates from 1/02/2024.

Reviews/ appeals

Section 9 of the Regulatory and Assurance Framework for Local Water Utilities outlines the review process for decisions made by the delegated departmental decision maker. Should your council wish to review part or whole of this decision then make contact with the contact officer below.

The department will monitor the conditions attached to your approval.

Your contact officer for this approval is Duncan Harrison, Senior Project Officer (Regulatory Assessments), who can be contacted on email at duncan.harrison@dpie.nsw.gov.au.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Jane Shepherd', is positioned below the word 'Sincerely,'.

Jane Shepherd

Director Local Water Utilities

Department of Climate Change, Energy, the Environment and Water