

WaterNSW

Levels 12-14

169 Macquarie Street

Parramatta, NSW 2150

Approval number: 15787

Notice of determination

Section 292 approval for installation of Potassium Permanganate Dosing for the Duck Maloi Water Treatment Plant

I am writing to inform you that on the 5th day of September 2023, I, the Director Local Water Utilities, as delegate of the Minister for Lands and Water, in accordance with section 292 (1)(a)1 of the Water Management Act 2000 have granted approval for the construction of the Potassium Permanganate Dosing facilities for the Duck Maloi Water Treatment Plant. The facilities are to be installed at the Oberon Dam Pumping Station Jenolan St, Oberon NSW.

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. Some degree of variation is acceptable to ensure that the practical realities associated with design and construction are accounted for.
- 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).

The approval operates from 5th of September 2023.

Scope of approval

The approval applies the provision of a containerised potassium permanganate dosing system at the Oberon Dam Pumping station in order to dose the feed water to the Duck Maloi WTP.

The approval is contingent on the works being consistent with the documents submitted with the initial application as well as the supplementary documentation submitted in response to request for information 1. A list of the relevant documents is provided below:

- Appendix A - Works Description
- Appendix B - Preliminary Risk Assessment
- Appendix C - Early Design Works
- Appendix D - Documented Experience
- Appendix E and Attach E1 E2 E3 - Environmental Planning Assessment
- 1a C2T 5-year Review - Lithgow 2020 - relevant to Cascades
- 1b Fish River C2C Issues Register - responses incorporated
- 1c Fish River C2C Risk Assessment Minutes
- 1d CD2021 127 V1 Critical Control Points - CCP - FRWS System
- 1e D2023 43684 FR JOG Meeting Minutes 24 May 2023
- 2AIIIN_1 Duckmaloi Coagulation Trial – Task 1 – Coagulation Jar Testing Report (complete with TOC data)
- 2AIIJU_1 Duckmaloi WTP Jar Testing Investigation into Oxidation of Naturally Occurring Manganese

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- 2AIMAY_1 Duckmaloi WTP Manganese Oxidation Scoping (Conceptual) Report
 - 2b i Safety in Design Report
 - 2b ii Functional Description - Dosing Plant
 - 2b iii CHAIR Register 21.02.2023
 - 2b iv HAZOP Minutes 06.09.2022 - TRILITY edit 230317
 - 2b vi Potassium Permanganate O&M Manual Draft

The containerised dosing system shall comprise of:

- Vacuum transfer system
- Storage hopper and volumetric screw feeder system
- Potassium permanganate solution batching and storage tanks
- Batch tank mixer
- Tank level instrumentation
- Potassium permanganate solution transfer pump skid, along with provision of a cold spare transfer pump
- Potassium permanganate solution dosing skid, along with provision of a common cold spare dosing pump
- All interconnecting pipework and fittings within the package container, including valves, actuators, rotameters and calibration cylinder, etc.
- Storage for bulk chemical area
- Provision of bunding for potential chemical solution leakage, spilling and tank overflow
- Provision of safety shower and eye wash facilities, preinstalled to the container

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 Ian Burrows who can be contacted via email at ian.burrows@dpie.nsw.gov.au.

Sincerely



Jane Shepherd

Director Local Water Utilities
Department of Planning and Environment - Water