



# **ATTACHMENTS MINUTES**

**Wastewater Management Review  
Committee Meeting**

**Wednesday, 31 August 2022**



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## Wastewater Management Review Committee August 2022



# Wastewater Overflow Report

## Wastewater Overflows

- Can be split into wet weather overflows caused by Inflow and Infiltration of stormwater and groundwater to the WW network.
- Dry weather overflows caused by blockages and damage in the WW network.

Over the past three financial years these events can be categorised as follows:

- 85% were dealt with either before any discharge from the network eventuated or were contained to land (either private or public).
- 7% resulted in a discharge to the stormwater network where it was contained and did not reach a receiving environment.
- 8% resulted in discharges that potentially reached a receiving environment (waterway / harbour / ocean) and required notification.

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## Wastewater Overflow Report

- From July 2019 to June 2022 TCC notified 41 Overflows that reached or potentially reached a receiving environment.
- Across the three years numbers were stable with
  - 15 in 2019/20,
  - 12 in 2020/21 and
  - 14 in 2021/22.

Only one of these overflows appeared to be due to a wet weather capacity issue.

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## Wastewater Overflow Report

### Overflow Management Best Practice Guidelines.....(see attachment 1 in overflow agenda)

- Created in conjunction with BoPRC, Toi Te Ora and six TA's in the BoPRC region
  - Provides a standardised framework for responding to wastewater overflows by network operators across the region
  - TCC's maintenance contractor aims to be onsite within 60 mins.
  - Initial focus is on containing and stopping the discharge
  - Notification initiated if potential for discharge to receiving environment
  - Follow up will include water sampling and investigations into why the overflow occurred
  - Incident report is provided to BoPRC on completion of follow up work.
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- This guide does not cover consented overflow's from the treatment plants for example during extreme weather events.

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# Wastewater Overflow Report

## Preventative Maintenance

- TCC contractors undertake scheduled maintenance where previous blockages have occurred
- TCC contractors undertakes CCTV of the wastewater network to identify locations where maintenance is required.
- In 2021 TCC trialled a rapid assessment tool that provides highly portable rapid onsite assessment enabling CCTV resources to be used more effectively.
- TCC plan to use this tool over the next 3 years to double the amount of network being assessed each year.



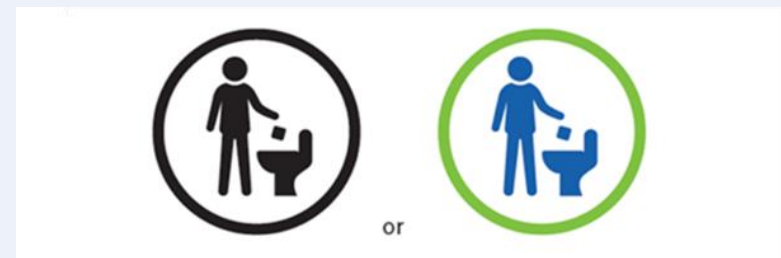
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# Wastewater Overflow Report

## Wastewater Education

- Waterline school programme includes wastewater module.
- When blockages occur due to wipes, fats and grease the catchment is identified by staff and a mail drop is carried out to inform residents not to flush these wastes.
- “Save our Pipes from Wipes” campaign – A noticeable reduction in the number of blockages caused by wet wipes was achieved during the launch of this campaign. Since then, numbers have been relatively constant.
- Flushability Standard – voluntary standard regulated by Commerce commission
- Trade Waste monitored through consents.



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# Wastewater Overflow Report

## Inflow & Infiltration Strategy (I&I)

- I&I can be difficult to measure and requires extensive data collection and resources.
- Can be different depending on the catchment and change over time as the asset ages
- Understanding levels of I&I enables council to assess system capacity, make investment decisions, and manage wet weather overflows.
- TCC has developed a strategic wastewater network model (SWNM).
- The model shows low I&I into the wastewater network and so the focus will be on maintaining this.
- Council has commissioned a draft I&I strategy, this will document current and future work needed to manage I&I within Tauranga's wastewater network.



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# Wastewater Overflow Report

## Long Term Plan Capital Works & Network Model

- For the 2021- 2031 LTP a static hydraulic model for the network was developed to identify potential capacity constraints in the network (i.e., where we could expect to see wet weather overflows).
- Projects underway include Opal Drive Rising Main upgrade and Pump Station upgrade
- For the 2024-2034 LTP the model will be dynamic allowing a range of scenarios to be tested and will consider the hydraulic constraints of the wastewater treatment plants in any optioneering and prioritisation of improvement works.

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# Wastewater Activities Report

## Wastewater Programme Business Case

The next steps for the PBC include:

- Recommence formal PBC workshops with the Project Team to confirm:
- Refinements made by Tangata Whenua representatives Key Service Requirements
- Assessment Criteria: against which long list programme options will be evaluated.
- Long list of options: that can deliver the investment objectives
- Long list assessment: of options against criteria
- A short list of options: for further analysis.

Stakeholder Engagement:

- Development of engagement plan to support PBC

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# Wastewater Activities Report

## • Te Maunga Upgrades

### **Bioreactor Two**

- Ground improvements trials are ongoing and anticipated to be completed by March 2023.
- Precast works expected to be completed by November 2022.
- Scheduled completion date for Bioreactor 2 is December 2023.

### **Landward Outfall**

- All 1200mm Ø pipe installed, pipeline expected to be operational October 2022.
- Options for relining the 450m landward outfall are progressing.
- Council have received a CIA from Nga Pōtiki a Tamapahore Trust for one of the proposed options.

### **Clarifier Three**

- Piling trials due to start
- Preliminary design on track to be completed September 2022
- Construction of the foundation slabs commencing April 2023, above ground works commence thereafter

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## Wastewater Activities Report

- **Desludging Pond 1**
  - Site established
  - Desludging to begin September 2022



- Increased monitoring of seepages for the duration of the project

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# Wastewater Activities Report

## Opal Drive Pumpstation Upgrade

- Key pumpstation as it pumps majority of waste from from eastern, central Papamoa and the Wairakei Urban Growth Area
- Housing has been removed from Site B. Site A will remain for at least 5 years.
- Preliminary design complete



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## Wastewater Activities Report



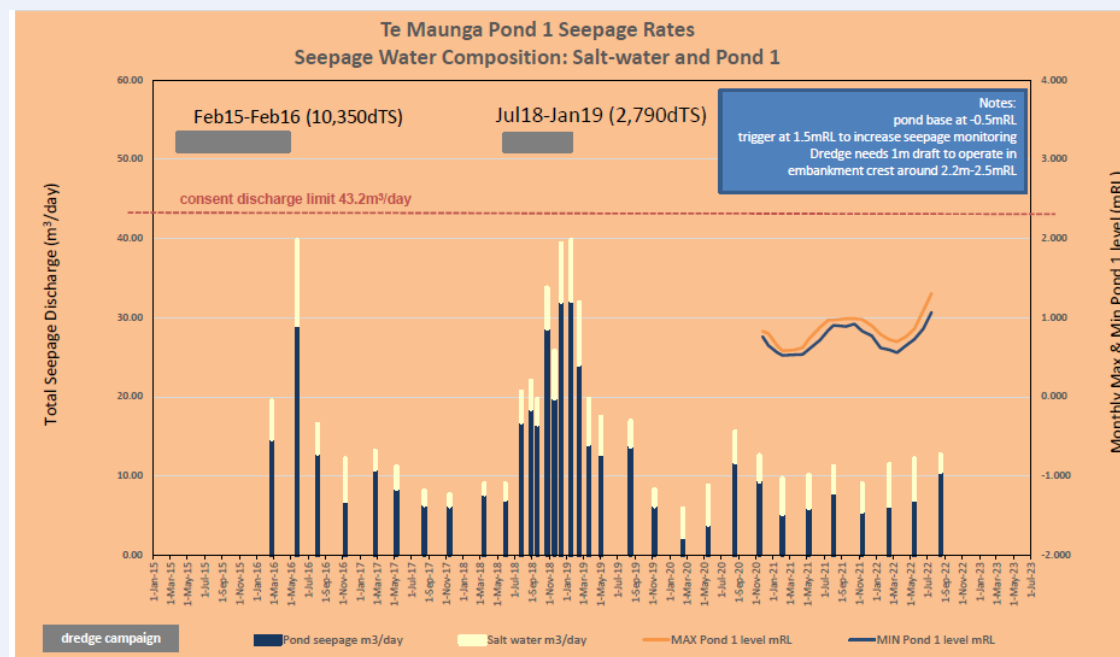
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# Wastewater Activities Report

## • Consent Monitoring

- Monitoring results are within consent requirements.
- Increase in seepage rates due to higher levels in Pond 1 from rainfall
- No odour complaints for Chapel Street or Te Maunga WWTP.



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## Environmental Mitigation & Enhancement Fund

- WWMRC appointed two representatives to the appointment panel in June 2022
- Next steps are to advertise an expressions of interest that will review applications to the fund.
- Aim to have the panel to be in place before the end of 2022 for applications to open in early 2023.

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