



Seaview WWTP – Petone Community Board Meeting

15 April 2024



Our water, our future.



Our commitment



The Council, Wellington Water and Veolia are currently working on several interventions both short and medium-term to effectively manage operations of the treatment plant especially the odour generated from the site.

Seaview WWTP Overview



- 1. Return Activated Sludge (RAS) Pump Station
- 2. Storm Tank
- 3. Biofilter
- 4. Dissolved Air Flotation Tanks
- 5. Centrifuge Room
- 6. Dryer Building



- 7. Clarifier
- 8. Aeration Tanks
- 9. Primary Sedimentation Tanks
- 10. UV System
- 11. Milliscreen and Effluent Pump Station Building
- 12. Trade waste Pump Station

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Seaview WWTP Odour Treatment Project Update

Odour Treatment Project



Project scope requires two key outcomes:

- 1. Ensure compliance with existing resource consent**
- 2. Ensure a safe environment for operators**

What we've been doing



- Operational improvements
 - Ongoing use of deodorisers to temporarily mitigate odours
 - Review of the operational practices to mitigate odour
- Confirming/clarifying what's causing the odour issues:
 - Drawing together existing information from previous reports
 - On site investigations
 - Odour scouting in the community – 222+ surveys undertaken this year by WWL and the project team
- Planning to tackle the issues:
 - Engaged specialist consultants
 - Develop a project management plan

Odour scouting

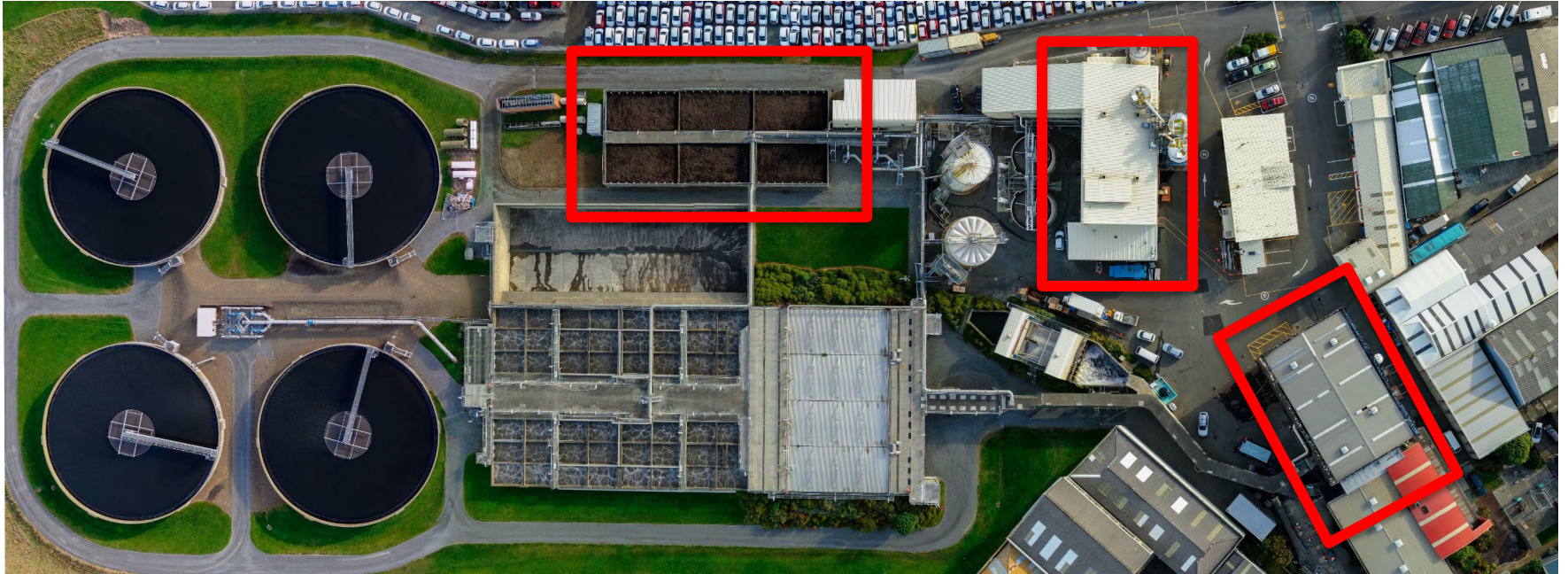
Odour intensity Plot showing all odour observations (January to March)

- No detectable odour
- Very Weak
- Weak
- Moderate
- Strong
- Very Strong
- Extremely Strong

Surveys are undertaken at different times, days and weather conditions

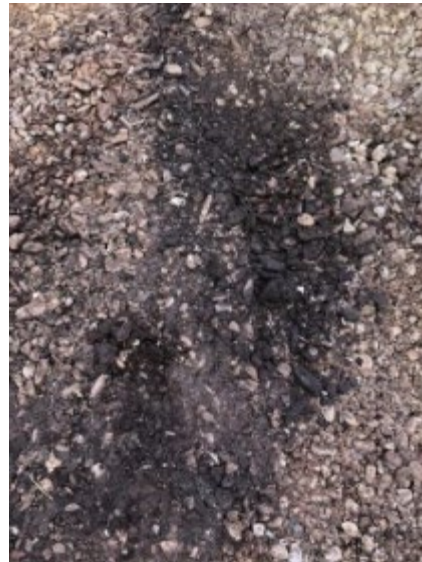


Where has odour been coming from?



Biofilter upgrades

During the media replacement we found the “Plenum” or air distribution space in the biofilter is in a poor state of repair.



Milliscreen Building



- Ducting replacement
- Extraction fan replacement
- Dedicated building odour treatment



The Dryer

Building:

We will create a negative pressure and install treatment (e.g. carbon filters).



Dryer:

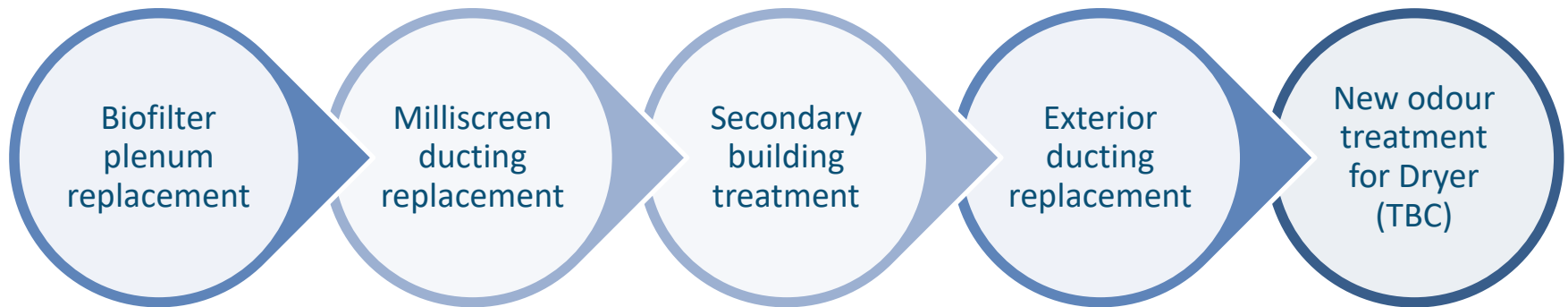
We are investigating de-coupling this from the biofilter and installing a new dedicated odour treatment.



When will this happen?



We're starting with the Biofilter Plenum replacement, this will be completed over winter.



Long Term Investment Plan



Project	Indicative Timeline (subject to funding approval)	Total Projected Cost
Seaview Odour Treatment Project	Concept Phase – FY2023-2024 Design and Construction Phase: FY 2024 – 2026	\$13M
Seaview WWTP Sludge Dryer Replacement	FY2023 – 2028	\$85.5M
Other specific WWTP Projects	FY2024 – 2034	\$61.2M
Planned and Reactive Renewals – ongoing projects	Annually	FY 2024 – 29: \$2.62M FY 2029 – 34 : \$1.5M

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Main Outfall Pipeline Renewal

Renewing the pipeline to the Pencarrow Outfall is being considered. Alternatives to the outfall will also be considered. Outcome is safe and appropriate disposal of treated wastewater from the Hutt Valley.

- Initial concept work on alignment has identified three options for renewal
- Comparative estimates in 2022 ranged between \$546M and \$658M at Level 1 estimate
- Temporary outfalls are required for any work on the existing alignment
- Existing route is vulnerable to erosion
- Harbour pipeline is current preference
- Capacity would be increased
- Alternatives will need to be considered
- Further investigation needed



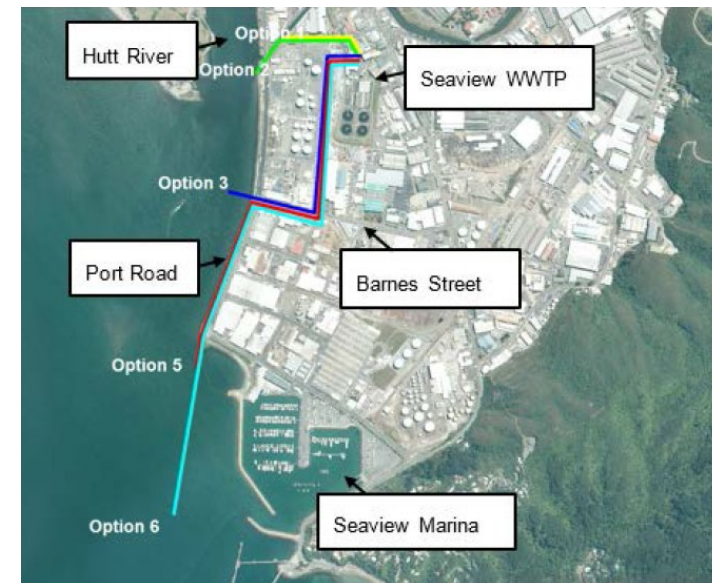
Main Outfall Pipeline Renewal



Waiwhetū Overflow Consent Renewal

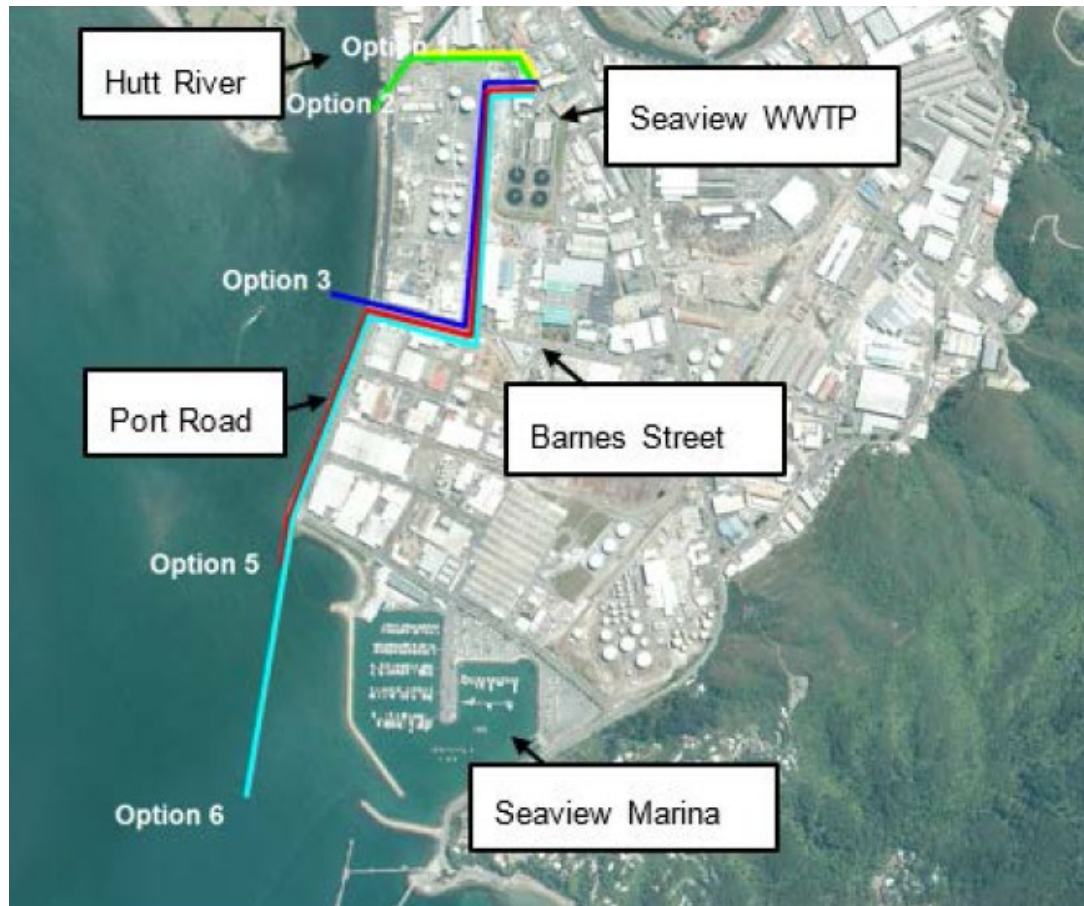
The Waiwhetū overflow pipe is used when the Main Outfall Pipeline capacity is reached and when the MOP is off-line for joint repairs or maintenance. Reducing network overflows and population growth may send even more flow to Seaview.

- A consent application for Option 2 was lodged in 2017
- Updated growth flow projections mean that application is on hold while options are reconsidered
- 2017 proposal to extend the Waiwhetu overflow and build 10ML storage now estimated to cost around \$40M
- Mana whenua have advised that removal of current discharges from Waiwhetū Stream is expected
- Replacing the MOP with larger pipeline would achieve this
- Other alternatives need to be worked through
- This needs to be considered alongside the wider issue of network overflows



Options assessed in 2016, existing overflow in yellow

Waiwhetū Overflow Consent Renewal



Options assessed in 2016, existing overflow in yellow



Questions from the Community

- Questions can also be sent to community@wellingtonwater.co.nz
- Signup sheet is available for those who would like to be part of the Seaview WWTP Interested parties list.



Thank You



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