



Seaview WWTP Community Liaison Group Meeting

28 March 2023



Our water, our future.

Items	Who	Timeframe
Meeting Opening	Andrew Freeman - Facilitator	5:30 – 5:33 pm
Opening Karakia	Andrew Freeman	5:33 – 5:35 pm
Presenter Introductions	Andrew Freeman	5:35 – 5:40 pm
Odour Treatment project update	Jeremy McKibbin - Group Manager NMG, WWL Linda Fairbrother, Project Director, NDD , WWL	5:40 – 6:20 pm
Questions from the Community regarding Treatment Plant Odour Control	All	6:20 – 6:35 pm
Wellington Water WWTP Compliance and Performance Update	Joemar Cacnio - NMG Senior Advisor, WWL	6:35 – 6:50 pm
Commentary from GWRC	GWRC Representative	6:50 – 7:00 pm
Capital Projects Update	Steve Hutchison - Chief Advisor, Wastewater, WWL	7:00 – 7:10 pm
Questions and Feedback on Seaview WWTP Performance and Projects	All	7:10 – 7:20 pm
Closing Remarks	Jeremy McKibbin - Group Manager NMG, WWL	7:20 – 7:25 pm
Closing Karakia	Jeremy McKibbin - Group Manager NMG, WWL	7:25 – 7:30 pm

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

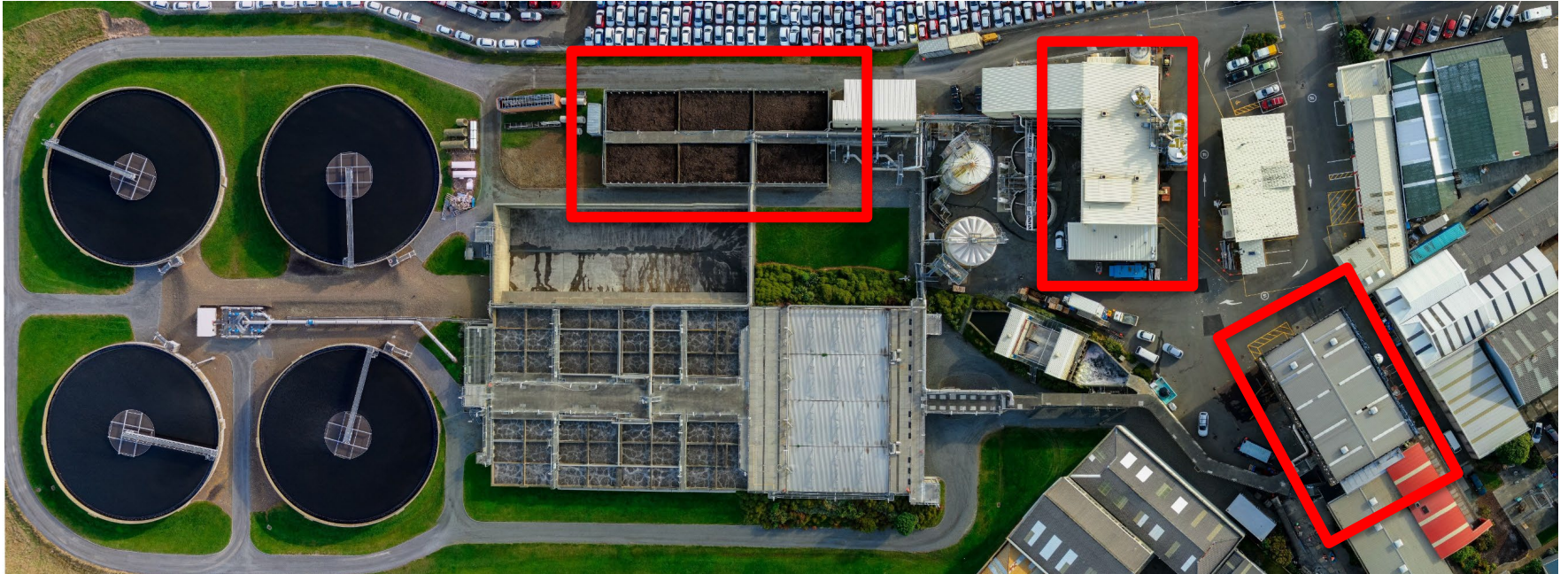
Odour intensity Plot showing all odour observations (January to March)

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

Surveys are undertaken at different times, days and weather conditions



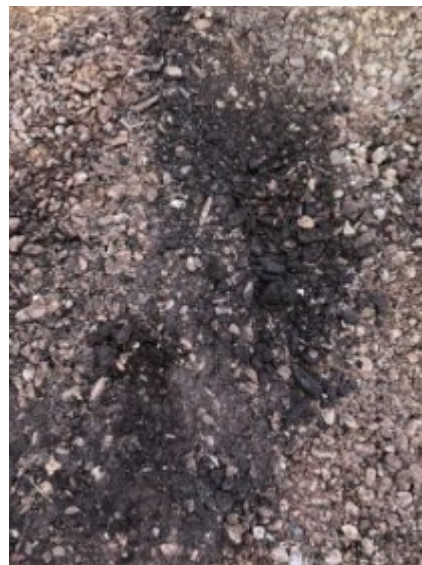
Where has odour been coming from?



Biofilter upgrades



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



The Dryer

Building:

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



Dryer:

We are investigating decoupling this from the biofilter and installing a new dedicated odour treatment.



Across the site



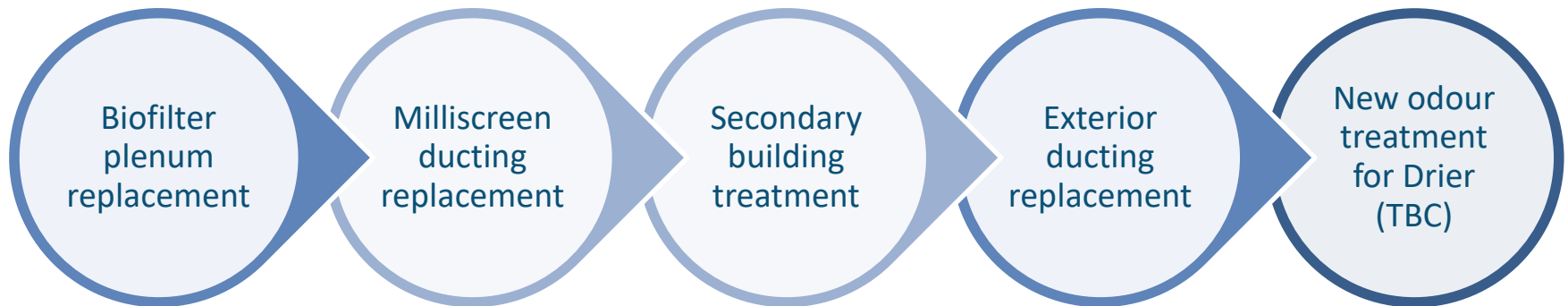
- Ducting replacement
- Extraction fan replacement
- Dedicated building odour treatment



When will this happen?



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



Keeping You Informed



What	When	how
Email notifications	As things happen	Sent to interested parties list, sign up via customer.notifications@wellingtonwater.co.nz or here Posted on Facebook (Wellington Water page) and/or Seaview WWTP webpage (https://www.wellingtonwater.co.nz/resources/topic/wastewater/wastewater-treatment-plants/seaview-wastewater-treatment-plant/)
Regular 'newsletter style' update	Monthly, starting next week	Sent to interested parties list Posted on website with link on social media Will link to project updates and reporting on website
Face to face meetings	When there are significant updates to discuss	Invitation via interested parties list and Facebook. Next meeting likely mid-year
Dedicated Query Inbox	Queries related to WWTP	Send email to community@wellingtonwater.co.nz



Questions from the Community



Seaview WWTP Performance and Compliance Update

Plant Performance July 2022 – June 2023



- Non-compliance with treated wastewater discharge quality due to effluent faecal coliform non-compliance. Effluent BOD and suspended solids remains complaint. (Stated in Condition 9 of WGN050359[24539]).
- Average daily flow was 63,415 m³ /day with peak daily flow recorded was 124,176 m³
- There were 19 consented discharges due to wet weather, 2 discharges related to outfall maintenance and 5 unconsented dry weather discharges. The discharge location is to the Waiwhetu Stream.
- 24 odour complaints received by Wellington Water during this reporting period.

Plant Performance July 2023

– Feb 2024



- Non-compliance with treated wastewater discharge quality due to effluent faecal coliform non-compliance. Effluent BOD and suspended solids remains complaint. (Stated in Condition 9 of WGN050359[24539]).
- Average daily flow was 54,072 m³ /day with peak daily flow recorded was 103,401 m³ into the WWTP.
- There were eight consented discharges due to wet weather to the Waiwhetu Stream and one unconsented discharge to the Pencarrow outfall due to undisinfected wastewater due to power outage.
- 153 odour complaints received for this reporting period



GWRC Rating

Consent Compliance Rating FY22/23



Regional Council has issued the following compliance rating for the plants' resource consents :

- WGN120142 [31740]: Temporary Channel Construction to CMA (Maintenance) and WGN120142[33406]: Discharge to CMA during outfall repairs
- Full Compliance Rating
- WGN120142[33408]: : Discharge to Waiwhetu stream during outfall repairs
- Low Risk Non – compliance rating
- WGN050359 [24539]: Discharge of Treated Wastewater to CMA; WGN950162 (01) : Discharge of Odour from WWTP and WGN120142[33406]: Discharge of Treated Wastewater to stream during wet weather
- Significant Non-compliance Rating

The overall compliance summary rating for the site in FY2022/23 was “Poor”



Wider Treatment Plant Projects Update

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.

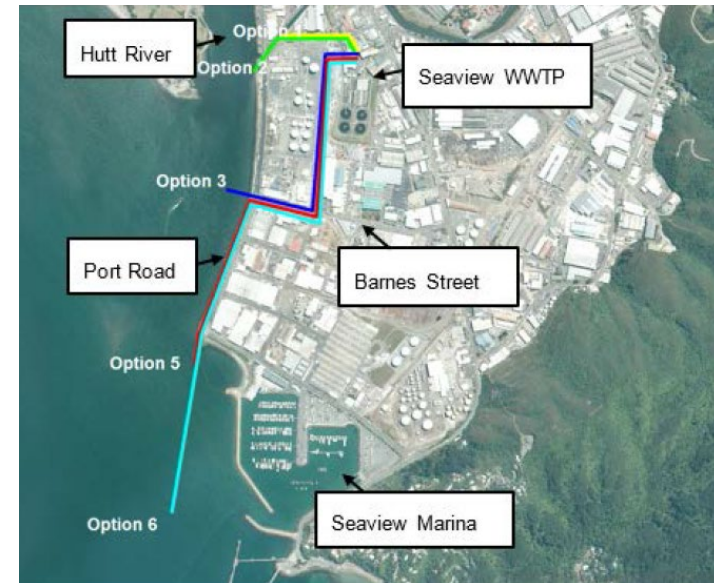
- Initial concept work on alignment has identified three options for renewal
- Comparative estimates in 2022 ranged between \$546M and \$658M at Level 1 estimate
- Temporary outfalls are required for any work on the existing alignment
- Existing route is vulnerable to erosion
- Harbour pipeline is current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



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



Questions from the Community



Questions from the Community

If you have any unanswered



Closing Remarks and Closing Karakia



Thank You



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