

## Regional Wastewater Services MEETING MINUTES

Date:	<b>13 December 2023</b>
Subject:	<b>Community Liaison Group meeting – Porirua Wastewater Treatment Plant</b>
Time:	17:30pm
Location:	Te Rauparaha Arena, Meeting room 1
Attendees:	<b>Facilitator</b> – Andrew Freeman <b>GWRC</b> – Amanda O’Brien <b>Veolia</b> - Alex Phelan, Nico Robins <b>WWL</b> - Jeremy McKibbin, Blair Johnson, Joemar Cacnio, Janice Rodenburg, Craig Shuttleworth (Mins) <b>RPH</b> – Mike Fisher <b>Community members and Councillors</b> – Jim Mikoz, Marie Wright, Dan Albert, Michelle Warshawesky, Jenny Jakobs
Apologies:	Graeme Ebbett, Rachael Allen (WCC)

Welcome & Introduction by WWL	Action	Due
<p>Andrew opened with a Karakia welcoming everyone to the meeting advising Health and Safety instructions and emergency evacuation procedures.</p> <p>Round table introductions were conducted by all attendees.</p> <p>Before introducing Joemar to start with his presentation Andrew reminded attendees of the importance of respect and read out the agenda advising that questions would be answered in the later stages of the meeting.</p>		
Plant performance/compliance presentation FY2022/23	Action	Due
<p>Joemar began with a PowerPoint presentation detailing the wastewater treatment process of the Porirua WWTP and the compliance performance. Joemar also detailed some discharges that had occurred in both 22/23 and the current 23/24 year to present and updated on the status of various upgrade projects currently being undertaken at the plant.</p> <p>The presentation continued advising the attendees of the plant’s ‘Fair’ rated performance in relation to the resource consents for the financial year ending 30 June 2023.</p>		
GWRC commentary/feedback	Action	Due
<p>Andrew thanked Joemar for the opening segment and invited Amanda up to offer some thoughts from regional councils’ perspective.</p> <p>Amanda explained to the attendees how the regional council had come to the decision to grant the plant’s compliance rating as ‘Fair’ noting they had given the Effluent consent a ‘significant non-compliance rating’ and that infringements and formal warnings had been issued but the score takes into all consents combined so this balances the good/bad.</p> <p>The new consent performance was acknowledged which came into effect mid-July with Amanda noting a formal warning being issued for missed sampling in the first month due to a communication error and there were ongoing investigations into some recent discharges but no action had been made on these yet. Amanda noted good notifications and communications from</p>		

WWL during this process and advised that the plant is fully compliant currently with the new air discharge consent.		
<b>New consent update/presentation FY2023/24</b>	<b>Action</b>	<b>Due</b>
Joemar continued the second half of the presentation citing the deliverables that had been achieved under the new consent and the items that were still in progress but on target.		
<b>Questions/Feedback from the Community</b>	<b>Action</b>	<b>Due</b>
<p>Andrew invited members of the community to come forward with any questions they may have about the presentation or the plant itself. The following matters were raised:</p> <ul style="list-style-type: none"> <li>• Generator procurement for the UV System and its delay – funding on way in 2024 and it will be future-proofed to cope with forecasted demand.</li> <li>• Outfall structure, why is it fully compliant rated if elbow is broken? – Based on dispersion modelling reports the replacement is not needed currently - <b><u>ACTION – WWL to provide reports/plans/pictures to Jim Mikoz</u></b></li> <li>• UV performance issues – sole focus is compliance and fixing the mechanical issues, when this is sorted the plant may be able to be scored “Good/Very Good”. Both UV systems operational in heavy rain events</li> <li>• Alarm/Pager system issues – current pager system is through the cellular network, using Moa Point connection currently but work being done to change to Seaview as this is expected to be more reliable.</li> <li>• Blower performance and are they adequate size? – Blowers were replaced in 2019, they are adequate size for the plant operating on duty/duty/standby.</li> <li>• Solids disposal currently – Disposed at Spicer landfill, no plans to build a SMF at this stage due to huge funding requirements.</li> <li>• Population growth, can it cope? – Modelling team within WWL say the plant can cope till 2048, there is also space for a 4<sup>th</sup> clarifier, should the plant need it.</li> <li>• Concern was raised regarding the microbial sampling guidelines with the new consent – WWL understands the concern raised by the community but is required to meet the exact conditions as set out in the consent and must continue to do so.</li> <li>• Beach signs/LAWA updates not correlating – Signs are shared with the network for overflows, relies on manual intervention. Agreement that it is a complex issue but consistency between LAWA and signs/messaging is key. <b><u>ACTION – WWL to look at the current notification procedure around signs to see if it can be improved.</u></b></li> <li>• Compliments and thanks were passed form the community members for the hard work operating the plant also the notifications, transparency around discharges and the recent website being a step in the right direction.</li> </ul>	WWL	Feb 24
	WWL	Feb 24
<b>Closing comments</b>	<b>Action</b>	<b>Due</b>
<p>Blair thanked all for attending and expressed the importance of being open to the community and the CLG meeting being the right platform to have these discussions.</p> <p>Jeremy also thanked the community for their input and attendance adding these meetings help drive change/funding so that WWL as operators can carry out the upgrades once funding is approved by local councils.</p> <p>Andrew closed the meeting with a Karakia.</p>		
<p>Attachments: Wellington Water Presentation</p>		
<b>MEETING CLOSED 18:55pm</b>		

# Porirua WWTP Community Liaison Group Meeting

13 December 2023



Our water, our future.

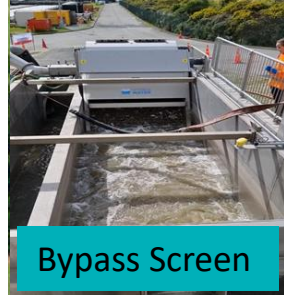
# Meeting Agenda



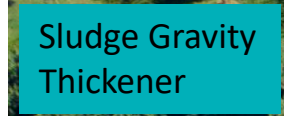
Items	Who	Timeframe
Opening Karakia	Andrew Freeman - Facilitator	5:30 – 5:35 pm
Meeting Opening and H&S Announcement	Andrew Freeman - Facilitator	5:35 – 5:40 pm
Presenter Introductions	Andrew Freeman - Facilitator	5:40 – 5:45 pm
Wellington Water WWTP Compliance and Performance Update	Joemar Cacnio – Senior Advisor, WWTP Contracts	5:45 – 6:10 pm
Commentary from GWRC	Amanda O’Brien– Compliance Officer, GWRC	6:10 – 6:15 pm
New Consent Implementation Update	Joemar Cacnio	6:15 – 6:25 pm
Questions and Feedback	All	6:25 – 6:50 pm
Closing Remarks	Blair Johnson Head of Wastewater Contracts	6:50 – 6:55 pm
Closing Karakia	Andrew Freeman - Facilitator	6:55 – 7:00 pm

**Our water, our future.**

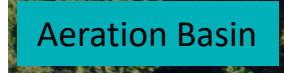




Bypass Screen



Sludge Gravity Thickener



Aeration Basin



Milliscreens



Centrifuges

Clarifier 1



Clarifier 2



Waste Activated Sludge (WAS) Pump Station



Return Activated Sludge (RAS) Pump Station



UV Treatment Building



Clarifier 3





# Plant Performance July 2022 – June 2023



- Full compliance with treated wastewater discharge quality [stated in Condition 11]
- Average daily flow was 29,617 m<sup>3</sup> /day with peak daily flow recorded was 95,608 m<sup>3</sup> which exceeded the consent limits.
- There were six consented and seven unconsented discharge events
- No odour beyond the boundary assessed as 'offensive and objectionable'.
- One odour complaint received during this reporting period.

# Discharge records July 2022 – June 2023

Date (dd/mm/yy)	Duration (hrs:mins)	Total Volume of Partially Treated Discharge (m <sup>3</sup> )	Cause
08/07/2022	4:56	2931	Heavy rainfall – prior to completion of hydraulic upgrade works
12/07/2022	13:29	7105	Heavy rainfall – prior to completion of hydraulic upgrade works
19/07/2022	21:01	9423	Heavy rainfall – prior to completion of hydraulic upgrade works
31/07/2022	9:37	5337	Heavy rainfall – prior to completion of hydraulic upgrade works
08/08/2022	8:17:00	3771	Heavy rainfall – prior to completion of hydraulic upgrade works
18/08/2022	69:22:00	42525	Heavy rainfall – prior to completion of hydraulic upgrade works
27/10/2022	5:21	2,328	A power spike caused a shutdown of most of the equipment at the Porirua WWTP, including the SCADA, Pager alarm, and UV systems.
17/11/2022	00:43	142	Failure in the level transmitter in the Duron UV Unit.
15/03/2023	00:06	16	Mechanical and hydraulic issues in Duron UV Unit
21/03/2023	03:10	48	Mechanical and hydraulic issues in Duron UV Unit
28/03/2023	01:24	3265	Mechanical and hydraulic issues in Duron UV Unit
19/04/2023	8:57	28599	Mechanical and hydraulic issues in Duron UV Unit
4/05/2023	7:20	15840	Mechanical and hydraulic issues in Duron UV Unit

# Discharge records July 2023 - Present



Date (dd/mm/yy)	Duration (hrs:mins)	Total Volume of Partially Treated Discharge (m <sup>3</sup> )	Cause
1/08/2023	00hr 05m	10	Planned maintenance repair of the UV bypass penstock
27/09/2023	08hr 24m	10,765	Power fluctuation on the site which faulted the UV, alarm pager failed and site unaware of outage
3/10/2023	7hr 30m	85 max.	Mechanical failure caused the screenings wash water to overflow into the site stormwater which was UV treated before discharge. The initial discharge report was downgraded when it was confirmed that the wash water was UV treated.
9/11/2023	00hr 30m	695	Power Outage – UV system does not have backup power supply
8/12/2023	01hr 22m	864	Power Outage – UV system does not have backup power supply



# Leak Streams in the UV System



# Project updates



# Project Update: Aeration Manifold Renewal



Project objective

Replace corroded aeration pipes - which convey air from the blowers to the aeration basin

Current status

Complete



Our water, our future.



# Project update: Interim Odour Control Measures



Project objective

To install continuous H<sub>2</sub>S monitors and a weather station to control the operation of the inlet tunnel vent fan

Current status

Complete



Installed H<sub>2</sub>S monitors in the inlet tunnel vent and milliscreen building air discharge stack

# Project update: Solids Handling

Project objective

Increase the solids handling capacity of the plant in line with the projected population growth through to 2048

Current status

Under project design phase



Proposed  
location of the  
sludge handling  
upgrade

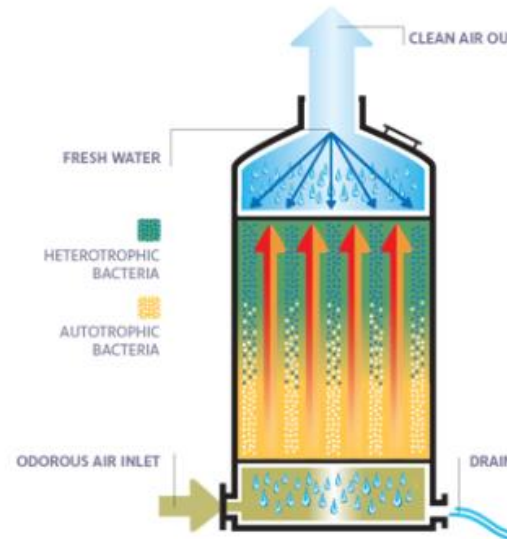
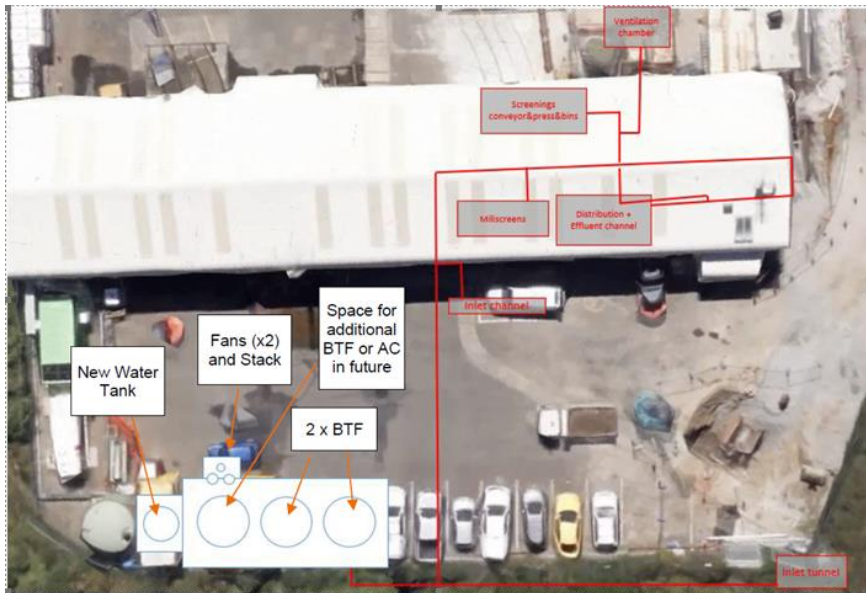
# Project Update: Odour Control

Project objective

To provide a reliable odour control system for the site

Current status

Best Practicable Option (BPO) assessment for the site's odour control system has been completed. Project is forecasted to be completed by October 2025 subject to council funding



Proposed location of odour control unit and a schematic diagram of how a biotrickling filter works



# Project Update: UV Power Supply



Project objective

To provide a backup power supply for the UV system and local critical assets that are not connected to the existing standby generator.

Current status

Planning phase.



Proposed locations for the Porirua UV backup power supply. Option 2 was the preferred location

Regional Council have issued the following compliance rating for the plant's resource consents :

- WGN980083[33805]: To discharge treated effluent from the Porirua City Council's Wastewater Treatment Plant. – Significant non-compliance rating
- WGN980083[1536]: To discharge contaminants to air from the Porirua City Council's Wastewater Treatment Plant. – Full compliance rating
- WGN980083[496]: To occupy and use the coastal marine area with a concrete deflection wall and outfall structures. – Full Compliance rating

The overall compliance summary rating for the site in FY2022/23 is "Fair"

# Commentary from GWRC



# New Consent Implementation



Notable Deliverables Under the New Consent	Status
Elimination of discharges that result from inflow to the plant exceeding its capacity	Completed
New Sampling Regime Implementation	Completed
UV Power Output set at 98% power output for at least 95% of the time	Completed
Implementation of Interim Odour Control Measures	Completed
Updating of WWTP Management Plans	In Progress. Odour management plan is being updated based on GWRC feedback. Awaiting for additional feedback regarding the other sections of the plan
Establishment of WWTP Working Group	In-Progress. Confirmed representatives from Te Rūnanga o Toa Rangatira, PCC and WWL
Odour Control System	In progress. BPO assessment done.

# Questions and Feedback

## Update information and contact details

If you would like to receive regular updates on Porirua WWTP, please email [customer.notifications@wellingtonwater.co.nz](mailto:customer.notifications@wellingtonwater.co.nz) and we will put you on the interested parties list.

We have a dedicated website page with regular updates for the site:  
<https://www.wellingtonwater.co.nz/resources/topic/wastewater/wastewater-treatment-plants/porirua-wastewater-treatment-plant/>





Thank You