Wellington Water

# Seaview Wastewater Treatment Plant

## Annual Resource Consents Report 2024/2025

Our water, our future.

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# Control Sheet

**Document Title**: Seaview Wastewater Treatment Plant Annual Resource Consents Report 2024/25

**Prepared by:** Craig Shuttleworth

**Reviewed by:** Amy Smith

**Approved by:** Blair Johnson

## Document Control Register

| Version | Status | Date | Details of Revision |
|---|---|---|---|
| 0 | Draft | 30/07/25 | Initial draft for review |
| 1 | Final | 31/7/2025 | Approved, Head of Wastewater Contracts |
| | | | |

# Executive Summary

This report has been prepared on behalf of the Hutt City Council (HCC) for compliance with several resource consents. The resource consents are as follows:

WGN050359 [24539]
Discharge of Treated Wastewater to the Coast Marine Environment

WGN 120142 [33406]
Discharge of Treated Wastewater to Freshwater (Wet Weather)

WGN 120142 [33407]
Discharge of Treated Wastewater to the Coastal Marine Environment (Maintenance)

WGN 120142 [33408]
Discharge of Treated Wastewater to the Waiwhetu Stream (MOP Maintenance)

WGN 120142 [31740]
Discharge of Treated Wastewater to the CMA across Foreshore (temporary)

WGN 950162 (01)
Discharge of Contaminants to Air

WGN 930193 (01)
Discharge of Contaminants to Air (Outfall)

WGN 930193 (02)
Discharge of Contaminants to Air (Venting)

WGN 930194
Land Occupation by Outfall Pipeline and Structures

This annual report will cover the period from 1 July 2024 to 30 June 2025.

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# Resource Consents

## WGN050359 [24539]

Effluent discharge from the Seaview WWTP is governed by the resource consent under the Greater Wellington Regional Council consent file number WGN050359 [24539]. In general, this coastal permit allows the discharge of treated and disinfected wastewater to the coastal marine area through an existing outfall at Bluff Point. The outfall is located at map location NZMS 260: R27; 649.808.

The following report will outline the conditions in this resource consent that are required for that annual report.

## WGN120142 [33406]

In addition to the above resource consent, the discharge from the Seaview WWTP is governed by the resource consent under the Greater Wellington Regional Council consent file number WGN120142 [33406]. This discharge permit allows the temporary discharge of treated wastewater to the Waiwhetu Stream during and/or immediately after heavy rain events when flows exceed the capacity of the main outfall pipeline and the storm tank system is fully utilized. The location of the discharge is at map reference NZTM 1759407.5433210.

The following report will outline the conditions in this resource consent that are required for that annual report.

## WGN120142 [33407]

Another resource consent that governs the discharge from the Seaview WWTP is under the Greater Wellington Regional Council consent file number WGN120142 [33407]. This discharge permit allows the temporary discharge of treated wastewater from Seaview Wastewater Treatment Plant to the coastal marine area, and onto the land where it may enter streams or coastal marine area from:

- Planned repairs
- Unplanned repairs
- Leaks associated with temporary repairs, and
- Minor leaks

in relation to the main outfall pipeline from Seaview Wastewater Treatment Plant to Pencarrow Head.

The following report will outline the conditions in this resource consent that are required for that annual report.

## WGN120142 [33408]

Another resource consent that governs the discharge from the Seaview WWTP is under the Greater Wellington Regional Council consent file number WGN120142 [33408]. This discharge permit allows the temporary discharge of treated wastewater from Seaview Wastewater Treatment Plant to the Waiwhetu Stream when the main outfall pipeline is being repaired. The location of the discharge is at map reference NZTM 1759407.5433210.

The following report will outline the conditions in this resource consent that are required for that annual report.

## WGN120142 [31740]

The coastal permit under the Greater Wellington Regional Council consent file number WGN120142 [31740] allows the construction of a temporary channel on the foreshore to direct treated wastewater discharged from the scour valves on the main outfall pipeline into the sea to allow pipeline repair to be undertaken. The locations for these discharges are between map locations NZTM 1759804.5433065 and NZTM 1754999.5420657.

The following report will outline the conditions in this resource consent that are required for that annual report.

## WGN950162 (01)

The discharge to air resource consent permits the Seaview WWTP to discharge contaminants to the air from operation. The plant can discharge up to $7m^3/s$ of combustion products and up to $53m^3/s$ of air from the facility.

The following report will outline the conditions in this resource consent that are required for that annual report.

## WGN930193 (1)

The coastal permit allows the Seaview WWTP to continuously discharge contaminants to the air from the outfall venting structures and vents. The discharge location is at map reference NZMS 260 R27:650.808.

This resource consent does not contain any conditions that require annual reporting.

## WGN930193 (2)

The coastal permit allows the Seaview WWTP to continuously discharge contaminants to the air from the sewage outfall structure and the sewage effluent. The discharge location is at map reference NZMS 260 R27:650.808.

This resource consent does not contain any conditions that require annual reporting.

## WGN930194

The coastal permit allows the HCC to occupy the foreshore and seabed of the coastal marine area for the purposes of continued use of the existing sewage pipeline and outfall structure. The location is at map reference NZMS 260 R27:650.808.

This resource consent does not contain any conditions that require annual reporting.

# WGN050359 [24539]

## Condition (2)

| |
|---|
| The rate of discharge shall not exceed:<br><br>3,100L/s or 268,000 m3/day (peak wet weather flow) |

Figure 1 below is a summary of the effluent flow for FY2024/25. The flows are below the consent limit of 268,000 cubic metres/day.

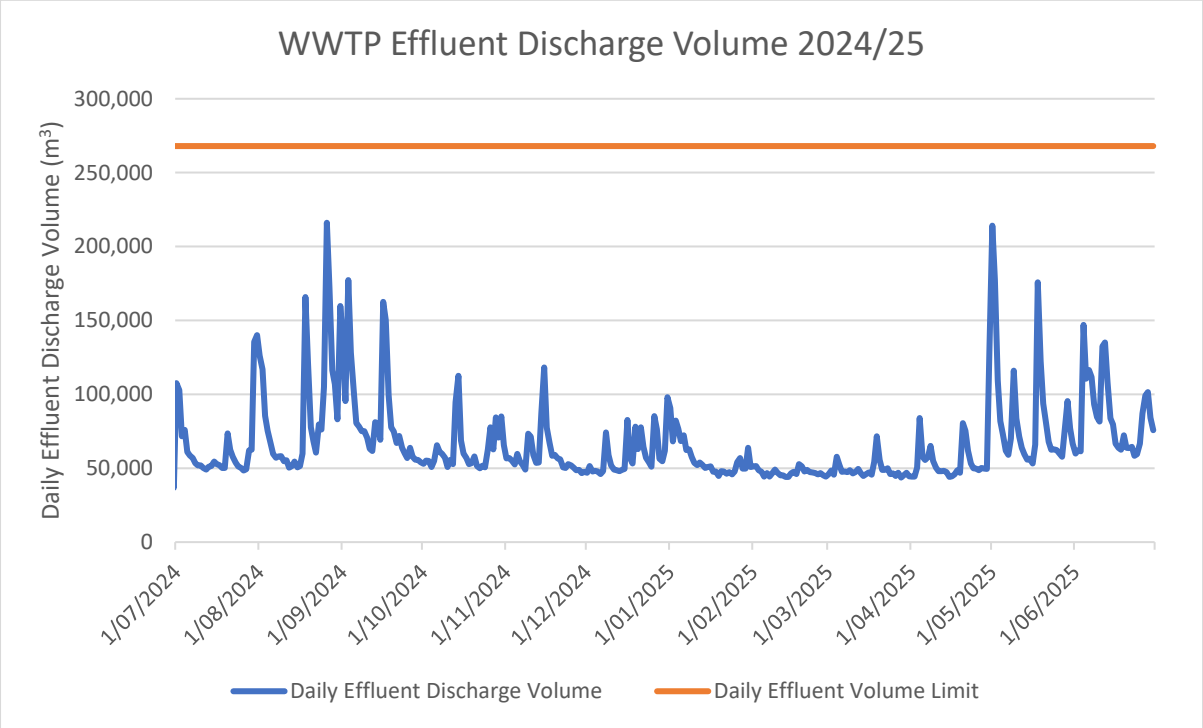



**Figure 1: WWTP Effluent Flow Summary**

# Condition (9)

The following effluent standards shall apply at all times:

Carbonaceous Biochemical Oxygen Demand (cBOD5)

Compliance is based on daily 24 hour flow proportioned composite sampling, with a running geometric mean and eighty-percentile calculated each day using 90 consecutive daily test results.

The geometric mean of 90 consecutive daily cBOD5 values shall not exceed 50g/m3 and more than 20% of 90 consecutive daily values shall exceed 85g/m3.

Suspended solids

Compliance is based on daily 24 hour flow proportioned composite sampling, with a running geometric mean and eighty-percentile calculated each day using 90 consecutive daily test results.

The geometric mean of 90 consecutive daily suspended solids values shall not exceed 50g/m3 and more than 20% of 90 consecutive daily values shall exceed 85g/m3.

Faecal Coliforms

Compliance is based on daily grab samples to be taken between the hours of 10am and 4pm with a running geometric mean and eighty percentile calculated each day using 90 consecutive daily test results.

The geometric mean of 90 consecutive daily faecal coliform values shall not exceed 1000 per 100mL and no more than 20% of 90 consecutive daily values shall exceed 5000 per 100mL.

Figure 2 below is a summary of the 90-day geometric mean and 90-day 80$^{th}$ percentile for the effluent Carbonaceous Biochemical Oxygen Demand ($cBOD_5$). The facility has been compliant to $cBOD_5$ requirements in the 2024/25 reporting period.

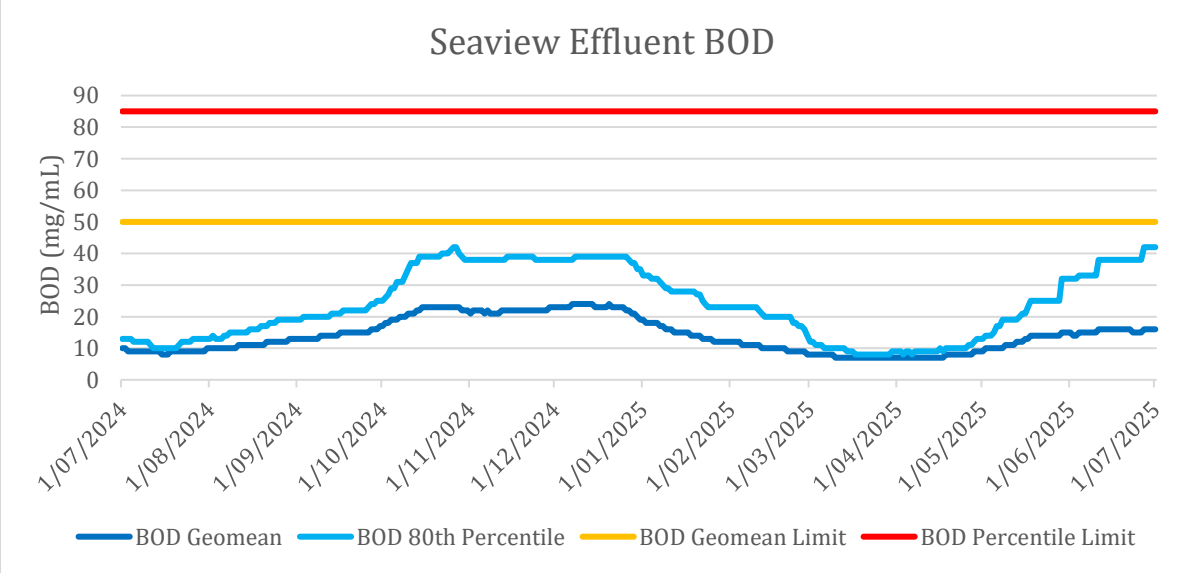



**Figure 2: Effluent $cBOD_5$ Summary**

Figure 3 below is a summary of the 90-day geometric mean and 90-day 80th percentile for the effluent total suspended solids. The plant was non-compliant for the suspended solids requirements during this consent period.

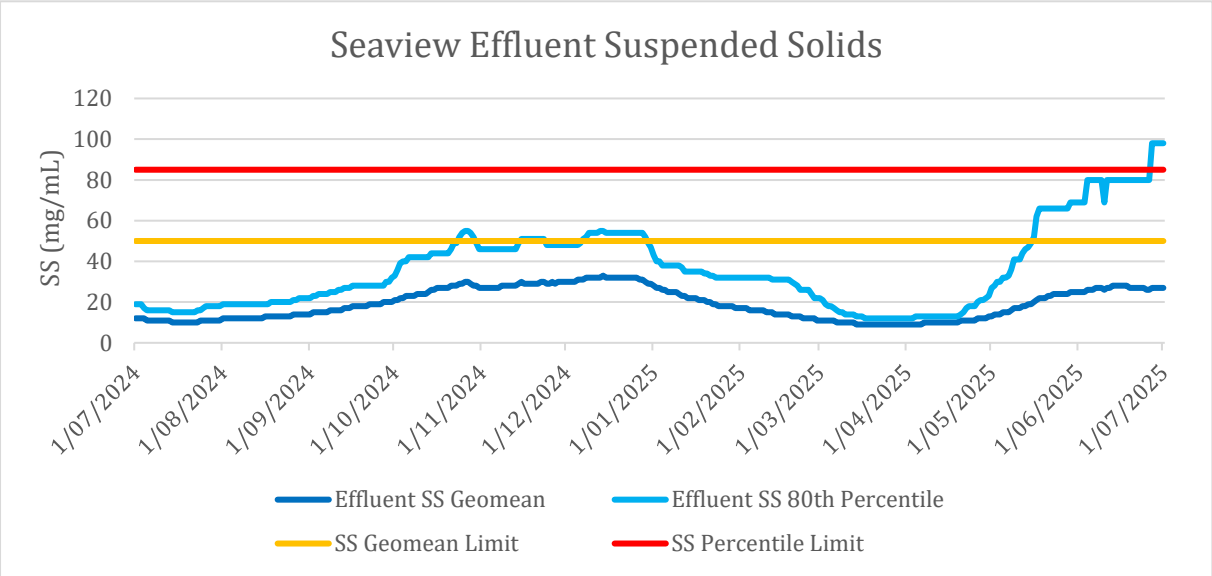



**Figure 3: Effluent TSS Summary**

Figure 4 below is a summary of the 90-day geometric mean and 90-day 80th percentile for effluent faecal coliform. The plant was non-compliant for the faecal coliform requirements during this consent period.

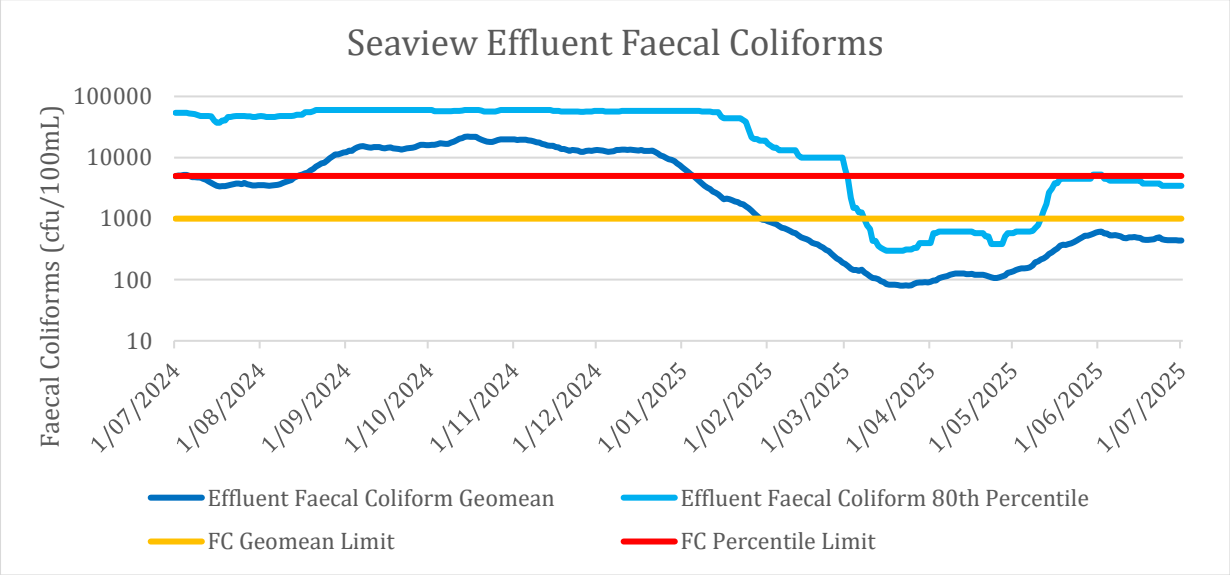



**Figure 4: Effluent Faecal Coliform Summary**

# Condition (10)

| |
|---|
| The permit holder shall notify the Manager, Environmental Regulation, Wellington Regional Council immediately in the event that a running geometric mean and/or 80 percentile calculated daily from the monitoring programme exceeds the values stipulated in condition 9 for more than three consecutive days. Such a report shall include the likely reason for exceedance, and measures to be undertaken by the permit holder to remedy the situation. The permit holder shall also immediately notify the Medical Officer of Health of any such event. |

**Effluent $cBOD_5$:**

The Effluent 90-day rolling $cBOD_5$ Geometric Mean was compliant with the compliance limit of 50 $g/m^3$ for the whole reporting period.

The Effluent 90-day rolling $cBOD_5$ $80^{th}$ percentile was compliant with the compliance limit of 85 $g/m^3$ for the whole reporting period.

**Effluent Total Suspended Solids (TSS):**

The Effluent 90-day rolling TSS Geometric Mean was compliant with the compliance limit of 50 $g/m^3$ for the whole reporting period.

The Effluent 90-day rolling TSS $80^{th}$ percentile was non-compliant with the compliance limit of 85 $g/m^3$ from $27^{th}$ June to the end of the reporting period.

**Effluent Faecal Coliform:**

The Effluent 90-day rolling Faecal Coliform Geometric Mean was non-compliant with the compliance limit of 1000 cfu/100 mL from $1^{st}$ July 2024 to $29^{th}$ January 2025.

The Effluent 90-day rolling Faecal Coliform $80^{th}$ Percentile Limit was non-compliant with the compliance limit of 5000 cfu/100 mL from:

- $1^{st}$ July 2024 to $1^{st}$ March 2025
- $30^{th}$ May 2025 to $2^{nd}$ June 2025

GWRC were notified when the geometric mean and/or $80^{th}$ percentile limits were exceeded and a joint investigation report, for the suspended solids and faecal coliforms exceedances in May/June 2025, was submitted to GWRC on 10 July 2025.

The reasons for the non-compliance can be found in Condition 18c below.

# Condition (11)

Based on 24 hour flow-proportioned composite samples collected and analyzed once each month in accordance with conditions 6, 7 and 8 and Schedule 1 of this permit, all wastewater discharged through the outfall shall meet the following standards:

| Analyte | Units | Standard:<br>Over each 12-month period, from 1 July to 30 June, no more than 2 sample results shall exceed: |
|---|---|---|
| Dissolved Arsenic | mg/L | 0.115 |
| Dissolved | mg/L | 0.035 |
| Cadmium | mg/L | 0.220 |
| Dissolved | mg/L | 0.065 |
| Chromium | mg/L | 0.350 |
| Dissolved Copper | mg/L | 0.220 |
| Dissolved Nickel | mg/L | 0.750 |
| Dissolved Lead | mg/L | 0.005 |
| Dissolved Zinc | mg/L | 0.200 |
| Dissolved Mercury | mg/L | 0.500 |
| Cyanide | | |
| Phenol | | |

Note:

1. Two exceedances out of 12 samples is permitted to meet a 95-percentile discharge compliance standard, based on a discharger's risk of no more than 10% (from 'New Zealand Municipal Wastewater Monitoring Guidelines' NZWERF/MfE 2002)

2. The treated wastewater standards above are based on the ANZECC (2000) marine water trigger levels for 'slightly to moderately disturbed ecosystems' multiplied by a factor of 50 to allow for reasonable mixing (the 50:1 dilution contour extends approximately 400 meters from the outfall).

Please see table on the next page.

Table 1 below summarises the monthly heavy metal analysis for the effluent. While there were some slight fluctuations, all parameters were below their consent limits.

| Analyte | Limit | Unit | Geomean | Min | Max | Jul-24 | Aug-24 | Sep-24 | Oct-24 | Nov-24 | Dec-24 | Jan-25 | Feb-25 | Mar-25 | Apr-25 | May-25 | Jun-25 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Arsenic | 0.115 | mg/L | 0 | 0.001 | 0.00 | 0.00100 | 0.00400 | 0.00200 | 0.00200 | 0.00200 | 0.00100 | 0.00100 | 0.00 | 0.00200 | 0.0020 | 0.0020 | 0.001 |
| Dissolved Cadmium | 0.035 | mg/L | 0.0002 | 0.0002 | 0.0002 | 0.00020 | 0.00020 | 0.00020 | 0.00020 | 0.00020 | 0.00020 | <0.0002 | <0.0002 | <0.0002 | 0.0002 | 0.0002 | 0.0002 |
| Dissolved Chromium | 0.220 | mg/L | 0.00158 | 0.001 | 0.003 | 0.00100 | 0.00200 | 0.00200 | 0.00200 | 0.00100 | 0.00100 | 0.00100 | 0.001 | 0.00200 | 0.001 | 0.003 | 0.002 |
| Dissolved Copper | 0.065 | mg/L | 0.00226 | 0.0015 | 0.0034 | 0.0028 | 0.0023 | 0.0019 | 0.0020 | 0.0023 | 0.0020 | 0.0027 | 0.0034 | 0.0015 | 0.0016 | 0.0029 | 0.0017 |
| Dissolved Nickel | 0.350 | mg/L | 0.00145 | 0.0005 | 0.0032 | 0.0011 | 0.0016 | 0.0013 | 0.0014 | 0.0014 | 0.0005 | 0.0014 | 0.0032 | 0.0012 | 0.0013 | 0.0019 | 0.0011 |
| Dissolved Lead | 0.220 | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.00050 | 0.00050 | 0.00050 | 0.00050 | 0.00050 | 0.00050 | <0.0005 | <0.0005 | <0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Dissolved Zinc | 0.750 | mg/L | 0.01399 | 0.006 | 0.028 | 0.00600 | 0.01000 | 0.00700 | 0.00800 | 0.00700 | 0.01000 | 0.01900 | 0.028 | 0.0160 | 0.03 | 0.013 | 0.019 |
| Dissolved Mercury | 0.005 | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.00050 | 0.00050 | 0.00050 | 0.00050 | 0.00050 | 0.00050 | <0.0005 | <0.0005 | <0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Cyanide | 0.200 | mg/L | 0.00925 | 0.005 | 0.02 | 0.005 | 0.005 | 0.012 | 0.006 | 0.006 | 0.005 | 0.010 | 0.019 | 0.008 | 0.01 | 0.005 | 0.020 |
| Phenol | 0.500 | mg/L | 0.00929 | 0.005 | 0.01 | 0.010 | 0.010 | 0.010 | 0.010 | 0.005 | 0.010 | 0.010 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Oil and Grease | n/a | n/a | 11.6364 | 4 | 43 | 17 | 43 | 4 | 4 | 24 | 4 | 8 | 12 | <4 | 4.000 | 4 | 4.000 |
| Nitrate-Nitrogen | n/a | mg/L | 0.99083 | 0.06 | 2.74 | 0.20 | 0.06 | 0.82 | 0.33 | 0.36 | 1 | 0.66 | 1.78 | 2.14 | 0.10 | 2.12 | 2.74 |
| Dissolved Reactive Phosphorus | n/a | mg/L | 2.10692 | 0.243 | 3.74 | 2.76 | 0.243 | 1.88 | 0.33 | 0.36 | 3.29 | 3.25 | 2.82 | 2.52 | 3.74 | 1.61 | 2.48 |
| pH | n/a | | 7.49167 | 6.8 | 8 | 8 | 7 | 7.3 | 7.3 | 7.3 | 7.8 | 7.9 | 7.5 | 7.9 | 7.3 | 7.9 | 6.9 |
| Conductivity | n/a | mS/m | 105.867 | 49.9 | 138 | 138 | 50 | 120 | 82 | 126 | 127 | 117.0 | 123 | 94 | 106 | 86 | 102 |
| Ammonia Nitrogen | n/a | mg/L | 22.2333 | 7 | 35 | 24.9 | 7 | 23.5 | 20.3 | 26.6 | 30 | 29.10 | 35.0 | 17.1 | 16.4 | 17.5 | 19.5 |

**Table 1: Effluent Heavy Metal and other compounds analysis**

# Condition (13)

The permit holder shall collect representative coastal water samples from knee deep water at the following locations, once each month for six months through November to April inclusive each year, for the duration of this permit:

Fitzroy Bay 400 m SE of outfall (R27:651.807)
Fitzroy Bay 100 m SE of outfall (R27:650.808)
Fitzroy Bay 100 m NW of outfall (R27:648.808)
Fitzroy Bay 400 m NW of outfall (R27:647.810)
Pencarrow Head at Lighthouse (R27:647.816)
Inconstant Point (R27:650.825)
Hinds Point (R27:655.839)

The water samples shall be analyzed for faecal coliform and enterococci bacteria.

Table 2 summarises the coastal water sampling from November 2024 to April 2025. The bacteriological levels observed were well below the bathing standard limits for most of the year except for a small spike in January 2025 at 100m SE of the Outfall at Fitzroy Bay.

| | Fitzroy Bay 400m SE of Outfall | | Fitzroy Bay 100m SE of Outfall | | Fitzroy Bay 100m NW of Outfall | | Fitzroy Bay 400m NW of Outfall | | Pencarrow Head at Lighthouse | | Inconstant Point | | Hinds Point | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Enterococci | Faecal Coliforms | Enterococci | Faecal Coliforms | Enterococci | Faecal Coliforms | Enterococci | Faecal Coliforms | Enterococci | Faecal Coliforms | Enterococci | Faecal Coliforms | Enterococci | Faecal Coliforms |
| | cfu/100ml | cfu/100ml | cfu/100ml | cfu/100ml | cfu/100ml | cfu/100ml | cfu/100ml | cfu/100ml | cfu/100ml | cfu/100ml | cfu/100ml | cfu/100ml | cfu/100ml | cfu/100ml |
| 28/11/2024 | 10 | <10 | <10 | 20 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| 12/12/2024 | <10 | <10 | 10 | <10 | <10 | <10 | <10 | <10 | 30 | 10 | 20 | <10 | <10 | <10 |
| 26/01/2025 | <10 | <10 | 280 | 230 | <10 | <10 | <10 | <10 | 10 | 10 | <10 | <10 | <10 | <10 |
| 12/02/2025 | 90 | <10 | 20 | 40 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 60 |
| 31/03/2025 | <10 | <10 | <10 | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| 15/04/2025 | <10 | 30 | <10 | 40 | <10 | 10 | <10 | <10 | <10 | <10 | <10 | 10 | <10 | <10 |

Table 2: Coastal Water Sampling

## Condition (14)

The permit holder shall collect three replicate composite samples of the green-lipped mussel (Perna canaliculus) from the near shore waters at each of the following location during February or March of every second year, for the duration of this permit:
Fitzroy Bay 100 m NW of outfall (R27:648.808)
Fitzroy Bay 400 m NW of outfall (R27:647.810)
Pencarrow Head at Lighthouse (R27:647.816)

The flesh of the mussel samples shall be analysed for arsenic and trace metal (cadmium, chromium, copper, mercury, lead, nickel and zinc) concentrations.

In June 2024 Wellington Water lodged an RMA s127 request to remove condition 14 from Consent WGN050359 (to discharge wastewater to the coastal marine area at Bluff Point). This condition required sampling of green lipped mussels. The updated consent was reissued on 6th December 2024 with this condition removed.

## Condition (17)

The permit holder shall make the results of all monitoring undertaken, as required by conditions of this permit, available to the Manager, Environmental Regulation, Wellington Regional Council on request, including provision of results in electronic format, and a monitoring report for each three-month period ending March, June, September and December shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council within 30 days after the end of each three month period. The quarterly report shall include reasons for any non-compliance and subsequent actions undertaken to remedy the non-compliance.

This annual report also intends to comply with this quarterly report requirement for the period April to June 2025. The required information for the conditions listed above can be found in this report.

# Condition (18)

The permit holder shall provide to the Wellington Regional Council an annual monitoring report by 31 July each year summarising compliance with the conditions of this permit. This report shall include as a minimum:

a) A summary of all monitoring undertaken in accordance with the conditions of this permit and a critical analysis of the information in terms of compliance and adverse environmental effects;
b) A comparison of data with previously collected data in order to identify any emerging trends;
c) Any reasons for non-compliance or difficulties in achieving compliance with the conditions of this permit;
d) Any measures that have been undertaken, to improve the environmental performance of the wastewater treatment and disposal system; and
e) Any other issues considered to be important;

## Section (a)

Table 3 summarises the treatment plant data monitored from July 2024 to June 2025. The median, minimum and maximum values are tabulated for each parameter.

| Parameter | Units | Geomean Limit | Minimum | Median | 80$^{th}$ Percentile |
|---|---|---|---|---|---|
| WWTP Effluent Discharge | $m^3$ | 268,000 | 43,643 | 56,895 | 77,696 |
| Daily Effluent BOD | $g/m^3$ | 50 | 3 | 12 | 25 |
| Daily Effluent Suspended Solids | $g/m^3$ | 50 | 3 | 18 | 40 |
| Daily Effluent Faecal Coliform | cfu/100mL | 1,000 | 10 | 1646 | 37,453 |

**Table 3: Summary of Monitoring Results**

Effluent BOD and suspended solids are expected to have less than minor effect in the receiving environment with suspended solids only becoming non-compliant in the final few days of the reporting period (noting the plant returned to suspended solids compliance on the 19$^{th}$ July 2025).

An assessment of environmental effects (AEE) for the continued non-compliance in faecal coliform parameters observed for an extended period in 2024/25 at Seaview WWTP, has been commissioned by Wellington Water. The AEE report is provided in Appendix VI : Assessment of Effects Non-Compliant Wastewater Discharges 2024/25 .

## Section (b)

Below is the comparison of the effluent flow rates for the last five financial years.

**WWTP Effluent Discharge Volume:**

WWTP effluent discharge volume is used to establish a trend. In figure 5, it can be noted that the plant's effluent discharge volume is affected during wet weather.

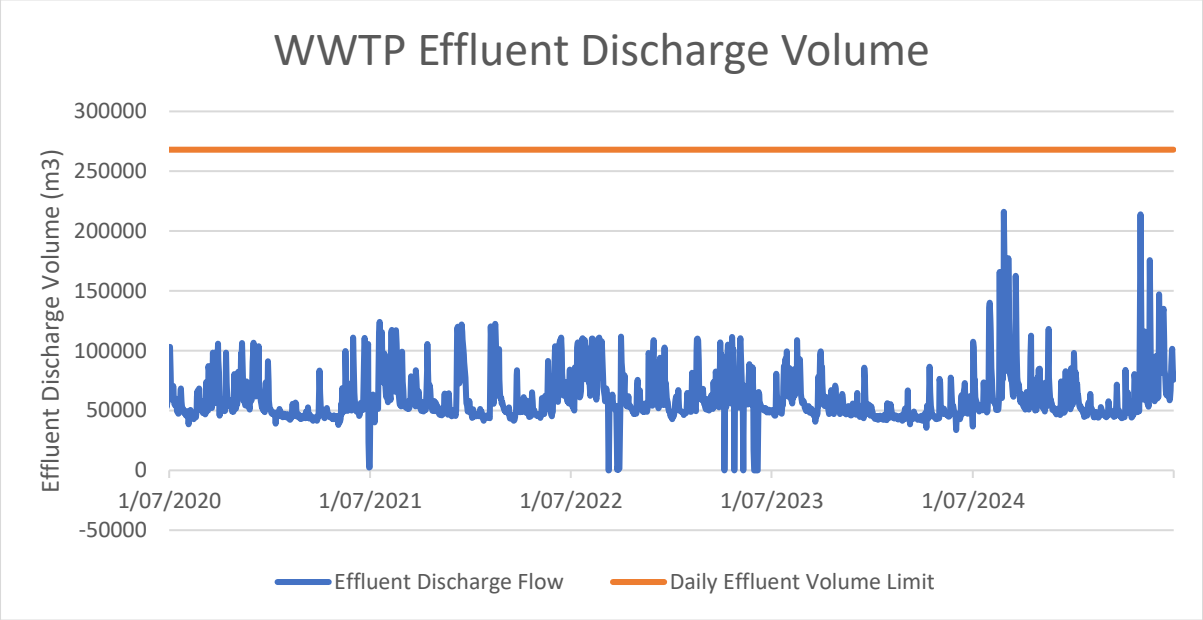



**Figure 5: Effluent Discharge Flow**

**WWTP Effluent $BOD_5$:**

To establish a trend, effluent $cBOD_5$ 90-day rolling geometrical mean and 80$^{th}$ percentile in the last five financial years has been used. The plant is below the compliance limits.

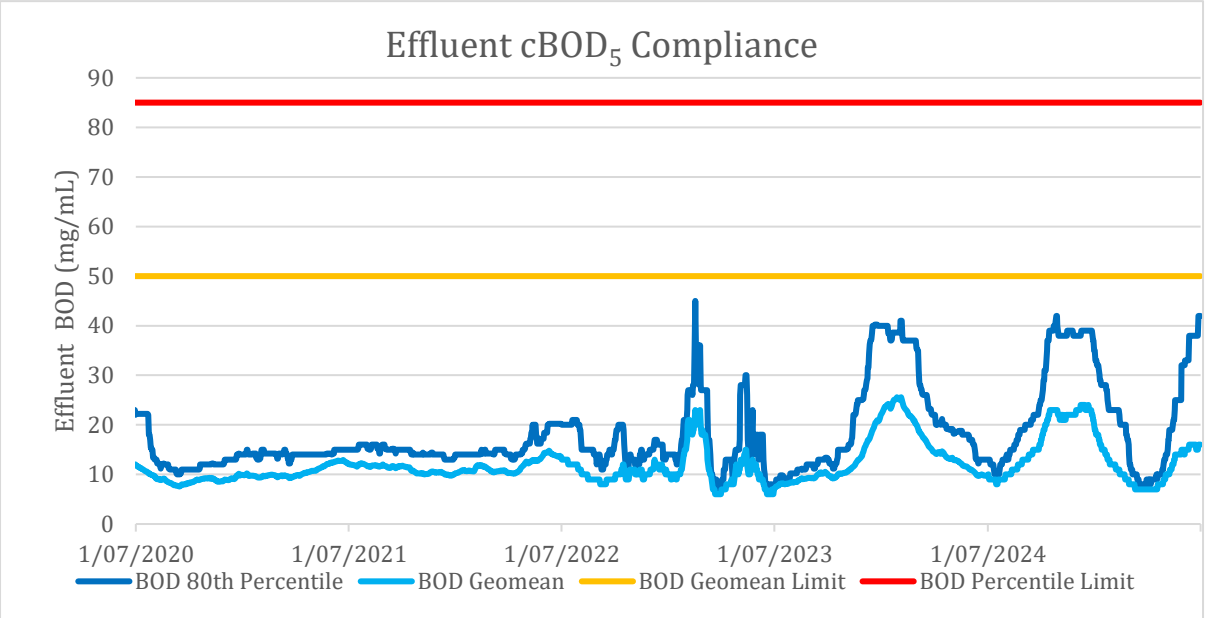



**Figure 5: Effluent $cBOD_5$ Compliance**

**WWTP Effluent Suspended Solids:**

To establish a trend, effluent suspended solids 90-day rolling geometrical mean and 80$^{th}$ percentile in the last five financial years has been used. The plant has been non-compliant with the 80$^{th}$ percentile in the last two reporting periods.

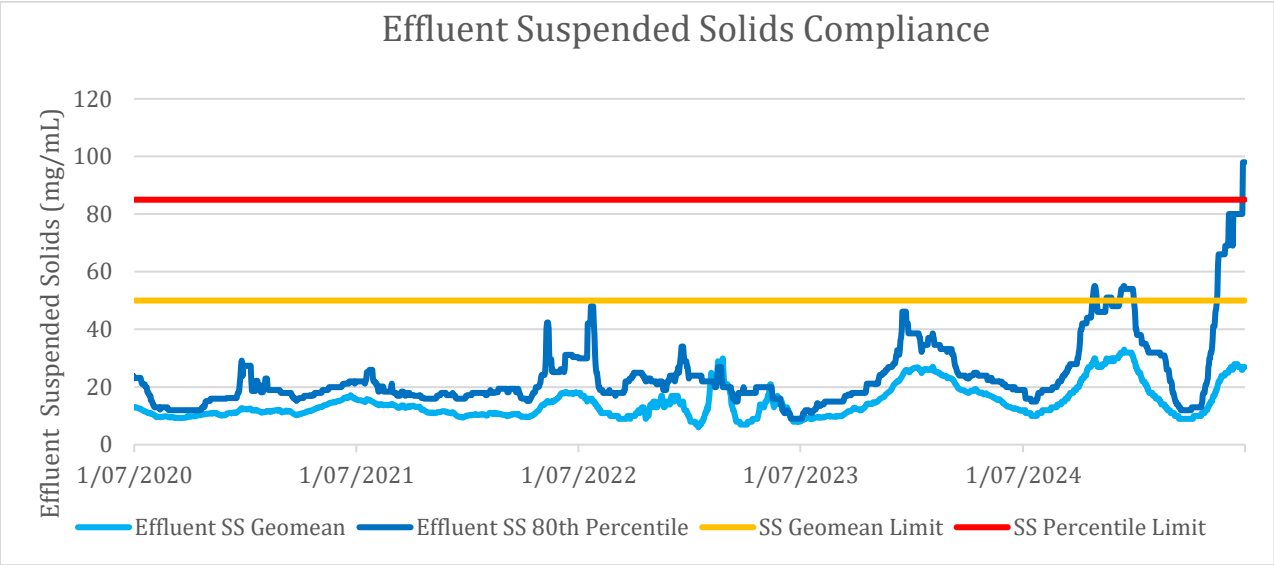



Figure 6: Effluent Suspended Solids Compliance

**WWTP Faecal Coliforms:**

To establish a trend, effluent faecal coliform 90-day rolling geometrical mean and 80$^{th}$ percentile in the last five financial years has been used. The plant has failed to consistently meet the effluent faecal coliform requirements since FY2020/21. The failure to meet consistent compliance can be attributed to the poor condition of the assets in the treatment plant especially the UV system, environmental factors such as proliferation of algae during summer and treatment process issues affecting ability of the UV disinfection process to perform acceptably.

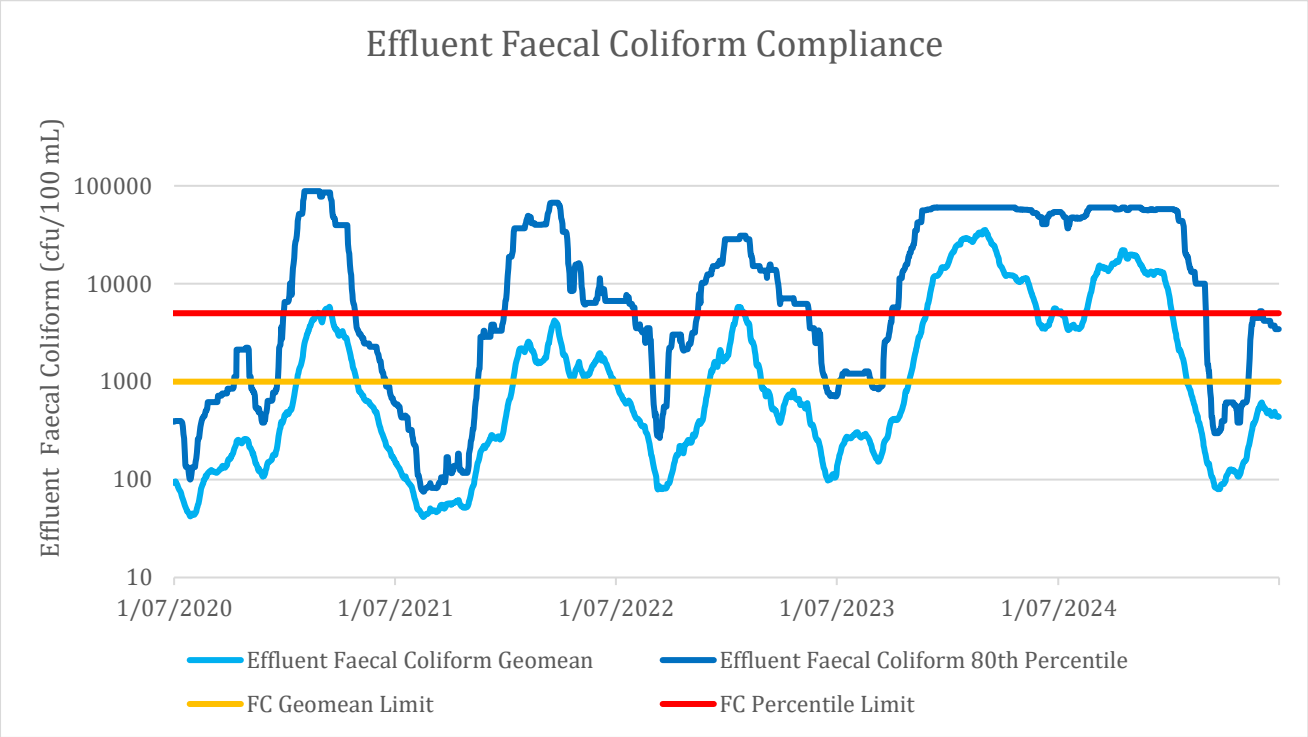



Figure 7: Effluent Faecal Coliform Compliance

A graphical representation of the daily effluent results for all three parameters can be found in Appendix I: Daily Effluent Results.

Table 4 below shows the statistical analysis of the analyte monitoring requirements as stated in schedule 11. The values are well below the limits throughout FY2024/25.

| Analyte | Limit | Unit | Geomean | Min | Max |
|---|---|---|---|---|---|
| Dissolved Arsenic | 0.115 | mg/L | 0 | 0.001 | 0.00 |
| Dissolved Cadmium | 0.035 | mg/L | 0.0002 | 0.0002 | 0.0002 |
| Dissolved Chromium | 0.220 | mg/L | 0.0015833 | 0.001 | 0.003 |
| Dissolved Copper | 0.065 | mg/L | 0.0022583 | 0.0015 | 0.0034 |
| Dissolved Nickel | 0.350 | mg/L | 0.00145 | 0.0005 | 0.0032 |
| Dissolved Lead | 0.220 | mg/L | 0.0005 | 0.0005 | 0.0005 |
| Dissolved Zinc | 0.750 | mg/L | 0.0139917 | 0.006 | 0.028 |
| Dissolved Mercury | 0.005 | mg/L | 0.0005 | 0.0005 | 0.0005 |
| Cyanide | 0.200 | mg/L | 0.00925 | 0.005 | 0.02 |
| Phenol | 0.500 | mg/L | 0.0092857 | 0.005 | 0.01 |
| Oil and Grease | n/a | n/a | 11.636364 | 4 | 43 |
| Nitrate-Nitrogen | n/a | mg/L | 0.9908333 | 0.06 | 2.74 |
| Dissolved Reactive Phosphorus | n/a | mg/L | 2.1069167 | 0.243 | 3.74 |
| pH | n/a | | 7.4916667 | 6.8 | 8 |
| Conductivity | n/a | mS/m | 105.86667 | 49.9 | 138 |
| Ammonia Nitrogen | n/a | mg/L | 22.233333 | 7 | 35 |
| Total Phosphorus | n/a | mg/L | 0 | 0 | 0 |

Table 4: Heavy metals and other monitoring compounds statistical analysis.

Table 5 below is the statistical analysis of the analyte monitoring requirements for coastal water sampling. The results are consistent throughout FY2024/25 with the exception of the bacteriological levels in Fitzroy Bay 100 SE of the outfall. This sampling site had elevated results in January 2025 which increased the geomean results.

| Location | Analyte | Unit | Geomean | Min | Max |
|---|---|---|---|---|---|
| Fitzroy Bay 400m SE of Outfall | Enterococci | cfu/100ml | 50 | 10 | 90 |
| Fitzroy Bay 400m SE of Outfall | Faecal Coliforms | cfu/100ml | 30 | 30 | 30 |
| Fitzroy Bay 100m SE of outfall | Enterococci | cfu/100ml | 103 | 10 | 280 |
| Fitzroy Bay 100m SE of outfall | Faecal Coliforms | cfu/100ml | 68 | 10 | 230 |
| Fitzroy Bay 100m NW of outfall | Enterococci | cfu/100ml | 10 | 10 | 10 |
| Fitzroy Bay 100m NW of outfall | Faecal Coliforms | cfu/100ml | 10 | 10 | 10 |
| Fitzroy Bay 400m NW of outfall | Enterococci | cfu/100ml | 10 | 10 | 10 |
| Fitzroy Bay 400m NW of outfall | Faecal Coliforms | cfu/100ml | 10 | 10 | 10 |
| Pencarrow Head at Lighthouse | Enterococci | cfu/100ml | 20 | 10 | 30 |
| Pencarrow Head at Lighthouse | Faecal Coliforms | cfu/100ml | 10 | 10 | 10 |
| Inconstant Point | Enterococci | cfu/100ml | 20 | 20 | 20 |
| Inconstant Point | Faecal Coliforms | cfu/100ml | 10 | 10 | 10 |
| Hinds Point | Enterococci | cfu/100ml | 10 | 10 | 10 |
| Hinds Point | Faecal Coliforms | cfu/100ml | 60 | 60 | 60 |

Table 5: Coastal Water Monitoring statistical analysis

## Section (c)

The plant was non-compliant for the faecal coliform and suspended solids requirements during this consent period with the exact time periods informed earlier in the report under condition 10. In summary, the reasons are explained below:

**Suspended Solids**
The non-compliance for suspended solids in June 2025 was attributed to several extended heavy rain events in April/May which caused a ''biomass washout'' effect resulting in high suspended solids results being recorded numerous days consecutively driving up the 90-day percentile.

**Faecal Coliforms**
The non-compliance for faecal coliforms was for two separate periods during the 2024/25 compliance period.

The first period was extended from the beginning of the reporting period till January 2025 (Geomean) and March (Percentile) 2025. This extended period of non-compliance was caused by a reduction of UV disinfection effectiveness due to the following reasons:

- The UV system is nearing the end of its expected life (prior to its refurbishment in October 2024).
- Biological treatment process issues from a number of asset failures and incidents within the plant in late 2024 negatively affected the thermal dryer operation, most notably the UV system performance.
- Significant wet weather events elevate faecal coliform levels.
- Various mechanical failures in the primary sedimentation tanks (PST) which negatively impacted the downstream processes including the UV system.

The second period was for the 90-day 80$^{th}$ percentile limit for a period of four days from 30 March to 2 June 2025 and was mainly attributed to the heavy rain events in April/May also mentioned above in the suspended solids explanation.

The investigation report required for this period of non-compliance under condition 10 was submitted to GWRC on 10 July 2025 and provides more detail.

## Section (d)

The poor compliance performance can mostly be attributed to poor condition of the assets across the treatment plant. These assets have been identified and programmed for renewal subject to council's funding.

A detailed plan to return the plant to effluent compliance has been developed in 2024/25 which defines a programme of activities to improve effluent compliance, centered around three key areas:

1. Process control and operational administration
2. Maintenance
3. Capital Renewal Programme

The compliance documents a large range of inter-related actions and renewal projects that need to be completed before consistent compliance can be achieved. Process control and operational administration, and maintenance are mainly short-term measures, while the renewal programme is longer term.

The compliance plan is currently in draft under review by the relevant stakeholders before final sign off is made, expected to be in early 2025/26.

There were also several critical capital projects that took place in 2024/25 to help improve the plant's performance. Examples of these were:

- Three out of the four Primary Sedimentation Tanks were fully refurbished (the 4$^{th}$ is scheduled for August 2025).
- The UV Disinfection System was fully refurbished in September 2024 to improve performance until the new UV System is installed in 2025/26.
- The Thermal Dryer was shut down for a planned 12-day period to enable multiple critical components to be replaced/refurbished at the same time. A second stage is required. This is interim work to main operation of the existing dryer until the new dryer is constructed.
- Design was completed for the replacement Milliscreens, a project that is programmed to complete installation of 4 of the 10 milliscreens replaced with new units in 2025/26.
- A major refurbishment of the odour treatment biofilter was completed in August 2024 to improve odour treatment performance. This was the first of three stages of odour treatment upgrades at the plant which is part of an Abatement notice issued by GWRC.

## Section (e)

Several non-compliance notices including an Abatement were received from GWRC in relation to this consent condition for FY2024/25, these can be found in more detail in Appendix III.

## Condition (19)

| |
|---|
| The permit holder shall take reasonable steps to investigate ways and means of minimizing infiltration and stormwater ingress into the sewerage system and provide the Manager, Environmental Regulation, Wellington Regional Council, with an annual report by 31 July on progress. |

A report for inflow and infiltration can be found in Appendix II: Inflow and Infiltration Report.

## Condition (20)

| |
|---|
| The permit holder shall take reasonable steps to monitor and manage trade waste inflows into the sewerage system so as to minimize the risk of disruption to the wastewater treatment process. The permit holder shall provide the Manager, Environmental Regulation, Wellington Regional Council, with an annual report on trade waste which summarises issues arising and actions taken by 31 July. |

A report compiled by the Hutt City Tradewaste team can be found in Appendix IV: HCC Trade Waste Report 2024/25.

# Condition (22)

The permit holder shall submit an annual report for the main outfall pipeline, which addresses activities undertaken during the previous year, to the Manager, Environmental Regulation, Wellington Regional Council, by 31 July each year. This report shall include, but not be limited to, the following elements:

(a) Details of works (including any repairs and replacements) undertaken during the past year; and

(b) Collation and assessment of the results of any environmental monitoring undertaken during the year.

## Section (a)

On Saturday 10th August, 2024 Wellington Water crews responded to a leak on the discharge pipework from the Days Bay pump station. On site investigation identified that both Days Bay discharge and the Main Outfall Pipeline (MOP) were connected to the leak. The two valves which isolate the MOP from Days Bay pump station discharge pipework could not isolate the flow. On Sunday 11th August treatment plant effluent (fully treated) was diverted to the Waiwhetu Stream and draining of the Main Outfall commenced to enable a repair. The repair also required Point Arthur and York Bay pump stations to be isolated as they are directly connected to the pipework from Days Bay. Hydro-Vac trucks were mobilised to those pumping stations for several days to minimise overflows until they could be brought back into operation. Hydro-Vac trucks were required for Days Bay throughout the repair works.

For clarity, this was not a repair to the MOP itself but a repair to the two valves within the sewer network leading to the treatment plant, and was led by the Wellington Water Network Operations Group (NOG). However, with the MOP being required to be drained down to enable the works, the consent was activated by using the scour valves to drain to the Coastal Marine Area and also to discharge fully treated effluent to the Waiwhetu Stream whilst these network repairs were undertaken in that period.

GWRC were informed of this discharge immediately and were kept up to date regularly with the progress of the repair and when the MOP was brought back into operation on 23 August 2024. The record of this repair for can be found in the table below:

| Start date | End date | Type of repair | Shutdown required ? | Location of the Leak Repair |
|---|---|---|---|---|
| 11/8/24 8:10am | 23/8/24 10:00am | Unplanned/Permanent (Network repair requiring MOP to be drained) | Yes | Days Bay Pump Station |

Table 7: Outfall Maintenance

**PLANNED WORKS ON MOP FOR 2025/26**

There is no planned repair works scheduled for the 2025/26 period as at the time of this report being written.

## Section (b)

After the Days Bay Pump Station repair was completed, Wellington Water engaged Stantec to produce an Assessment of Environmental Effects specifically related to the event. This was submitted to GWRC in November 2024 and can be provided on request.

A complete list of all the analytical results can be found in Appendix V: Seaview Wastewater Treatment Plant Assessment of Effects of Overflow Discharges to Waiwhetu Stream.

# WGN120142 [33406]

## Condition (4)

The consent holder shall establish a consultation group by 1 March 2013 of within a longer timeframe approved by the Manager, Environmental Regulation, Wellington Regional Council. As a minimum the group shall be made up of those individuals/community groups that submitted on this consent who wish to participate and interested persons put forward by those submitters who wish to participate.

The functions of the consultation group is to provide:

- Comment on the Public Notification Strategy required by condition 5 of this consent
- Comment on the Overflow Contingency Plan required by condition 22 of this consent
- Comment on the option assessment report required by condition 26 of this consent directly to Wellington Regional Council, and
- Be a line of communication between the consent holder, the submitters, and the wider community for the duration of the consent

The consent holder shall notify the Manager, Environmental Regulation, Wellington Regional Council of the establishment of consultation group by 1 March 2013.

Note 1: The consultation group is considered "established" when the consent holder has collated contact details for all submitters/interested persons joining the group, and the group has been provided with a plan of how the consultation process will be facilitated.

Note 2: The consultation group is not a decision making group, but is a forum for the dissemination of information from the consent holder and provides and opportunity for the group to comment on consent compliance and the development of specific plans.

Note 3: The consultation group is expected to provide comments to the consent holder within two weeks of being sent information/plans to review.

Note 4: The need for and the frequency of the meetings shall be determined by the consultation group following the receipt of the reports/plans received in accordance with this condition.

There have been several meetings held throughout the reporting period to update the community on plant performance particularly in relation to odour from which the plant has had difficulty controlling for extended periods. The key points from these meetings have been circulated to the group and shared to the Wellington Water website for public perusal.
In addition to this requirement, Wellington Water has published a regular monthly newsletter, to keep the wider community better informed on current issues and project progress.

# Condition (9)

The consent holder shall monitor the flow rate, duration and total volume of all overflows discharged from the treatment plant into the Waiwhetu Stream and shall report the results to Wellington Regional Council in accordance with condition 25 of this consent, or upon request.

The flow monitoring devices shall be capable of measuring wastewater flows of magnitudes up to and beyond peak instantaneous flow rates, and calibrated and maintained to ensure that the measurement error is no more than +/- 10%.

The following Table 8 is a summary of the flow rates, duration, and total volume of overflow discharges from the Seaview WWTP to the Waiwhetu Stream:

| Date | Duration | Volume | Mean Flow | Peak Flow | Consented | Reason |
|---|---|---|---|---|---|---|
| | hrs/mins | $m^3$ | L/s | L/s | | |
| 2/7/2024 | 06hr 36m | 12,355 | 544 | 1,247 | Yes | Wet Weather |
| 30/7/2024 | 80hr 00m | 53,602 | 186 | 1,062 | Yes | Wet Weather |
| 12/8/2024 | 309hr 25m | 822,911 | 739 | 2,453.6 | Yes | Dry Weather -Days Bay isolation valve failure linked to SMOP required draindown (Network fix) |
| 26/8/2024 | 162hr 00m | 184,360 | 316 | 1,617 | Yes | Wet Weather Event |
| 26/8/2024 | 00hr 35m | CMA – 1801<br>Stream-3018 | CMA - 751<br>Stream - 1258 | CMA - 1330<br>Stream - 1617 | No | Dry Weather - Power outage caused the UV to shut down at 5:19pm. Power was restored and the UV was back online at 5:48pm |
| 3/9/2024 | 35hr 05m | 48,517 | 383 | 1,452 | Yes | Wet Weather |
| 16/9/2024 | 08hr 05m | 7,714 | 257 | 536 | No | Dry Weather – PLC Instrumentation failure causing effluent pumps to stop running in auto |
| 16/9/2024 | 49hr 10m | 71,538 | 404 | 1,442 | Yes | Wet Weather |
| 14/10/2024 | 10hr 32m | 16,609 | 438 | 1,252 | Yes | Wet Weather |
| 15/11/2024 | 08hr 49m | 19,914 | CMA 4.11<br>Stream 627 | 1,474 | Yes | Wet Weather |
| 16/12/2024 | 00hr 51m | 304 | 99 | 281 | Yes | Wet Weather |
| 27/12/2024 | 01hr 11m | 5,593 | 1,313 | 1,608 | No | Wet Weather – Overpressure issue with effluent pumps and backup level controller fault causing standby pump to not start |
| 4/4/2025 | 00hr 13m | 201 | 258 | 443 | Yes | Wet Weather |

| Date | Duration | Volume | Mean Flow | Peak Flow | Consented | Reason |
|---|---|---|---|---|---|---|
| | hrs/mins | $m^3$ | L/s | L/s | | |
| 21/4/2025 | 02hr 48m | 4,625 | 459.00 | 1,358 | Yes | Wet Weather |
| 30/4/2025 | 57hr 52m | 157,249 | 755 | 1,656 | Yes | Wet Weather |
| 9/5/2025 | 21hr 00m | CMA : 81452<br>Stream : 20366 | 269 | 1,317 | No | Wet Weather – Drop in pressure in the SMOP, related to effluent pumps, under investigation. |
| 18/5/2025 | 60hr 42m | CMA :252091<br>Stream : 80192 | 367 | 1,587 | Yes | Wet Weather |
| 29/5/2025 | 06hr 33m | CMA :28173<br>Stream :5455 | 231 | 1,302 | Yes | Wet Weather |
| 4/6/2025 | 27hr 27m | CMA :118301<br>Stream :42078 | 426 | 1,383 | Yes | Wet Weather |
| 6/6/2025 | 25hr 17m | CMA :110887<br>Stream :12821 | 141 | 1,309 | Yes | Wet Weather |
| 11/6/2025 | 52hr 30m | CMA :229407<br>Stream :42830 | 1,440 | 2,560 | Yes | Wet Weather |
| 27/6/2025 | 26hr 25m | CMA :101402<br>Stream :6655 | 70 | 1,260 | Yes | Wet Weather |

**Table 8: Seaview WWTP Discharge Events**

## Condition (10)

| |
|---|
| The consent holder shall install, commission and operate a flow sensor as close as practicable to the discharge point in the Waiwhetu Stream by 1 August 2013 to the satisfaction of the Manager, Environmental Regulation, Wellington Regional Council that is capable of continuously monitoring and logging flow in the stream during a discharge event.<br><br>Note: It is recommended that the design, specification and operation of the flow sensor are discussed with Greater Wellington Flood Protection and Environmental Monitoring and Investigation Departments prior to installation. |

The Waiwhetu River flow rates were submitted to GWRC as trends in the discharge notifications. The average, minimum, and maximum flow rates of the Waiwhetu Stream are included in every discharge report.

## Condition (11)

| |
|---|
| The consent holder shall take a grab sample of treated wastewater as it leaves the treatment plant prior to entering the overflow pipe each day that a discharge occurs for more than one hour. The sample shall be analyzed for parameters specified in condition 14. |

A complete list of all the analytical results can be found in Appendix V: Seaview Wastewater Treatment Plant Assessment of Effects of Overflow Discharges to Waiwhetu Stream.

# Condition (12)

Each day a discharge occurs and one day after the cease of a discharge the consent holder shall take representative grab samples of Waiwhetu Stream water at ~~two levels in the water column, namely 0.5 centimetres and~~ 15 centimetres below the surface. The samples shall be collected from the true left bank of the Waiwhetu Stream at locations specified in Table 1.1:

Table 1.1 Water quality monitoring locations

| Site | NZTM | |
|---|---|---|
| | Easting | Northing |
| Immediately upstream of the port Road Bridge | 1759345 | 5433136 |
| Adjacent to the Waiwhetu Pa site and downstream of the public walkway | 1759539 | 5433352 |
| Immediately downstream of the Bell Road Bridge | 1760431 | 5433523 |

The consent holder shall record the date, time (NZ standard time), weather (in particular wind direction and strength) and tidal conditions (low/medium/high and ebb/flood tide) at the stream mouth when the samples are taken. Where practicable, the sampling should be undertaken at least three house after any ebb tide starts.

Note: This condition does not apply to overflows with a duration of less than one hour.

An assessment was performed on the overflow discharges of treated wastewater from the Seaview treatment plant to the Waiwhetu Stream during wet weather events. The report contains a map of the sampling sites and all the environmental conditions at the time of sampling. A copy of the report can be found in Appendix V: Seaview Wastewater Treatment Plant Assessment of Effects of Overflow Discharges to Waiwhetu Stream.

# Condition (14)

The samples collected in accordance with conditions 11 and 12 shall be analyzed for:

- Faecal Coliforms (cfu/100mL)
- Carbonaceous Biochemical Oxygen Demand ($g/m^3$)
- Enterococci(no./100mL)
- Escherichia coli (no./100mL)
- Dissolved Reactive Phosphorus ($g/m^3$)
- Ammoniacal Nitrogen ($g/m^3$)
- Nitrate Nitrogen ($g/m^3$)
- Nitrite Nitrogen ($g/m^3$)

In addition, on each sampling occasion at the three locations along the Waiwhetu Stream as described in condition 12 the consent holder shall ensure the following in-situ measurements are recorded:

- Water temperature
- pH
- Salinity, and
- Dissolved oxygen.

An assessment of the above results shall be provided in the annual report required by condition 25. Copies of the water quality monitoring results shall be provided in both electronic and hardcopy format to the Manager, Environmental Regulation, Wellington Regional Council upon request.

A complete list of all the analytical results can be found in Appendix V: Seaview Wastewater Treatment Plant Assessment of Effects of Overflow Discharges to Waiwhetu Stream.

# Condition (15)

(a) The discharge shall not result in any of the following effects on the water of the Waiwhetu Stream beyond the reasonable mixing zone boundary defined as 100m downstream of the Waiwhetu Stream outfall (i.e. immediately upstream of Port Road Bridge) and 100m upstream the Waiwhetu Stream outfall (i.e. adjacent to Lot 2 DP 421395):

1) The product of any conspicuous oil or grease or grease films, scums or foams or floatable or suspended materials, or
2) Any conspicuous change in colour or clarity
3) Any emission of objectionable odour, or
4) Any significant adverse effects on aquatic life

(b) During each sampling event required by condition 12, the consent holder shall take photographs of the point of discharge and immediate receiving waters around the point of discharge to shower the presence of any of effects (1-4) listed in condition 15 (a) and any obvious undesirable biological growths or visible die-offs. The consent holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council a copy of the photographs in the annual report required by condition 25 of this consent or upon request.

Photographs at the above locations were taken after every discharge and are submitted as part of the Quarterly consent compliance reports. Occasionally they are omitted from the report itself, due to the number of discharges which increases the file size exponentially and are available on request. Please refer to the following documents:

Wastewater Project – Resource Consent Compliance Report: July – September 2024/2025
Wastewater Project – Resource Consent Compliance Report: October – December 2024/2025
Wastewater Project – Resource Consent Compliance Report: January – March 2024/2025 *(no discharges in this quarter thus no photographs).*

Wellington Water has confirmed photographs were taken of the discharges that occurred in April – June 2024/2025 however due to the size of the file these have been omitted from this annual report and shared to GWRC via a Dropbox folder. Wellington Water will consult GWRC on how to share these images in a more efficient way moving forward.

# Condition (16)

The consent holder shall keep a record of any complaints received. The record shall contain the following details, where practicable:

- Name and address of complaint (if provided)
- Identification of the nature of the complaint
- Date and time of the complaint and of the alleged event
- Weather conditions at the time of alleged event, and
- Any measures taken to address the cause of the complaint

The consent holder shall notify the Manager, Environmental Regulation, Wellington Regional Council of any complaints relating to the exercise of this consent, within 24 hours of being received by the consent holder or the next working day.

Notification can be sent to the Manger, Environmental Regulation, Wellington Regional Council at notifications@gw.govt.nz. Please include the consent reference WGN120142 [31523] and the name and phone number of a contact person responsible for the discharge. The consent holder shall forward to the Manger, Environmental Regulation, Wellington Regional Council a copy of the complaints record, in the annual report required by condition 25 of this consent.

There were three complaints recorded relating to the effluent discharge of Seaview WWTP in this reporting period. The details and the responses were recorded and can be made available upon request.

# Condition (20)

The results of the monitoring required by the TWVMP, shall be reported to the Manager, Environmental Regulation, Wellington Regional Council, on an annual basis, by 1 August, once the TWVMP has been approved. The assessment of the monitoring results shall be undertaken by a suitably qualified person that is to the satisfaction of the Manager, Environmental Regulation, Wellington Regional Council.

The TWVM report shall include, but not be limited to, the following:

- The results of all monitoring undertaken under the TWVMP
- A discussion of the likely impact the discharges are having/had on the cultural values of the waterbody including cumulative effects, if possible
- A comparison of these results with any previous monitoring undertaken in accordance with the TWVMP
- Any recommendations for changes to the TWVMP (e.g. indicator species, monitoring sites), and why
- Any recommendations for mitigation and minimizing the impact of the discharges on cultural values of the waterbody, if possible
- Copies of any comments on the monitoring results that have been received from the organisations included in condition 18, and
- Any other relevant information

The report shall be to the satisfaction of the Manager, Environmental Regulation, Wellington Regional Council.

A copy of the TWVM report shall be provided to the Te Runanganui o Taranaki Whanui kit e Upoko o te Ika Maui, Port Nicholson Block Settlement Trust and the Wellington Regional Council.

Development of the TWVMP has been delayed. GWRC needs to provide further information for this to proceed.

# Condition (23)

The consent holder shall investigate and implement ways and means of reducing stormwater infiltration and inflow (I&I) into the sewerage system with the aim of minimising overflow discharges. Investigations shall include but no be limited to:

- CCTV and pressure testing monitoring to identify faulty mains requiring replacement, and
- Flow monitoring and system assessment to identify the sources of inflow and infiltration, system performance and options to reduce the infiltration and inflow

The investigations and works undertaken to reduce I&I shall be reported on in the annual report required by condition 25.

An update regarding infiltration and inflow can be found in Appendix II: Inflow and Infiltration Report.

# Condition (25)

The consent holder shall prepare and submit comprehensive annual report to the Manager, Environmental Regulation, Wellington Regional Council, Regional Public Health and members of the consolation group as required by condition 4 of this consent by 1 August each year (covering the year 1 July to 30 June). The annual report shall include as a minimum:

- A summary of overflow events (including dates, volumes discharged, duration and cause)
- A summary of consolation group involvement
- The flow monitoring results (carried out under conditions 9 and 10 of this consent)
- The treated wastewater and water quality monitoring results (carried out under conditions 11 and 12 of this consent)
- A critical evaluation by an appropriately qualified and experienced scientist of the previous years monitoring results, in particular the environmental effects of each overflow discharge event. This evaluation shall utilize the treated wastewater and stream quality and flow monitoring data for each overflow event comparing the data against relevant environmental guidelines
- Photographs from the visual inspections undertaken under condition 15(b) of this consent
- Complaints record as required by condition 16
- Summary of II investigations, and work undertaken to reduce I&I into the sewerage network as required by condition 23
- Summary of investigations undertaken, a list of investigations scheduled for the upcoming year (required by condition 24), and timeframes for implementation of any upgrades and/or consent applications, and
- Any other matters the consent holder considers relevant.

The report shall be to the satisfaction of the Manager, Environmental Regulation, Wellington Regional Council.

An assessment was performed on the overflow discharges of treated wastewater from the Seaview Treatment Plant to the Waiwhetu Stream. The majority of the reporting requirements are contained within that report. A copy of the report can be found in Appendix V: Seaview Wastewater Treatment Plant Assessment of Effects of Overflow Discharges to Waiwhetu Stream.

Other reporting requirements not found in the AEE report can be found under the various conditions of resource consent WGN 120142 [33406].

# WGN 120142 [33407]

The permit allows the temporary discharge of treated wastewater to the coastal marine area, and onto land where it may enter streams or the coastal marine area from:

- Planned repairs
- Unplanned repairs
- Leaks associated with temporary repairs and
- Minor leaks

In relation to the main outfall pipeline from Seaview WWTP to Pencarrow Head.

## Condition 30

The consent holder shall prepare and submit a comprehensive annual report to the Manager, Environmental Regulation, Wellington Regional Council and Regional Public Health and members of the consultation group as required by condition 10 of this consent by 1 August each year (covering the year 1 July to 30 June). The annual report shall include as a minimum:

•A detailed summary of repairs undertaken on the pipeline in the last twelve months (i.e. planned and unplanned repair work) including detail on the length and location of repairs and any associated monitoring
•Repair work planned for the upcoming year
•The condition of temporary repairs made on the pipeline and programme for permanent repair
•A critical evaluation by an appropriately qualified and experienced scientist of the previous years monitoring results, in particular the environmental effects of each discharge event. This evaluation shall utilise the treated wastewater and water quality data, comparing the data against relevant environmental guidelines
•Summary of consultation group involvement
•Photographs of scour valves (required by condition 17 (b)) accompanied by field observations or comments as appropriate
•The complaints record (required by condition 22)
• Summary of investigations undertaken, a list of investigations scheduled for the upcoming year (required by condition 28), and timeframes for implementation of any upgrades and/or consent applications, and
•Any other matters the consent holder considers relevant

The report shall be to the satisfaction of the Manager, Environmental Regulation, Wellington Regional Council.

As mentioned earlier in the report (Condition 22 - 24539), there was an unplanned repair in the network related to the Days Bay Pump station in August 2024 that required the main outfall pipeline (MOP) to be drained down. This enabled work to replace two valves in the sewer network that had failed to isolate the connection between the MOP and the Days Bay pump station.

# WGN120142 [33408]

To temporarily discharge treated wastewater from the Seaview WWTP to the Waiwhetu Stream when the main outfall pipeline is being repaired.

## Condition 35

The consent holder shall prepare and submit a comprehensive annual report to the Manager, Environmental Regulation, Wellington Regional Council, Regional Public Health and the consultation group as required by condition 7 of this consent by 1 August each year (covering the year 1 July to 30 June). The annual report shall include as a minimum:

- A summary of overflow events (including dates, volume discharged, tidal conditions during discharges, the discharge duration and cause)
- Flow monitoring results (carried out under conditions 12 and 13 of this consent);
- Treated wastewater and water quality monitoring results (carried out under conditions 14 and 15 of this consent)
- Summary of consultation group involvement
- A critical evaluation by an appropriately qualified and experienced scientist of the previous years monitoring results, in particular the environmental effects of each overflow discharge event. This evaluation shall utilise the treated wastewater and stream water quality and flow monitoring data for each discharge event comparing the data against relevant environmental guidelines
- Photographs from the visual inspections undertaken under condition 18 (b) of this consent

There were no planned or unplanned repairs to the main outfall pipeline for FY2024/25 hence this consent was not utilised for this reporting period.

# WGN950162 (1492)

## Condition (6)

On completion of commissioning, there shall be no discharges to air that are noxious, dangerous, offensive or objectionable at or beyond the boundary of the property. These discharges include odour and dust.

The plant odour control system is in poor condition which affected overall odour treatment performance. This caused many odour complaints from the community and the regional council to issue non-compliance notices related to the odour treatment performance of the treatment plant.

To resolve the odour issue, the Seaview Odour Control Renewal Project has been initiated. The project is being delivered in three stages:
Stage 1 - Biofilter renewal and upgrade works
Stage 2 - Milliscreen ducting, milliscreen odour building treatment and dryer building odour treatment
Stage 3 - Remaining potential odour sources

Regular updates are being released to the community and relevant stakeholders on the progress of the project.

## Condition (15)

The consent holder shall carry out monitoring of air-borne pathogens to demonstrate compliance with condition 6. Monthly sampling at agreed sites for the first three months after commissioning and then at three monthly intervals thereafter for the first two years of operation with this frequency to be reviewed at the end of this period.

The location of the samples sites shall be mutually agreed between the consent holder and the Manager, Consents Management, Wellington Regional Council.

The testing shall be carried out by a standard method to the satisfaction of the Manager, Consents Management, Wellington Regional Council.

Ambient microbe monitoring has been carried out on11 February 2025. The results of the monitoring was forwarded to GWRC on 12 March 2025 and is shown in the table below.

| Site | Total Count (CFU/m³)[1] | Filter 1 Breakdown of Total Count | | | | | Filter 2 | | Filter 3 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total Bacteria (CFU/m³)[a] | Total Actinomycettes (CFU /m³)[a] | Total F/Fungi[b] (CFU /m³)[a] | Total Yeasts (CFU/m³)[a] | *Aspergillus Fumigatus* [c] (CFU /m³)[a] | Gram Negative (CFU/m³)[a] | Enterococci (CFU /m³)[a] | *Salmonella* Present/Absent | Total Coliforms Present/Absent | Faecal Coliforms Present/Absent |
| Site 1 | 95 | 28 | <3 | 64 | 3 | <3 | <3 | <3 | Absent | Absent | Absent |
| Site 2 | 136 | 13 | 15 | 108 | <3 | <3 | <3 | <3 | Absent | Absent | Absent |
| Site 3 | 659 | 33 | 27 | 599 | <3 | <3 | <3 | <3 | Absent | Absent | Absent |
| Down-wind | 240 | 14 | 6 | 220 | <3 | <3 | <3 | <3 | Absent | Absent | Absent |

Table 9 Seaview Wastewater Treatment Plant Ambient Microbe Monitoring, 11 February 2025

It has been agreed with GWRC that the ambient microbe monitoring will be carried out once per year.

The agreed sampling location sites are shown below:

*Locations*

All sampling shall be taken at the boundary;
1. At the gate of the plant
2. At the eastern boundary
3. Southern boundary near Wareham place
4. 1 x downwind location (determined on day of sampling)

Figure 1: sampling locations for airborne pathogen testing

# Condition (16)

The consent holder shall keep a record of any complaints received. The complaints shall be forwarded to the Manager, Consents Management within twenty-four hours of being received by the consent holder.

The consent holder shall endeavour to record the complainants name, time of incident that caused the complaint, wind direction and speed and plant operating conditions at the time of the complaint.

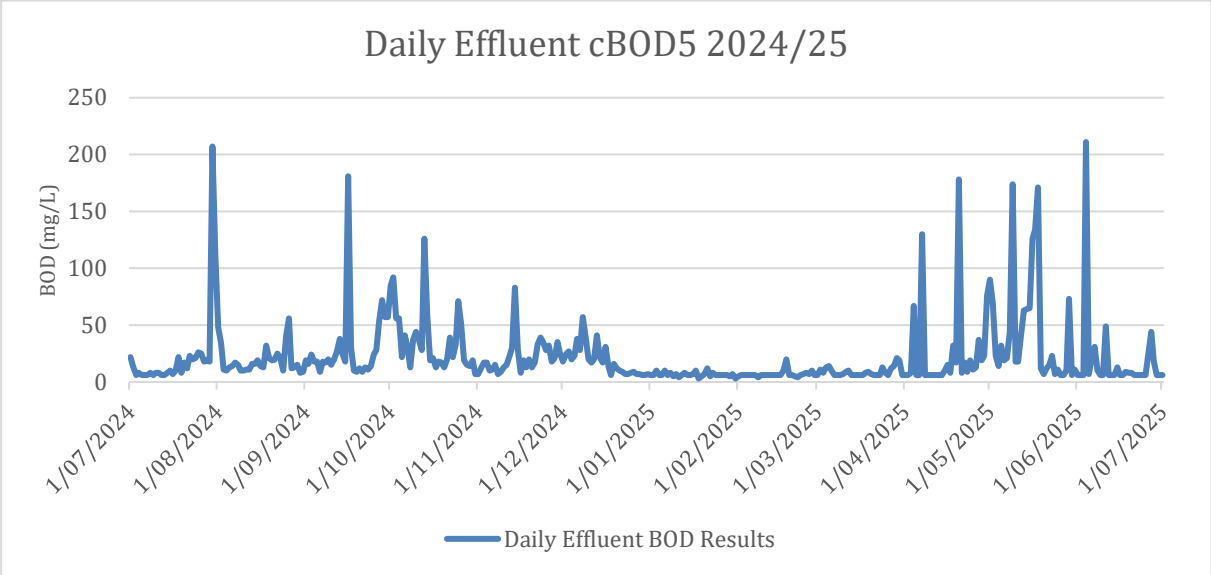
Any incident that could have caused or has caused adverse effects on the environment at or beyond the boundary of the site shall be notified to the Wellington Regional Council within twenty-four hour. This includes any incidents that result in complaints.

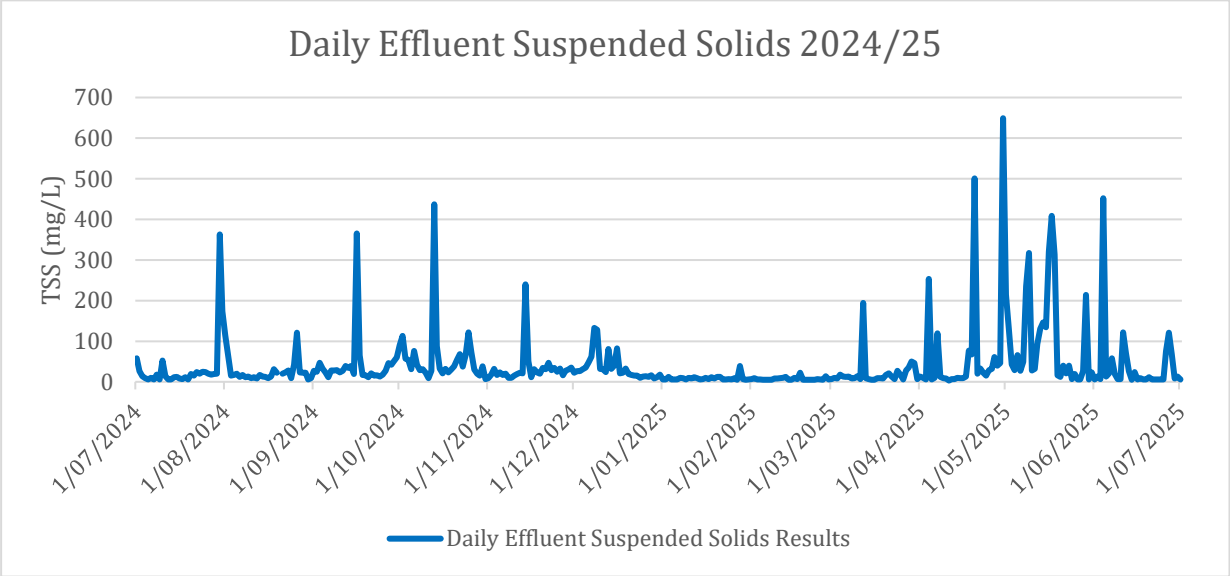
Wellington Water received a total of 331 odour complaints associated to Seaview WWTP for this reporting period 2024/25. This was primarily in relation to the plant processes being out of balance due to several mechanical failures in a short period. A full list of these complaints detailing the above requirements can be forwarded upon request.

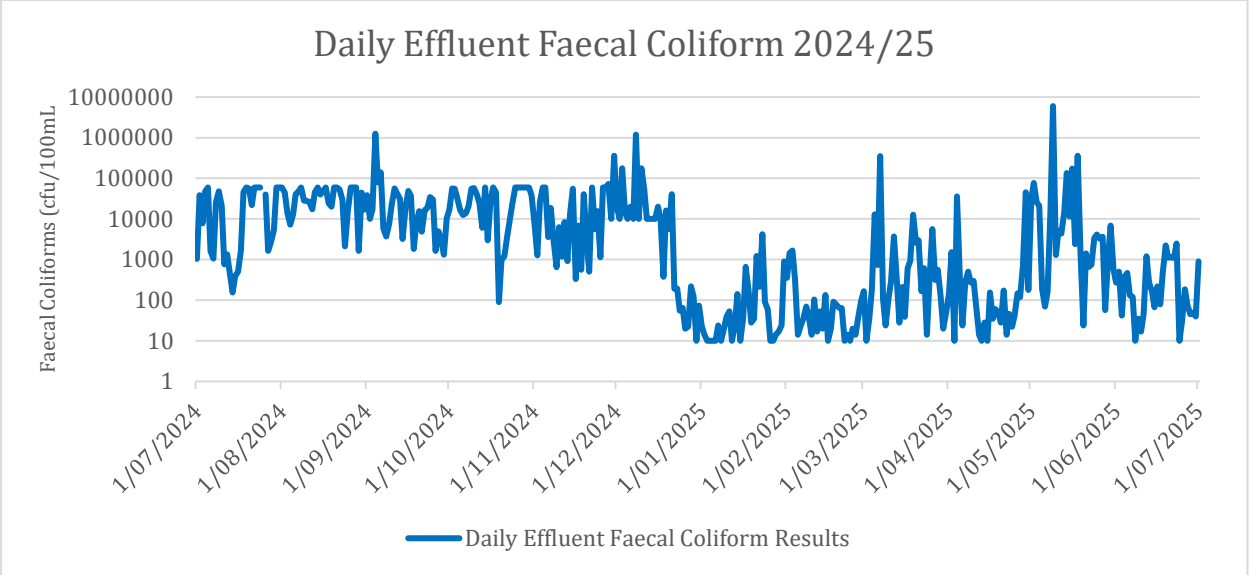
In response to public concern over increased odour, Wellington Water combined the annual Community Liaison Group meeting with a joint session dedicated to the elevated odour complaints where members of the local community could express their concerns and share opinions on the matter. This also gave the project team opportunity to provide assurances and convey their plans to address the issues in both the short and long term. The minutes for this meeting were uploaded on the Wellington Water website. Wellington Water has since committed to keeping the community informed on progress of the projects that concern odour treatment at the plant, on a regular basis.

A number of non-compliance notices were issued GWRC in relation to this condition in the reporting period, these can be found in more detail in Appendix III.

# Appendix I: Daily Effluent Quality Results






It can be noted that the sample threshold for faecal coliforms has been increased to 600,000 cfu/100mL by the laboratory during 2024/25.

BOD

| Day | April 2025 | | | May 2025 | | | June 2025 | | |
|---|---|---|---|---|---|---|---|---|---|
| | Results | 90-Day Geometric Mean | 90-Day 80th Percentile | Results | 90-Day Geometric Mean | 90-Day 80th Percentile | Results | 90-Day Geometric Mean | 90-Day 80th Percentile |
| | g/m³ | g/m³ | g/m³ | g/m³ | g/m³ | g/m³ | g/m³ | g/m³ | g/m³ |
| 1 | 6 | 7 | 9 | 90 | 9 | 13 | 6 | 15 | 32 |
| 2 | 6 | 7 | 9 | 69 | 10 | 14 | 6 | 14 | 32 |
| 3 | 8 | 7 | 8 | 23 | 10 | 14 | 6 | 14 | 32 |
| 4 | 67 | 7 | 9 | 14 | 10 | 14 | 211 | 15 | 33 |
| 5 | 6 | 7 | 9 | 32 | 10 | 15 | 7 | 15 | 33 |
| 6 | 6 | 7 | 8 | 19 | 10 | 17 | 21 | 15 | 33 |
| 7 | 130 | 7 | 9 | 21 | 10 | 17 | 31 | 15 | 33 |
| 8 | 6 | 7 | 9 | 44 | 10 | 19 | 10 | 15 | 33 |
| 9 | 6 | 7 | 9 | 174 | 11 | 19 | 6 | 15 | 33 |
| 10 | 6 | 7 | 9 | 18 | 11 | 19 | 6 | 15 | 33 |
| 11 | 6 | 7 | 9 | 18 | 11 | 19 | 49 | 16 | 38 |
| 12 | 6 | 7 | 9 | 41 | 11 | 19 | 6 | 16 | 38 |
| 13 | 6 | 7 | 9 | 63 | 12 | 19 | 6 | 16 | 38 |
| 14 | 6 | 7 | 9 | 64 | 12 | 20 | 6 | 16 | 38 |
| 15 | 10 | 7 | 9 | 65 | 12 | 21 | 13 | 16 | 38 |
| 16 | 15 | 7 | 10 | 126 | 13 | 21 | 6 | 16 | 38 |
| 17 | 8 | 7 | 9 | 134 | 13 | 23 | 6 | 16 | 38 |
| 18 | 32 | 8 | 10 | 171 | 14 | 25 | 9 | 16 | 38 |
| 19 | 17 | 8 | 10 | 12 | 14 | 25 | 8 | 16 | 38 |
| 20 | 178 | 8 | 10 | 7 | 14 | 25 | 8 | 16 | 38 |
| 21 | 8 | 8 | 10 | 12 | 14 | 25 | 6 | 16 | 38 |
| 22 | 17 | 8 | 10 | 15 | 14 | 25 | 6 | 16 | 38 |
| 23 | 9 | 8 | 10 | 23 | 14 | 25 | 6 | 15 | 38 |
| 24 | 19 | 8 | 10 | 7 | 14 | 25 | 6 | 15 | 38 |
| 25 | 11 | 8 | 10 | 11 | 14 | 25 | 6 | 15 | 38 |
| 26 | 13 | 8 | 11 | 6 | 14 | 25 | 25 | 15 | 38 |
| 27 | 37 | 8 | 11 | 6 | 14 | 25 | 44 | 16 | 42 |
| 28 | 19 | 9 | 12 | 10 | 14 | 25 | 18 | 16 | 42 |
| 29 | 23 | 9 | 13 | 73 | 15 | 32 | 6 | 16 | 42 |
| 30 | 76 | 9 | 13 | 6 | 15 | 32 | 6 | 16 | 42 |
| 31 | | | | 11 | 15 | 32 | | | |
| **Limits** | **N/A** | **50** | **85** | **N/A** | **50** | **85** | **N/A** | **50** | **85** |

## Suspended Solids

| Day | April 2025 | | | May 2025 | | | June 2025 | | |
|---|---|---|---|---|---|---|---|---|---|
| | Results | 90-Day Geometric Mean | 90-Day 80th Percentile | Results | 90-Day Geometric Mean | 90-Day 80th Percentile | Results | 90-Day Geometric Mean | 90-Day 80th Percentile |
| | g/m³ | g/m³ | g/m³ | g/m³ | g/m³ | g/m³ | g/m³ | g/m³ | g/m³ |
| 1 | 13 | 9 | 12 | 215 | 13 | 27 | 6 | 25 | 69 |
| 2 | 10 | 9 | 12 | 130 | 14 | 28 | 13 | 25 | 69 |
| 3 | 6 | 9 | 12 | 43 | 14 | 30 | 7 | 25 | 69 |
| 4 | 253 | 9 | 13 | 29 | 14 | 30 | 452 | 26 | 80 |
| 5 | 6 | 9 | 13 | 66 | 15 | 32 | 13 | 26 | 80 |
| 6 | 10 | 9 | 13 | 27 | 15 | 32 | 21 | 26 | 80 |
| 7 | 119 | 10 | 13 | 49 | 15 | 33 | 58 | 27 | 80 |
| 8 | 12 | 10 | 13 | 235 | 16 | 36 | 19 | 27 | 80 |
| 9 | 9 | 10 | 13 | 317 | 17 | 41 | 7 | 27 | 80 |
| 10 | 8 | 10 | 13 | 28 | 17 | 41 | 7 | 26 | 69 |
| 11 | 3 | 10 | 13 | 32 | 17 | 41 | 122 | 27 | 80 |
| 12 | 7 | 10 | 13 | 93 | 18 | 44 | 70 | 27 | 80 |
| 13 | 7 | 10 | 13 | 130 | 18 | 46 | 26 | 28 | 80 |
| 14 | 10 | 10 | 13 | 146 | 19 | 47 | 5 | 28 | 80 |
| 15 | 9 | 10 | 13 | 134 | 19 | 49 | 24 | 28 | 80 |
| 16 | 9 | 10 | 13 | 320 | 20 | 52 | 6 | 28 | 80 |
| 17 | 13 | 10 | 13 | 409 | 21 | 62 | 9 | 28 | 80 |
| 18 | 77 | 10 | 13 | 313 | 22 | 66 | 6 | 28 | 80 |
| 19 | 67 | 10 | 13 | 16 | 22 | 66 | 6 | 27 | 80 |
| 20 | 501 | 11 | 14 | 12 | 22 | 66 | 11 | 27 | 80 |
| 21 | 20 | 11 | 15 | 40 | 23 | 66 | 6 | 27 | 80 |
| 22 | 33 | 11 | 17 | 21 | 23 | 66 | 6 | 27 | 80 |
| 23 | 22 | 11 | 18 | 40 | 24 | 66 | 6 | 27 | 80 |
| 24 | 15 | 11 | 18 | 7 | 24 | 66 | 6 | 27 | 80 |
| 25 | 29 | 11 | 18 | 19 | 24 | 66 | 6 | 26 | 80 |
| 26 | 32 | 12 | 20 | 6 | 24 | 66 | 75 | 26 | 80 |
| 27 | 61 | 12 | 21 | 6 | 24 | 66 | 121 | 27 | 98 |
| 28 | 40 | 12 | 21 | 26 | 24 | 66 | 68 | 27 | 98 |
| 29 | 46 | 12 | 22 | 214 | 25 | 69 | 8 | 27 | 98 |
| 30 | 649 | 13 | 23 | 6 | 25 | 69 | 13 | 27 | 98 |
| 31 | | | | 23 | 25 | 69 | | | |
| **Limits** | **N/A** | **50** | **85** | **N/A** | **50** | **85** | **N/A** | **50** | **85** |

Faecal coliforms

| Day | April 2025 | | | May 2025 | | | June 2025 | | |
|---|---|---|---|---|---|---|---|---|---|
| | Results | Geometric Mean | 90-Day 80th Percentile | Results | Geometric Mean | 90-Day 80th Percentile | Results | Geometric Mean | 90-Day 80th Percentile |
| | cfu/100mL | cfu/100mL | cfu/100mL | cfu/100mL | cfu/100mL | cfu/100mL | cfu/100mL | cfu/100mL | cfu/100mL |
| 1 | 140 | 92 | 396 | 31000 | 137 | 575 | 272 | 605 | 5242 |
| 2 | 1520 | 97 | 575 | 77460 | 145 | 612 | 500 | 612 | 5242 |
| 3 | 10 | 97 | 575 | 25495 | 150 | 612 | 42 | 574 | 4489 |
| 4 | 35721 | 106 | 612 | 20976 | 154 | 612 | 379 | 570 | 4489 |
| 5 | 351 | 110 | 612 | 185 | 153 | 612 | 465 | 530 | 4191 |
| 6 | 24 | 112 | 612 | 69 | 156 | 612 | 132 | 531 | 4191 |
| 7 | 283 | 115 | 612 | 159 | 159 | 612 | 120 | 540 | 4191 |
| 8 | 500 | 120 | 612 | 15969 | 171 | 630 | 10 | 526 | 4191 |
| 9 | 273 | 123 | 612 | 6000000 | 194 | 703 | 35 | 514 | 4191 |
| 10 | 297 | 126 | 612 | 1285 | 201 | 781 | 17 | 484 | 4191 |
| 11 | 69 | 126 | 612 | 5138 | 215 | 1007 | 45 | 474 | 4191 |
| 12 | 14 | 127 | 612 | 4327 | 224 | 1332 | 1200 | 494 | 4191 |
| 13 | 10 | 126 | 612 | 14491 | 241 | 1734 | 270 | 495 | 4191 |
| 14 | 28 | 123 | 612 | 134164 | 263 | 2665 | 167 | 503 | 4191 |
| 15 | 10 | 123 | 612 | 11402 | 282 | 3100 | 67 | 491 | 4191 |
| 16 | 155 | 125 | 612 | 173205 | 306 | 3807 | 219 | 483 | 4191 |
| 17 | 35 | 121 | 575 | 2400 | 325 | 3807 | 79 | 457 | 3738 |
| 18 | 60 | 120 | 575 | 357771 | 362 | 4489 | 481 | 448 | 3738 |
| 19 | 49 | 121 | 575 | 1349 | 373 | 4489 | 2245 | 447 | 3738 |
| 20 | 28 | 120 | 575 | 24 | 369 | 4489 | 1122 | 457 | 3738 |
| 21 | 171 | 118 | 513 | 1428 | 382 | 4489 | 1140 | 460 | 3738 |
| 22 | 14 | 114 | 513 | 663 | 392 | 4489 | 1095 | 483 | 3738 |
| 23 | 46 | 109 | 383 | 748 | 411 | 4489 | 2492 | 494 | 3738 |
| 24 | 22 | 107 | 383 | 3376 | 437 | 4489 | 10 | 460 | 3428 |
| 25 | 42 | 107 | 383 | 4157 | 467 | 4489 | 30 | 449 | 3428 |
| 26 | 147 | 110 | 383 | 3286 | 494 | 4489 | 184 | 443 | 3428 |
| 27 | 118 | 113 | 383 | 3633 | 526 | 4489 | 75 | 441 | 3428 |
| 28 | 693 | 118 | 513 | 57 | 528 | 4489 | 45 | 445 | 3428 |
| 29 | 45695 | 129 | 575 | 1122 | 542 | 4489 | 49 | 445 | 3428 |
| 30 | 179 | 132 | 575 | 6928 | 565 | 5242 | 40 | 438 | 3428 |
| 31 | | | | 566 | 591 | 5242 | | | |
| **Limits** | **N/A** | **1000** | **5000** | **N/A** | **1000** | **5000** | **N/A** | **1000** | **5000** |

# Appendix II: Inflow and Infiltration Report

# Condition (19)

> The permit holder shall take reasonable steps to investigate ways and means of minimizing infiltration and stormwater ingress into the sewerage system and provide the Manager, Environmental Regulation, Wellington Regional Council, with an annual report by 31 July on progress.

# Inflow and Infiltration Report

A variety of mitigation measures have been undertaken to reduce Inflow and Infiltration (I&I) and to contain wastewater within the reticulated wastewater network. This work aims to reduce the demand on the Seaview Wastewater Treatment Plant (WWTP) and to also improve waterway health. The catchment for Seaview WWTP includes both Hutt City Council (HCC) and Upper Hutt City Council (UHCC) areas. Details of works undertaken have been provided below for each council area.

# Hutt City Council and Upper Hutt City Council

## Inflow Surveys

Inflow survey work carried out in the Hutt Valley during 2024–2025 was initiated primarily in response to persistently high levels of Escherichia coli (E. coli) detected in several local waterways, including the Waiwhetu Stream, Percy Stream, Black Creek, and the Hutt River. These elevated contamination levels raised public health concerns and signalled potential pollution from human waste sources. As part of the response, detailed inspections were undertaken to identify cross-contamination points where wastewater from the sewer network may have been improperly entering the stormwater system.

Through these inspections the faults identified ranging from broken pipes and illegal connections to aging infrastructure—on both public and private property. Each identified issue followed a remediation process appropriate to its location and ownership, ensuring corrective action was taken to eliminate the sources of contamination. This work involved coordination between local councils, utility providers, and affected property owners.

The map below highlights in yellow the specific areas within the Hutt Valley where these inflow surveys were conducted over the 2024–2025 period. These targeted zones were selected based on monitoring data, historical problem areas, and environmental risk assessments to ensure the most efficient and impactful use of resources.

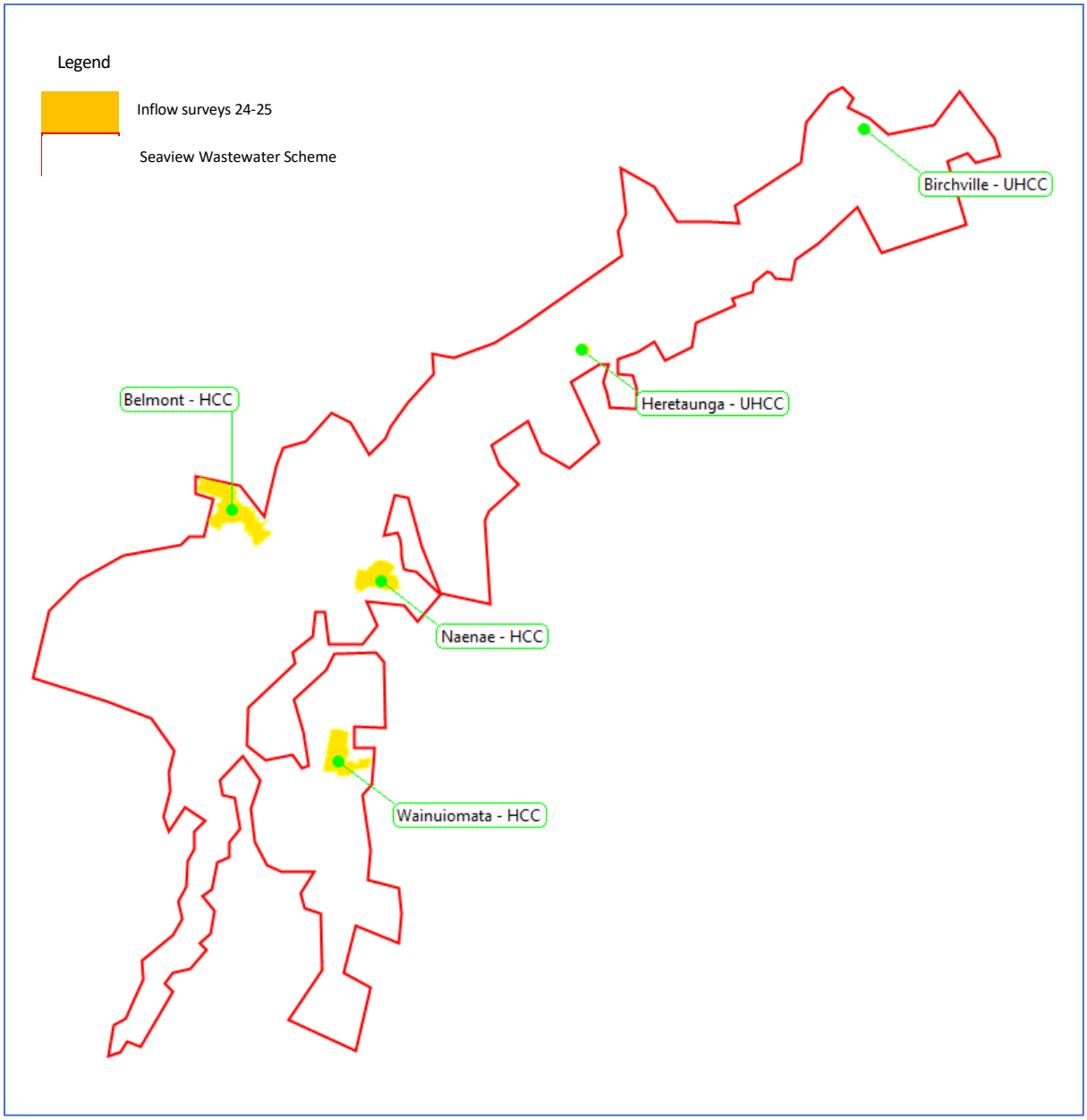



*Figure 1 - Inflow Survey Project Locations for Seaview WWTP catchment*

## Flow Monitoring and Rain Gauge Monitoring

There are 13 flow and 8 overflow monitoring sites and one site which measures both within Hutt City and Upper Hutt City catchment area. Figure 2 below shows the monitoring sites managed under the long-term monitoring contract and from the SCADA system.

Another 17 rainfall gauges are located across the Hutt Valley catchment, monitoring data is used to understand network performance during rainfall and the extent of inflow and infiltration in various catchments where possible. This data also enables the investigation of network issues and the maintenance of hydraulic models.

*Table 1 - Monitors of the network*

| Sensor ID | Location | Type | Purpose |
|---|---|---|---|
| HEATH | 9 Heath Street | State | Overflow monitoring |
| HYDELTOF | 29 Hyde Street | State | Overflow monitoring |
| HCC_RG_01 | 10 Haywards Hill Road, Lower Hutt | Rain Gauge | Rainfall monitoring |
| UHCC_RG_01 | 32 Ronald Scott Grove, Upper Hutt | Rain Gauge | Rainfall monitoring |
| UHCC_RG_02 | 29 Logan Street, Upper Hutt | Rain Gauge | Rainfall monitoring |
| UHCC_RG_03 | 1160 Maymorn Road, Upper Hutt | Rain Gauge | Rainfall monitoring |
| UHCC_RG_04 | 42 Wyndham Road, Upper Hutt | Rain Gauge | Rainfall monitoring |
| Akatarawa River at Cemetery | 1029C Akatarawa Road, Upper Hutt | Rain Gauge | Rainfall monitoring |
| Hutt River at Birch | 210 Knights Road, Lower Hutt | Rain Gauge | Rainfall monitoring |
| Hutt River at Kaitoke | Kaitoke Headworks | Rain Gauge | Rainfall monitoring |
| HCC_RG_03 | 4/66 Mabey Road, Lower Hutt | Rain Gauge | Rainfall monitoring |
| HCC_RG_02 | 2/2A Udy Street, Lower Hutt | Rain Gauge | Rainfall monitoring |
| Hutt River at Shandon Golf | Shandon Golf Club | Rain Gauge | Rainfall monitoring |
| Hutt River at Te | Te Marua | Rain Gauge | Rainfall monitoring |
| Korokoro Stream at Belmont | Belmont Trig | Rain Gauge | Rainfall monitoring |
| Mangaroa River at Tasman Vaccine | Tasman Vaccine Limited | Rain Gauge | Rainfall monitoring |
| HCC_RG_04 | 15 Wareham Place, Lower Hutt | Rain Gauge | Rainfall monitoring |
| Whakatikei River at Blue Gum | Blue Gum Sput | Rain Gauge | Rainfall monitoring |
| Wainuimata River at Wainui | 3 Reservoir Road, Lower Hutt | Rain Gauge | Rainfall monitoring |
| FRASER | 54 Fraser Street | Level / | Overflow monitoring |
| MAIN | 1 Stanley Street | Level / | Overflow monitoring |
| ROWE | 21 Rowe Parade | Level / | Overflow monitoring |
| Rossiter | 53 Rossiter Avenue | Level / | Overflow monitoring |
| Black Creek | 95 Main Road | Level / | Overflow monitoring |
| WILLOWGROVE | WILLOW Grove | Level / | Overflow monitoring |
| PARENGA | 110 Wood Street | HVQ | Flow monitoring |
| East0095 | 410 Eastern Hutt Road | HVQ | Flow monitoring |
| COUNTYLANE | County Lane | HVQ | Flow monitoring |
| FERGUSSONDRIV | Fergusson Drive | HVQ | Flow monitoring |
| HCC_WW000029 | 434 EASTERN HUTT ROAD | HVQ | Flow monitoring |
| Melling DFM | 26 BLUE MOUNTAINS ROAD | HVQ | Flow monitoring |
| HCC_WW007080 | 94 Wakefield Street | HVQ | Flow monitoring |
| SEDDON | 8 Seddon Street | HVQ | Flow monitoring |
| Mason Street | 163 Randwick Road | HVQ | Flow monitoring |
| BLOCKRD | Block Road | HVQ | Flow monitoring |
| 558MAINRD | 558 Main Road | HVQ | Flow monitoring |

| | | | |
|---|---|---|---|
| RANDWICKCRES | Randwick Crescent | HVQ | Flow monitoring |
| 124RANDWICK | 124 Randwick | HVQ | Flow monitoring |

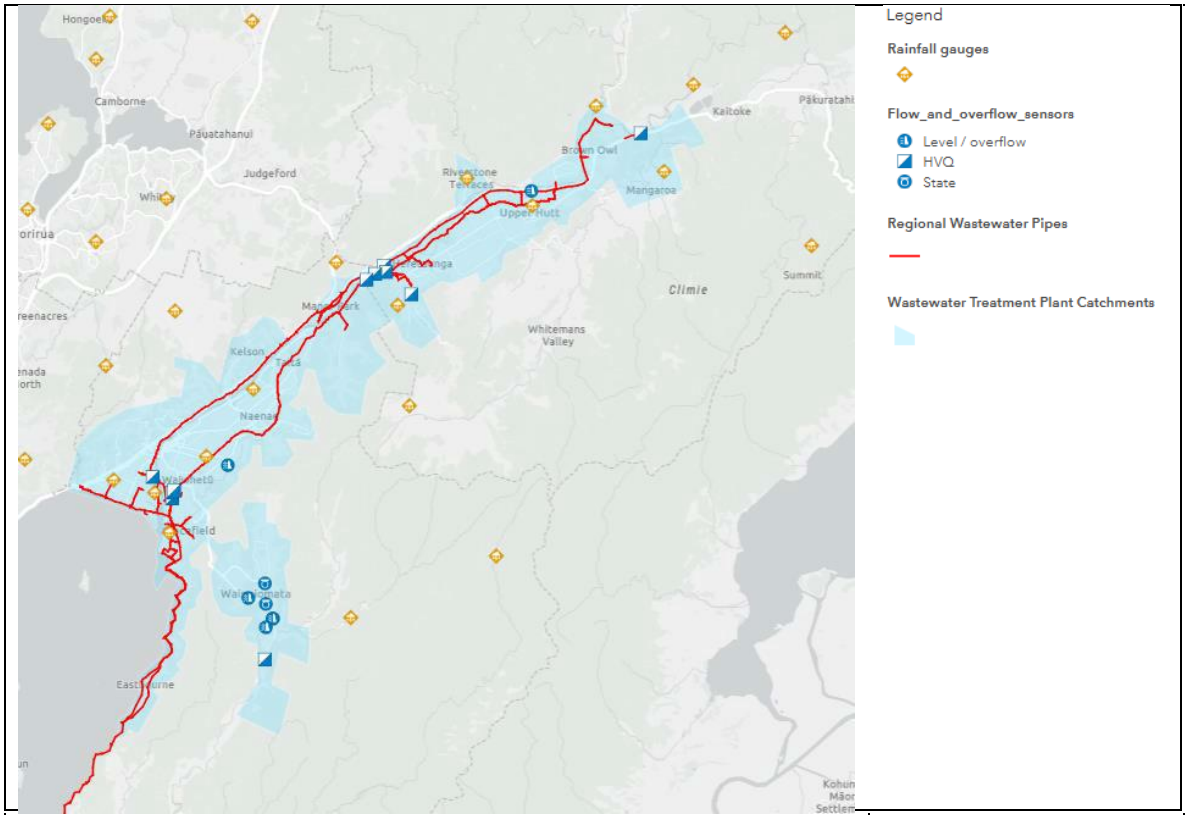



*Figure 2- Monitors location Seaview catchment*

## Condition Assessments

Condition Assessment involves using closed-circuit television (CCTV) footage or other inspection techniques of pipe networks to identify faults, determine the condition of assets, and inform repair and renewal programs.

Condition assessments completed as of June 2025 are shown in Figure 3 below. The primary inspection techniques were CCTV and laser profiling for wastewater pipes and CCTV for stormwater pipe assets. The inspection was driven primarily by proactive approach to monitor the current status of the critical and the second driver were areas with operational issues related to uncontrolled wet weather sewer overflows.

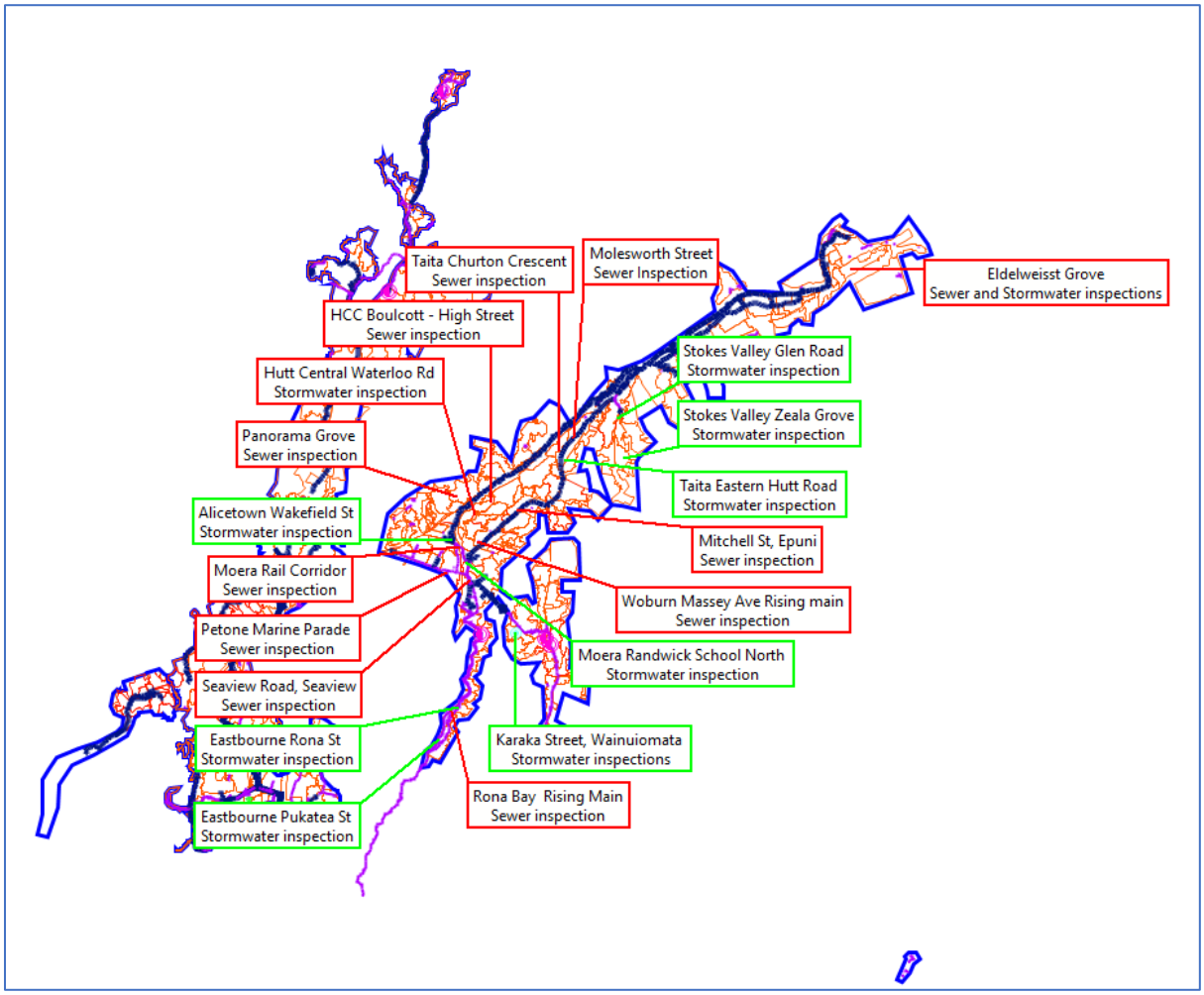



*Figure 3 - Map of CCTV of UHCC and HCC Wastewater and Stormwater Mains undertaken as of June 2024*

## Wastewater Modelling

The Hutt Valley model was recently calibrated and is in the final stages of system performance. The Wainuiomata Catchment Model was also updated in 2020. The integrated trunk model which incorporates both HCC and UHCC Trunk Networks has also recently been updated.

## Stormwater and Wastewater Capital Projects

The following figure provides an overview of key wastewater and stormwater capital works undertaken during the 2024–2025 period. The primary project was the remediation of the Western Trunk—an essential component of the Hutt Valley sewer network—along with proactive repairs to the Hutt Valley Trunk along Fergusson Drive.

Additional renewal works were carried out across the local network to enhance system reliability and reduce inflow and infiltration.

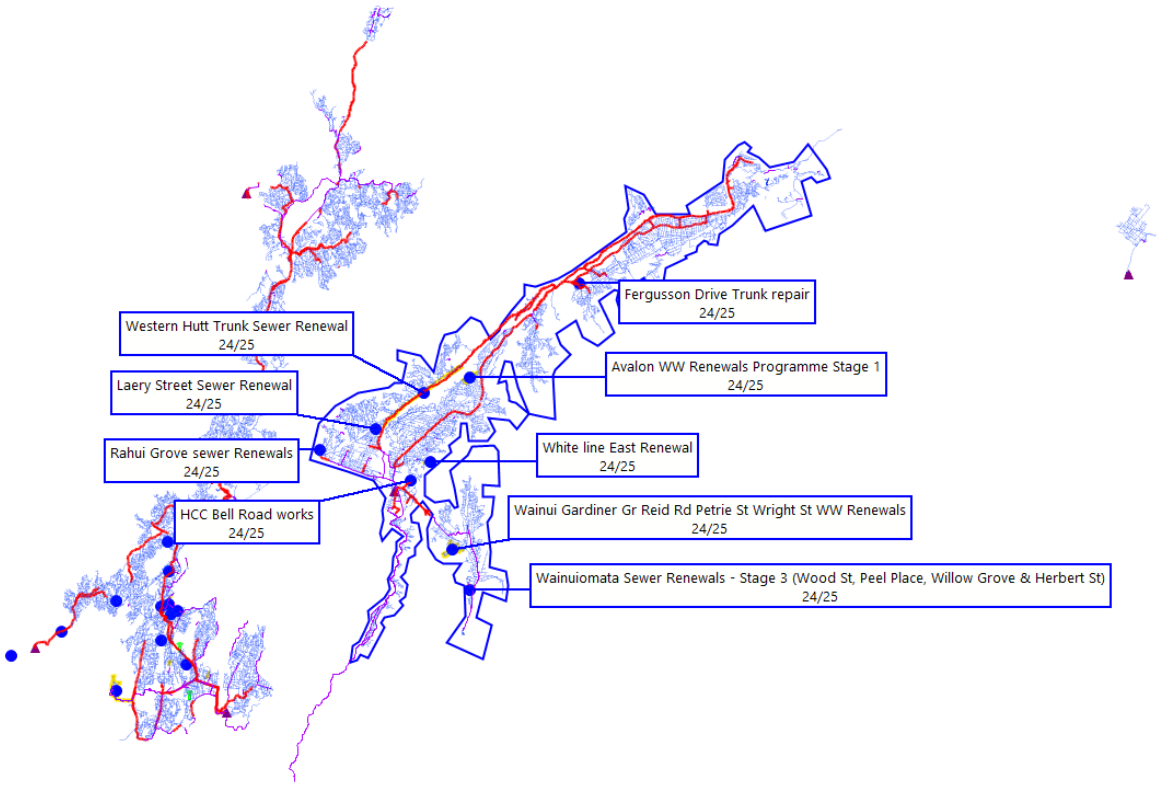



*Figure 4-Capital projects delivered 24-25*

# Appendix III: Record of Non-compliance notices issued

| Facility | Date issued | Non-compliance Notice | Description |
|---|---|---|---|
| Seaview WWTP | 15/08/2024 | Abatement Notice | Abatement Notice A1108 |
| Seaview WWTP | 17/09/2024 | Please explain | Please Explain Letter questing for an explanation in relation to an investigation into Unconsented Discharge of Treated Wastewater to Waiwhetu Stream on 15 September 2024 |
| Seaview WWTP | 26/09/2024 | Please explain | Please explain email : Amanda requested answers to some of the questions following numerous odour complaints at SWWTP on 25/09/2024 |
| Seaview WWTP | 11/10/2024 | Please explain | GWRC Issued a PX letter requesting explanation in relation to an investigation into offensive and objectionable odour from Seaview WWTP beyond the boundary between 02 September 2024 and 09 October 2024 - Ref > WGN050162 |
| Seaview WWTP | 15/10/2024 | Abatement Notice | Abatement Notice A1111 |
| Seaview WWTP | 12/11/2024 | Infringement Notice | **Infringement Notice I1112 -Issued to WWL only** GWRC issued 1 infringement notice for breaching Abatement Notice A1108 by not providing the updated EMP for certification by 01/11/2024 |
| Seaview WWTP | 3/04/2025 | Infringement Notice | Infringement Notice I1135 for the breach of Section 15(1)(a) of the RMA |
| Seaview WWTP | 3/04/2025 | Infringement Notice | Infringement Notice I1136 for breach of Abatement Notice A1026 |
| Seaview WWTP | 4/04/2025 | Please explain | PX letter requesting for an explanation in relation to an investigation into offensive and objectionable odour from Seaview WWTP beyond the boundary |

# Appendix IV. Trade Waste Report

# Appendix V: Seaview Wastewater Treatment Plant Assessment of Effects of Overflow Discharges to Waiwhetu Stream

# Appendix VI: Seaview Wastewater Treatment Plant Assessment of Effects of Non-Compliant Wastewater Discharges 2024/25