

Annual Report

# **Ocean Outfall, CRC051724 CWTP**

1 July 2024 – 30 June 2025

## Contents

|                                                                                                               |                                     |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Introduction.....                                                                                             | 3                                   |
| Quarterly reporting.....                                                                                      | 3                                   |
| 1. Resource Consent Conditions .....                                                                          | 4                                   |
| 1.1 Outfall pipe final discharge and maintenance .....                                                        | 4                                   |
| Table 1.1.1 Pond Discharge Consent Condition Compliance for Monitoring Period 1 July 2024 – 30 June 2025..... | 4                                   |
| Figure 1.1.2 - Daily Outfall Flow Totals 1 Jul 2024 – 30 Jun 2025 .....                                       | 5                                   |
| Figure 1.1.3 - Daily Peak Outfall Flows 1 Jul 2024 - 30 Jun 2025.....                                         | 5                                   |
| 1.1.4 Comments on Resource Consent Conditions.....                                                            | 5                                   |
| Figure 4 – June 2024 Hydraulic Pressure Test Curve .....                                                      | <b>Error! Bookmark not defined.</b> |
| 1.3 Resource Consent Standard Sample Results .....                                                            | 6                                   |
| Table 1.3.1 Contaminant Limits Consent Compliance .....                                                       | 6                                   |
| 1.3.2 Comments on Resource Consent Standard Conditions.....                                                   | 6                                   |
| 1.4 Dissolved BOD5 Compliance .....                                                                           | 7                                   |
| Table 1.4.1 Ocean Outfall Discharge Dissolved BOD <sub>5</sub> .....                                          | 7                                   |
| 1.4.2 Ocean Outfall Discharge - Dissolved BOD <sub>5</sub> .....                                              | 7                                   |
| 1.5 Total Suspended Solids Compliance.....                                                                    | 8                                   |
| Table 1.5.4 Ocean Outfall Discharge Total Suspended Solids.....                                               | 8                                   |
| 1.5.5 Ocean Outfall Discharge Total Suspended Solids .....                                                    | 8                                   |
| 1.6 Ammonia Nitrogen Compliance.....                                                                          | 9                                   |
| Table 1.6.6 Ocean Outfall Discharge Ammoniacal Nitrogen.....                                                  | 9                                   |
| 1.6.2 Ocean Outfall Discharge Ammoniacal Nitrogen .....                                                       | 9                                   |
| 1.7 Enterococci Monitoring.....                                                                               | 10                                  |
| Table 1.7.1 Ocean Outfall Discharge Enterococci .....                                                         | 10                                  |
| 1.7.2 Ocean Outfall Discharge Enterococci.....                                                                | 10                                  |
| 1.8 Faecal Coliform Compliance .....                                                                          | 11                                  |
| Table 1.8.8 Ocean Outfall Discharge Faecal Coliforms.....                                                     | 11                                  |
| 1.8.2 Ocean Outfall Discharge Faecal Coliforms .....                                                          | 11                                  |
| 1.9 Other Pathogenic and Other Contaminants.....                                                              | 12                                  |
| 2. Receiving Environment Monitoring in Pegasus Bay.....                                                       | 13                                  |
| 2.1 Water Quality Resource Consent Conditions.....                                                            | 13                                  |
| Table 2.1.1 Weekly Sampling Beach Water Quality Compliance July 2024 – June 2025 .....                        | 13                                  |
| Table 2.2.3 Receiving Environment Ocean Water Quality Compliance July 2024 – June 2025 .....                  | 14                                  |
| 2.2 Beach Water Quality Analysis Results .....                                                                | 15                                  |

2.2.1 Enterococci Levels at New Brighton Surf Club .....15

2.2.2 Faecal Coliform Levels at New Brighton Surf Club .....16

2.2.3 Enterococci Levels at Sumner Beach .....16

2.3 Other Receiving Environment Analysis .....19

2.4 Comments on other conditions .....20

# Introduction

This report summarises the results of parameters monitored by the Christchurch Wastewater Treatment Plant (CWTP) Ocean Outfall over the period 1 July 2024 – 30 June 2025, in accordance with consent **CRC051724**. This consent authorises the discharge of treated wastewater from the CWTP Oxidation Ponds into the Pegasus Bay Coastal Marine Area via an ocean outfall.

The trickling filters at CWTP were destroyed by a fire which broke out on the 1<sup>st</sup> of November 2021. The trickling filters were a key component of the secondary treatment process at the CWTP, where they had been in operation since early 1978 and were responsible for removing around 60% of the organic matter from the sewage inflow. The plastic filter media provided an ideal environment for bacterial slime to grow and as it grew, it consumed the nutrients in the wastewater. As more flow was pumped into the trickling filters, excess slime was washed off as a floating solid and resulted in removal of up to 95% of BOD and ammonia.

## Quarterly reporting

During the quarterly catch up meeting on 26/06/2025 we identified that there was a disconnect between the period covered by the Annual Reports vs the quarterly reports in the text of CRC051724.

- The quarterly report schedule has been based on the date that CRC051724 commenced in May 2006 (reporting periods of May to July, August to October, November to January, and February to April with Quarterly reports due a month later)
- To streamline these dates and avoid confusion, we have agreed with ECAN to change this schedule to align with the annual report, now that the consent is in full swing.

A report covering the two months difference (May and June 2025) between these schedules, was submitted to match bring the quarterly reports to the annual report schedule.

Going forwards, the quarters will be:

- Q1 – 1 July to 30 September
- Q2 – 1 October to 30 December
- Q3 – 1 January to 31 March
- Q4 – 1 April to 30 June

# 1. Resource Consent Conditions

## 1.1 Outfall pipe final discharge and maintenance

Table 1.1.1 Pond Discharge Consent Condition Compliance for Monitoring Period 1  
July 2024 – 30 June 2025

| Consent Condition | Parameter                         | Condition Detail                                                   | Condition Timeframe | Comments                                                            | Overall |
|-------------------|-----------------------------------|--------------------------------------------------------------------|---------------------|---------------------------------------------------------------------|---------|
| 2                 | Discharge Content                 | Discharge is only wastewater from the CWTP ponds                   | Continuous          | Discharge is all and only from the CWTP ponds                       | 😊       |
| 3                 | Discharge Volume                  | Recorded                                                           | Continuous          | See figures 1.2.1 and 1.2.2                                         | 😊       |
| 4                 | Discharge Rate                    | Recorded                                                           | Continuous          | See figures 1.2.1 and 1.2.2                                         | 😊       |
| 9                 | Outfall Maintenance               | Routine maintenance of the discharge system completed and recorded | Continuous          | Discharge system is the pump station, pipeline and diffuser outlets | 😊       |
| 10                | Outfall Condition                 | Visual inspection of outfall                                       | Five yearly         | Completed in March 2021, next due in 2026                           | 😊       |
| 12                | Pumping Pressure for a given flow | Monitored at the pump station                                      | Continuous          | See figure 1.2.3                                                    | 😊       |

Key: 😊 Full Compliance    😐 Minor, Isolated or Risk of Non-Compliance    😞 Major or Consistent Non-Compliance

Figure 1.1.2 - Daily Outfall Flow Totals 1 Jul 2024 – 30 Jun 2025

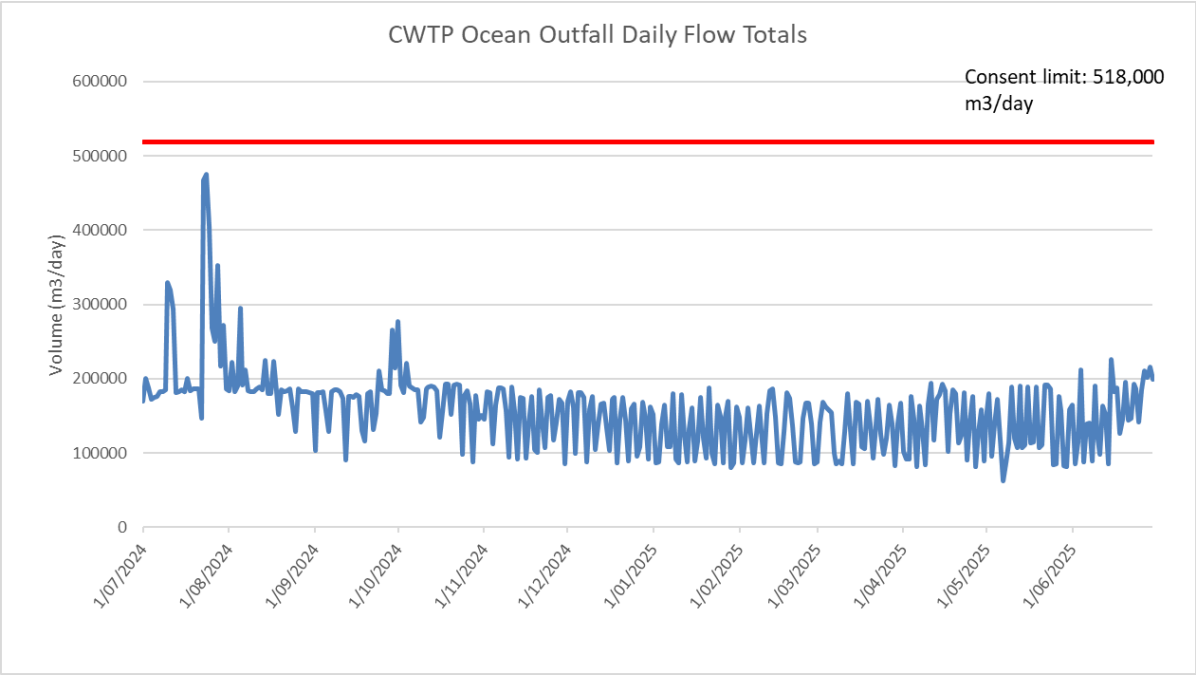
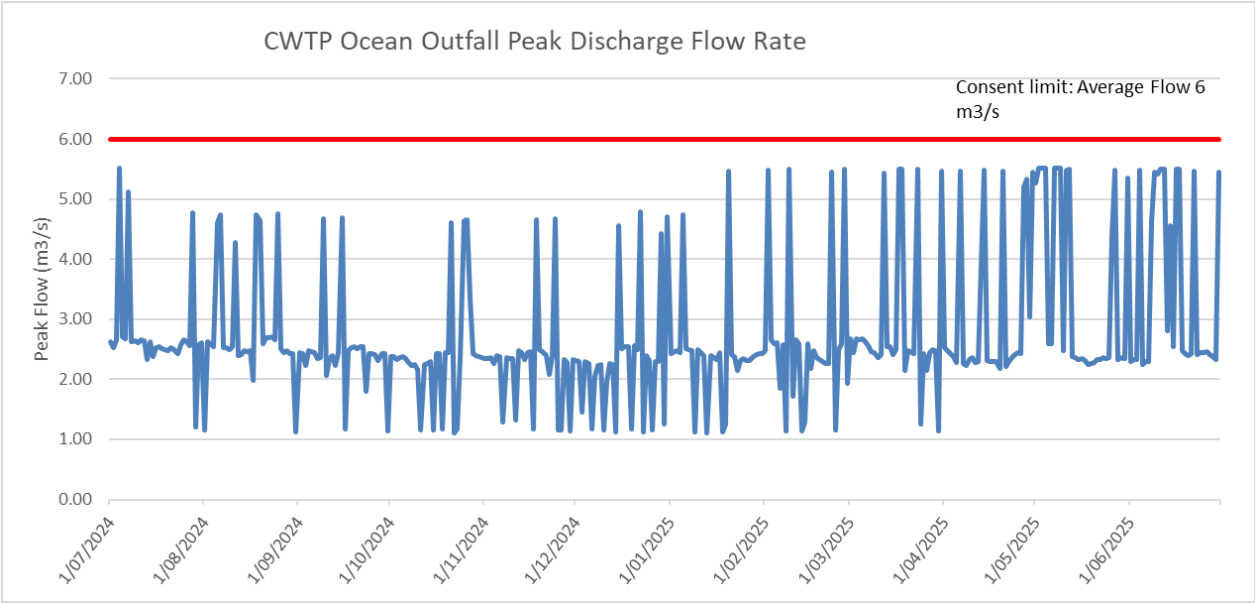


Figure 1.1.3 - Daily Peak Outfall Flows 1 Jul 2024 - 30 Jun 2025



1.1.4 Comments on Resource Consent Conditions

The ocean outfall pump station has a designed flow rate that is below the peak limit of 6 m³/s. The outfall pipe is sloped down so there is continuous gravity flow. When this flow rate needs to be increased to manage the level of water in the maturation ponds, the pumps are turned on which creates the spikes you can see in the chart.

## 1.3 Resource Consent Standard Sample Results

Conditions 15a and 16a have notification limits which are triggered when more than 16 values in a rolling six month period exceed the standards for each of the named contaminants.

**Table 1.3.1 Contaminant Limits Consent Compliance**

| Consent Condition | Parameter                  | Condition Description                             | July & August 24 | Sept and Oct 24 | Nov and Dec 24 | Jan & Feb 25 | March & April 25 | May & June 25 | Overall |
|-------------------|----------------------------|---------------------------------------------------|------------------|-----------------|----------------|--------------|------------------|---------------|---------|
| 15a               | Dissolved BOD <sub>5</sub> | Concentration does not exceed 20 g/m <sup>3</sup> | 😊                | 😊               | 😊              | 😊            | 😊                | 😊             | 😊       |
|                   | Total Suspended Solids     | Concentration does not exceed 50 g/m <sup>3</sup> | 😊                | 😊               | 😊              | 😞            | 😞                | 😊             | 😊       |
|                   | Ammoniacal Nitrogen        | Concentration does not exceed 40 g/m <sup>3</sup> | 😊                | 😊               | 😊              | 😊            | 😊                | 😊             | 😊       |

**Key:** 😊 0 to 2 Exceedances of Standard 😞 3 to 7 Exceedances of Standard 😡 Notification to ECAN required

- Based on the weekly sampling required by Condition 13 of this consent, and taken over a rolling six month period, no more than 16 values in each six named month period shall exceed the following standards for each of the named contaminants:
- In the event that seven values from eight consecutive samples, taken over each eight week period commencing on the first days of January, March, May, July, September, and November of each year during the term of the consent, exceed the standard values, for BOD<sub>5</sub> (filtered), total suspended solids and ammoniacal nitrogen, the consent holder shall notify the Canterbury Regional Council within 48 hours of the exceedance

| Consent Condition | Parameter        | Condition Description                         | July & August 24 | Sept and Oct 24 | Nov and Dec 24 | Jan & Feb 25 | March & April 25 | May & June 25 | Overall |
|-------------------|------------------|-----------------------------------------------|------------------|-----------------|----------------|--------------|------------------|---------------|---------|
| 16a               | Faecal Coliforms | Concentration does not exceed 1,000(standard) | 😊                | 😊               | 😊              | 😊            | 😊                | 😞             | 😊       |
|                   |                  | 5,000(higher) MPN/100mL                       | 😊                | 😊               | 😊              | 😊            | 😊                | 😞             | 😊       |
|                   | Enterococci      | Concentration does not exceed 1,500 MPN/100mL | 😊                | 😊               | 😊              | 😊            | 😊                | 😞             | 😊       |

**Key:** 😊 0 Exceedances of Standard 😞 1 to 2 Exceedances of Standard 😡 Notification to ECAN required

- Based on the weekly sampling required by Condition 13 of this consent, and taken over each eight week period commencing on the first days of January, March, May, July, September and November of each year during the term of this consent, no more than six values from eight consecutive samples shall exceed the 'Standard Values' and no more than two values from eight consecutive samples shall exceed the 'Higher Values' for faecal coliforms.
- Based on the weekly sampling required by condition 13 of this consent, in the event that the concentration of enterococci in two consecutive samples exceeds 1500 enterococci per 100 millilitres the consent holder shall notify the Canterbury Regional Council and the Medical Officer of Health for Canterbury within 48 hours of detection of this exceedance.

### 1.3.2 Comments on Resource Consent Standard Conditions

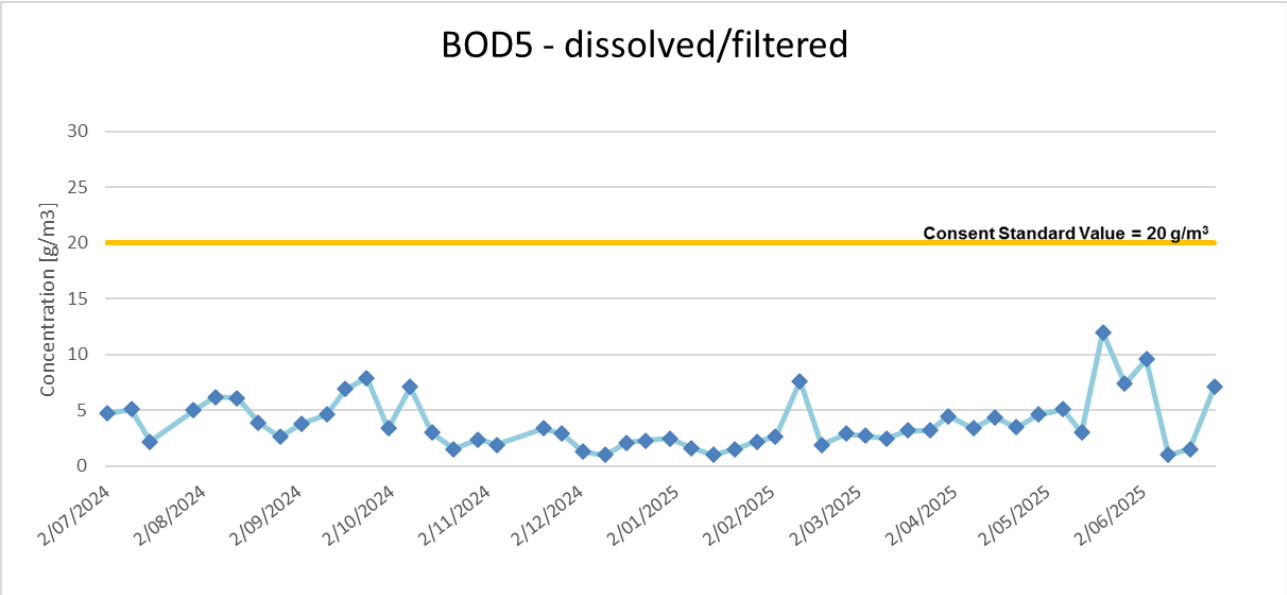
Water quality deteriorated after the total loss of the two trickling filters in the fire of November 2021. In August 2022 a temporary activated sludge plant was brought online and this had a positive effect on the water quality standard.

## 1.4 Dissolved BOD5 Compliance

Table 1.4.1 Ocean Outfall Discharge Dissolved BOD<sub>5</sub>

|                                                                                        |     |                                                                             |   |
|----------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------|---|
| Median Value [g/m <sup>3</sup> ] Current Monitoring Period<br>(July 2024 - June 2025)  | 3.2 | Number of Exceedances Current Monitoring Period<br>(July 2024 - June 2025)  | 0 |
| Median Value [g/m <sup>3</sup> ] Previous Monitoring Period<br>(July 2023 - June 2024) | 2.2 | Number of Exceedances Previous Monitoring Period<br>(July 2023 - June 2024) | 0 |

### 1.4.2 Ocean Outfall Discharge - Dissolved BOD<sub>5</sub>

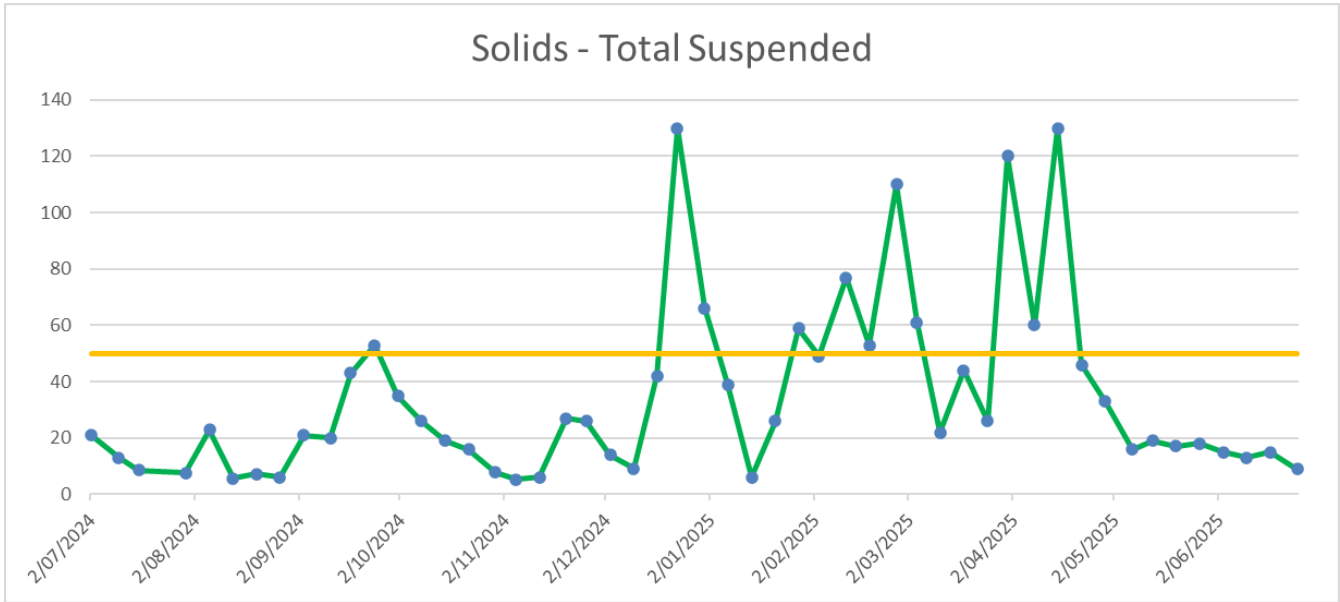


# 1.5 Total Suspended Solids Compliance

Table 1.5.1 Ocean Outfall Discharge Total Suspended Solids

|                                                                                        |      |                                                                             |    |
|----------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------|----|
| Median Value [g/m <sup>3</sup> ] Current Monitoring Period<br>(July 2024 - June 2025)  | 22   | Number of Exceedances Current Monitoring Period<br>(July 2024 - June 2025)  | 11 |
| Median Value [g/m <sup>3</sup> ] Previous Monitoring Period<br>(July 2023 - June 2024) | 12.5 | Number of Exceedances Previous Monitoring Period<br>(July 2023 - June 2024) | 0  |

## 1.5.2 Ocean Outfall Discharge Total Suspended Solids



*Comment on TSS: Growing population of algae in Oxidation ponds is helping to introduce dissolved oxygen to the ponds. However, their presence can negatively affect levels of total suspended solids, especially in summer months.*

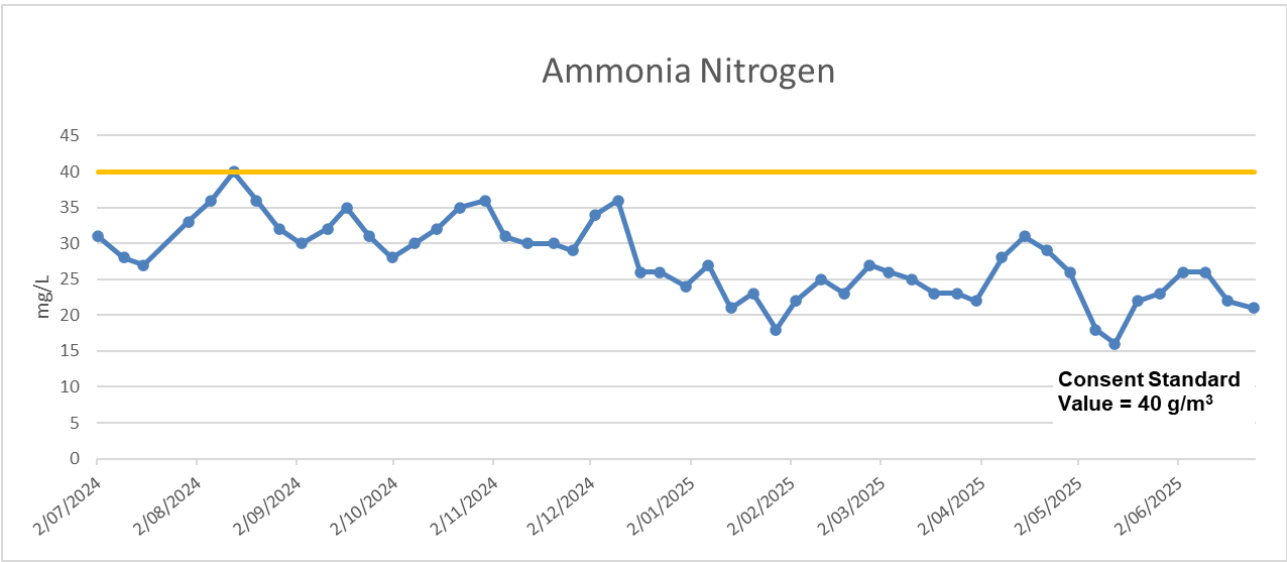
# 1.6 Ammonia Nitrogen Compliance

Table 1.6.1 Ocean Outfall Discharge Ammoniacal Nitrogen

|                                                                                        |    |                                                                             |   |
|----------------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------|---|
| Median Value [g/m <sup>3</sup> ] Current Monitoring Period<br>(July 2024 - June 2025)  | 27 | Number of Exceedances Current Monitoring Period<br>(July 2024 - June 2025)  | 0 |
| Median Value [g/m <sup>3</sup> ] Previous Monitoring Period<br>(July 2023 - June 2024) | 30 | Number of Exceedances Previous Monitoring Period<br>(July 2023 - June 2024) | 0 |

There was zero values exceeding 40g/m3 recorded for current year.

## 1.6.2 Ocean Outfall Discharge Ammoniacal Nitrogen



# 1.7 Enterococci Monitoring

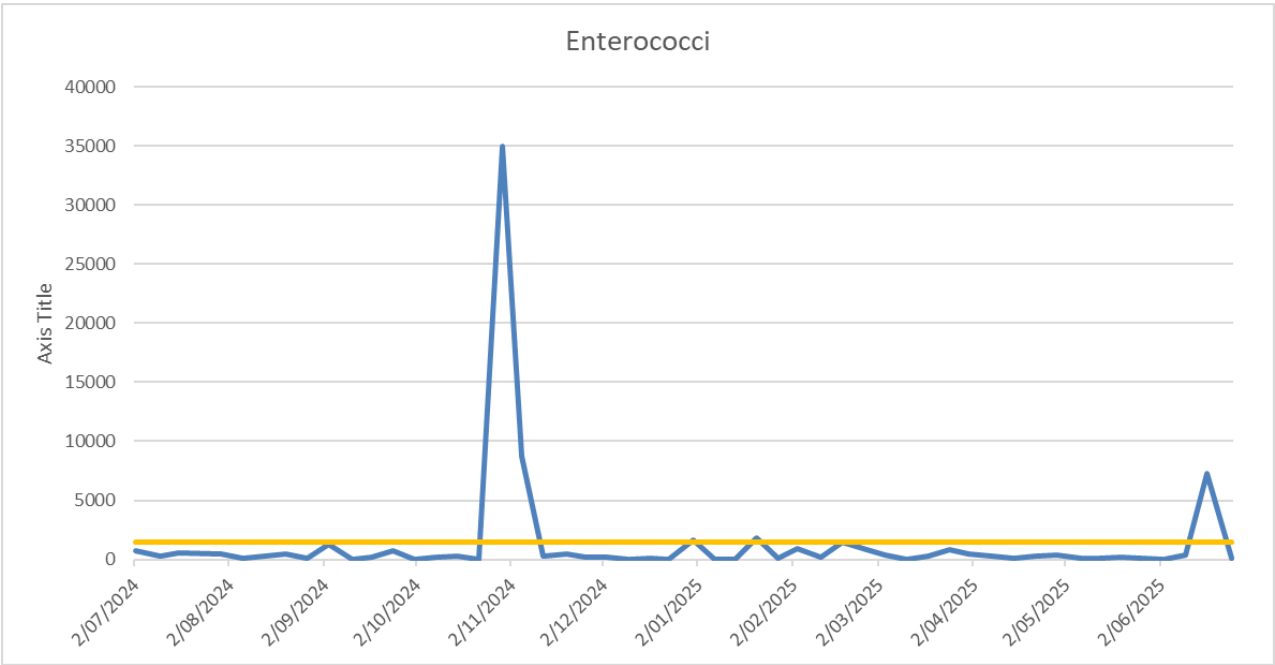
Table 1.7.1 Ocean Outfall Discharge Enterococci

|                                                                             |     |                                                                          |        |
|-----------------------------------------------------------------------------|-----|--------------------------------------------------------------------------|--------|
| Median Value [MPN/100ml] Current Monitoring Period (July 2024 - June 2025)  | 265 | Number of Exceedances Current Monitoring Period (July 2024 - June 2025)  | 1 (5?) |
| Median Value [MPN/100ml] Previous Monitoring Period (July 2023 - June 2024) | 110 | Number of Exceedances Previous Monitoring Period (July 2023 - June 2024) | 2      |

There was 1 exceedance of the standard consent value (1,500 MPN/100mL) in the current year.

*Comment on Faecal coliform and enterococci: Seasonal pond turnover is naturally common in oxidation ponds during autumn when the weather changes. CWTP has experienced this year the turnover to be more significant than usual due to accumulation of sludge after clarifier seal repair in March 2024. Seasonal heavy rain during late autumn and winter period causes short circuiting in oxidation ponds. Lower intensity of UV light in combination with the higher flow causes occasional faecal coliform exceedances.*

## 1.7.2 Ocean Outfall Discharge Enterococci



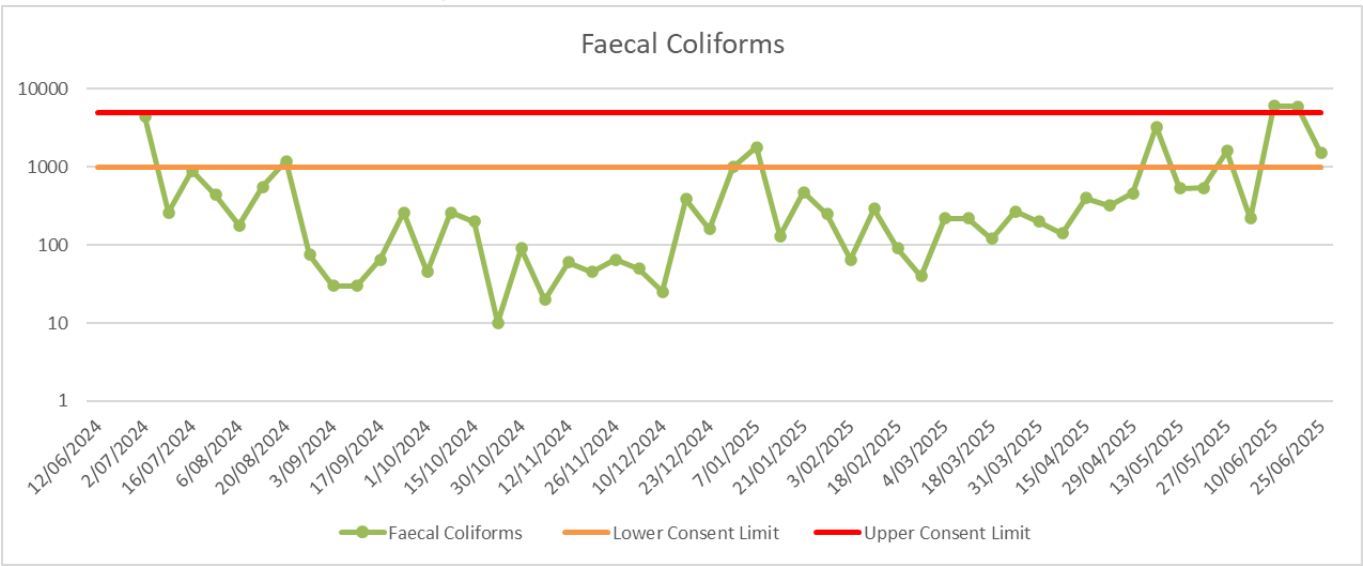
# 1.8 Faecal Coliform Compliance

Table 1.8.1 Ocean Outfall Discharge Faecal Coliforms

|                                                                             |     |                                                                          |   |
|-----------------------------------------------------------------------------|-----|--------------------------------------------------------------------------|---|
| Median Value [MPN/100ml] Current Monitoring Period (July 2024 - June 2025)  | 170 | Number of Exceedances Current Monitoring Period (July 2024 - June 2025)  | 9 |
| Median Value [MPN/100ml] Previous Monitoring Period (July 2023 - June 2024) | 170 | Number of Exceedances Previous Monitoring Period (July 2023 - June 2024) | 9 |

There were 9 sample results above the standard consent limit of 1000CFU/100mL, with 2 of those also above the higher consent limit of 5000CFU/100mL. The median for this year is lower than the previous period.

## 1.8.2 Ocean Outfall Discharge Faecal Coliforms



## 1.9 Other Pathogenic and Other Contaminants

### Condition 13e – Annual Pathogen Monitoring of Ocean Outfall

|           | Enterovirus<br>Ox Ponds | Adenovirus<br>Ox Ponds | Giardia Ox<br>ponds  | Cryptosporidium<br>Ox ponds | Salmonella<br>Ox ponds | Thermotolerant<br>Campylobacter<br>Ox ponds |
|-----------|-------------------------|------------------------|----------------------|-----------------------------|------------------------|---------------------------------------------|
| Unit      | pfu10/L                 | IU/10 L                | confirmed<br>cysts/L | confirmed<br>oocysts/L      | MPN/100ml              | MPN/100ml                                   |
| 17/3/2020 | 170                     | 4200                   | 6                    | <0.67                       | 0.9                    | <0.30                                       |
| 17/4/2023 | 0                       | 80                     | <0.67                | <0.67                       | <0.3                   | 0.4                                         |
| 1/5/2024  | 0                       | 5                      | <0.67                | 0.67                        | <0.3                   | 43                                          |
| 10/4/2025 | 2                       | 0                      | 0                    | 0                           | 0.9                    | 75                                          |

### Condition 13f – Six monthly heavy metal monitoring of Ocean Outfall

| Date       | Arsenic | Cadmium | Chromium | Copper | Lead   | Nickel | Zinc   | Mercury  |
|------------|---------|---------|----------|--------|--------|--------|--------|----------|
| Unit       | mg/m3   | mg/m3   | mg/m3    | mg/m3  | mg/m3  | mg/m3  | mg/m3  | mg/m3    |
| 3/04/2025  | 0.0016  | <0.001  | 0.0014   | 0.0015 | <0.001 | 0.002  | 0.014  | <0.001   |
| 30/01/2025 | 0.0031  | <0.001  | 0.0021   | 0.0018 | <0.001 | 0.0024 | 0.014  | <0.00005 |
| 9/04/2024  | 0.0016  | <0.001  | 0.0017   | <0.001 | <0.001 | 0.0022 | 0.0044 | <0.00005 |
| 9/01/2024  | 0.0021  | <0.001  | 0.0033   | 0.002  | <0.001 | 0.0018 | 0.0084 | <0.00005 |
| 2/10/2023  | 0.0031  | <0.001  | 0.019    | 0.015  | 0.0042 | 0.0063 | 0.062  | <0.00005 |
| 20/07/2023 | 0.0026  | <0.001  | 0.0051   | 0.0034 | <0.001 | 0.002  | 0.017  | <0.00005 |

### Condition 13g – Annual Organochlorine pesticides, organophosphate pesticides, PCBs, and polycyclic aromatic hydrocarbons

Following the trickling filter fire in 2021, CWTP increased the testing frequency to a monthly basis. As the temporary process has since stabilised, the sampling frequency was reduced to the consented annual basis starting in August 2025.

# 2. Receiving Environment Monitoring in Pegasus Bay

## 2.1 Water Quality Resource Consent Conditions

Consent conditions 18, 21 and 22 call for monitoring of the marine environment around the outfall at various frequencies and were identified in the AEE. These requirements are summarised in Table 2.3.1. The results are attached to the quarterly reports covering the same period.

Table 2.1.1 Weekly Sampling Beach Water Quality Compliance July 2024 – June 2025

| Consent Condition | Location               | Parameter        | Ju l 24 | Aug 24 | Se p 24 | Oct 24 | Nov 24 | De c 24 | Ja n 25 | Feb 25 | Mar 25 | Apr 25 | May 25 | Jun 25 | Ove rall |
|-------------------|------------------------|------------------|---------|--------|---------|--------|--------|---------|---------|--------|--------|--------|--------|--------|----------|
| 18                | South New Brighton     | Faecal Coliforms | 😊       | 😊      | 😊       | 😊      | 😊      | 😊       | 😊       | 😐      | 😊      | 😐      | 😊      | 😊      | 😊        |
| 18                | South New Brighton     | Enterococci      | 😊       | 😊      | 😊       | 😊      | 😊      | 😊       | 😊       | 😊      | 😊      | 😊      | 😊      | 😊      | 😊        |
| 18                | Sumner Beach           | Faecal Coliforms | 😊       | 😊      | 😊       | 😊      | 😊      | 😐       | 😊       | 😊      | 😐      | 😊      | 😊      | 😊      | 😊        |
| 18                | Sumner Beach           | Enterococci      | 😊       | 😊      | 😊       | 😊      | 😊      | 😊       | 😊       | 😊      | 😐      | 😊      | 😊      | 😊      | 😊        |
| 18                | New Brighton Surf Club | Faecal Coliforms | 😊       | 😊      | 😊       | 😊      | 😊      | 😊       | 😊       | 😊      | 😊      | 😊      | 😊      | 😊      | 😊        |
| 18                | New Brighton Surf Club | Enterococci      | 😊       | 😊      | 😊       | 😊      | 😊      | 😊       | 😊       | 😊      | 😊      | 😊      | 😊      | 😊      | 😊        |

Key: 😊 No exceedances of Standard 😐 Isolated exceedances of Standard 😞 Notification to ECAN required

Table 2.2.3 Receiving Environment Ocean Water Quality Compliance July 2024 – June 2025

| Consent Condition                                    | Parameter                                                                | Condition Timeframe | North of the centre | South of the centre | West of inshore end | East of inshore end | Overall |
|------------------------------------------------------|--------------------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------|
| 22a<br><br>(last sampled 6/3/2023, next due in 2025) | Temperature                                                              | Two yearly          | 😊                   | 😊                   | 😊                   | 😊                   | 😊       |
|                                                      | DO                                                                       | Two yearly          | 😊                   | 😊                   | 😊                   | 😊                   | 😊       |
|                                                      | Salinity                                                                 | Two yearly          | 😊                   | 😊                   | 😊                   | 😊                   | 😊       |
|                                                      | Total Suspended Solids                                                   | Two yearly          | 😊                   | 😊                   | 😊                   | 😊                   | 😊       |
|                                                      | Nitrogen Oxides                                                          | Two yearly          | 😊                   | 😊                   | 😊                   | 😊                   | 😊       |
|                                                      | Ammoniacal Nitrogen                                                      | Two yearly          | 😊                   | 😊                   | 😊                   | 😊                   | 😊       |
|                                                      | Dissolved Reactive Phosphorus                                            | Two yearly          | 😊                   | 😊                   | 😊                   | 😊                   | 😊       |
|                                                      | Chlorophyll-a                                                            | Two yearly          | 😊                   | 😊                   | 😊                   | 😊                   | 😊       |
|                                                      | Trace Metals (arsenic, cadmium, copper, chromium, lead, nickel and zinc) | Two yearly          | 😊                   | 😊                   | 😊                   | 😊                   | 😊       |
|                                                      | Faecal Coliforms                                                         | Two yearly          | 😊                   | 😊                   | 😊                   | 😊                   | 😊       |
|                                                      | Enterococci                                                              | Two yearly          | 😊                   | 😊                   | 😊                   | 😊                   | 😊       |
|                                                      | Phytoplankton Species                                                    | Two yearly          | 😊                   | 😊                   | 😊                   | 😊                   | 😊       |

Key: 😊 Full Compliance    😐 Minor, Isolated or Risk of Non-Compliance    😞 Major or Consistent Non-Compliance

## 2.2 Beach Water Quality Analysis Results

Samples for condition 18 were taken at weekly intervals from the prescribed onshore locations. The results are presented below. The consent limit for Enterococci is 280/100mL and Faecal Coliforms 43CFU /100mL. The below table describes the notification requirements for any exceedances detected.

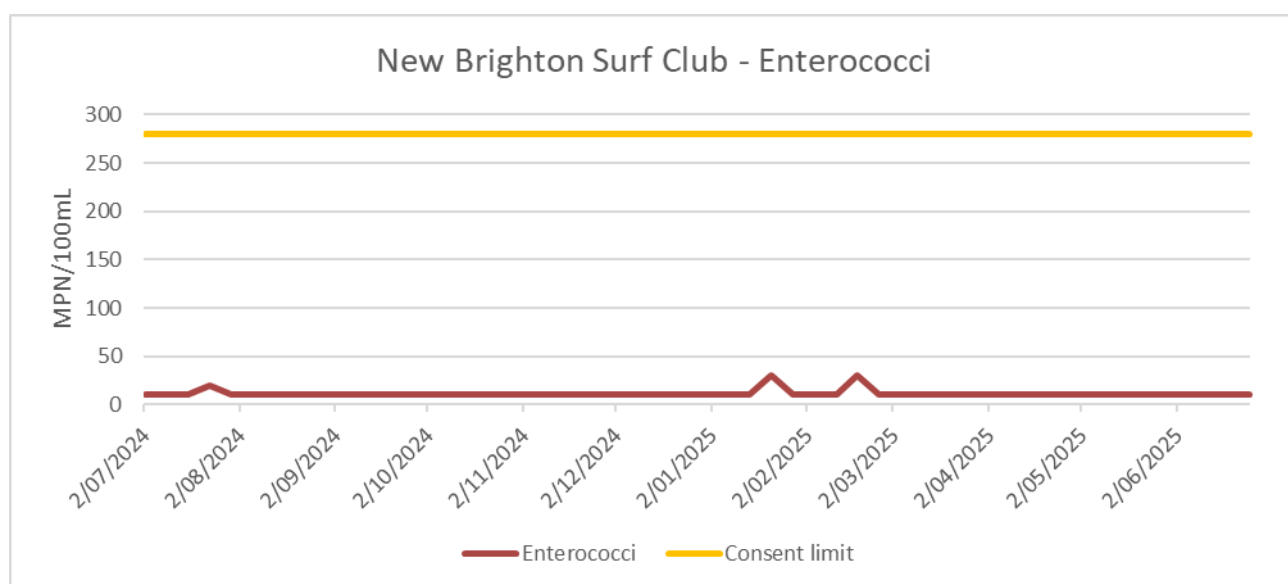
### Condition 19 of CRC051724

In the event that the concentration of enterococci in a single sample collected from a site identified in condition 18(a) exceeds 280 enterococci per 100 millilitres, the consent holder shall within 24 hours collect another sample from that site. If the **second sample** also exceeds 280 enterococci per 100 millilitres, the consent holder shall notify the Canterbury Regional Council and the Medical Officer of Health for Canterbury within 48 hours of detection of this exceedence.

### Condition 20 of CRC051724

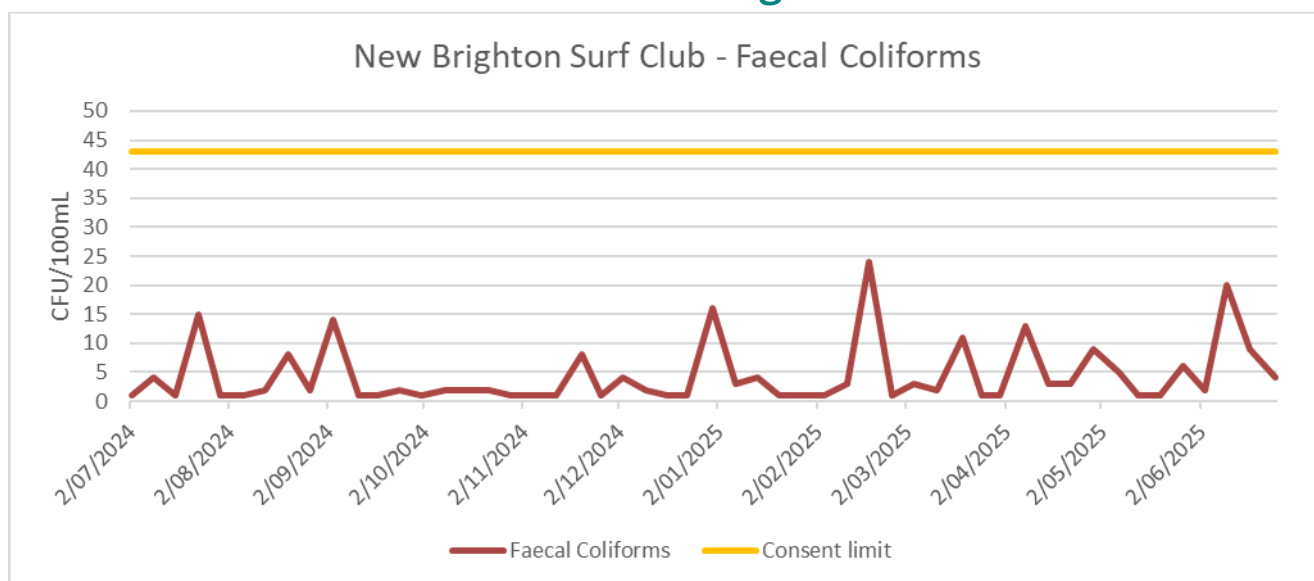
In the event that the concentration of faecal coliforms in a single sample collected from a site identified in condition 18(a) exceeds 43 faecal coliforms per 100 millilitres at a site, the consent holder shall within 24 hours collect another sample from that site. If the **second sample** from that site exceeds 43 faecal coliforms per 100 millilitres, the consent holder shall notify the Canterbury Regional Council and the Medical Officer of Health for Canterbury within 48 hours of detection of this exceedence.

### 2.2.1 Enterococci Levels at New Brighton Surf Club



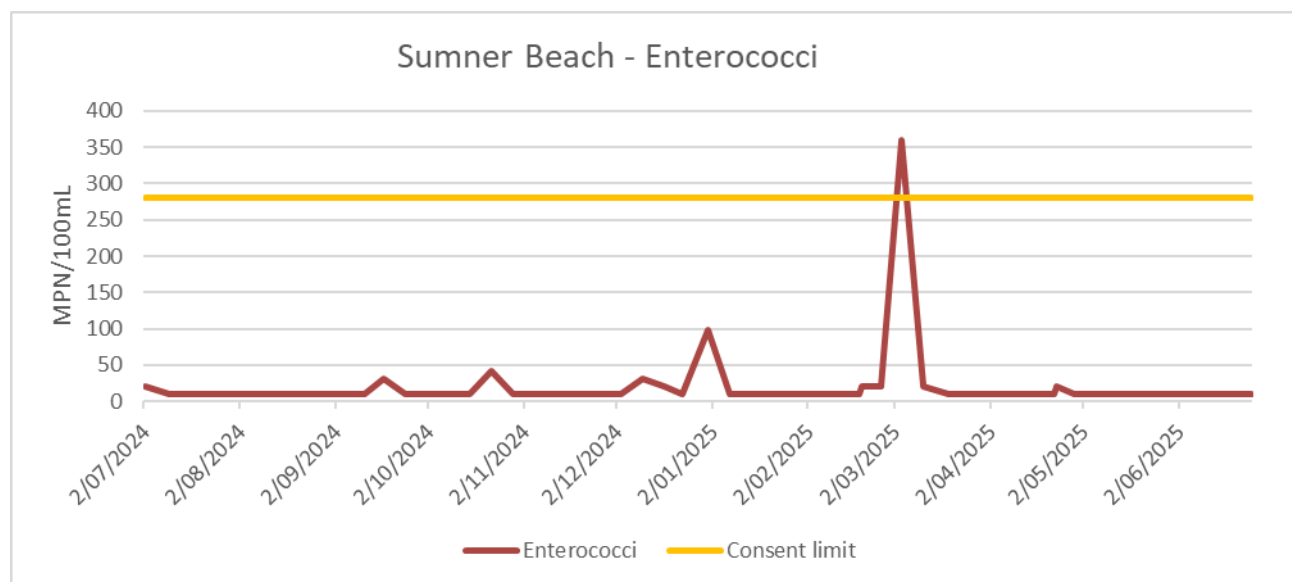
There were no exceedances of the 280MPN/100 mL Enterococci consent limit at New Brighton Surf Club this reporting period.

## 2.2.1 Faecal Coliform Levels at New Brighton Surf Club



There were no exceedances of the 43CFU/100 mL Faecal Coliform consent limit at New Brighton Surf Club this reporting period.

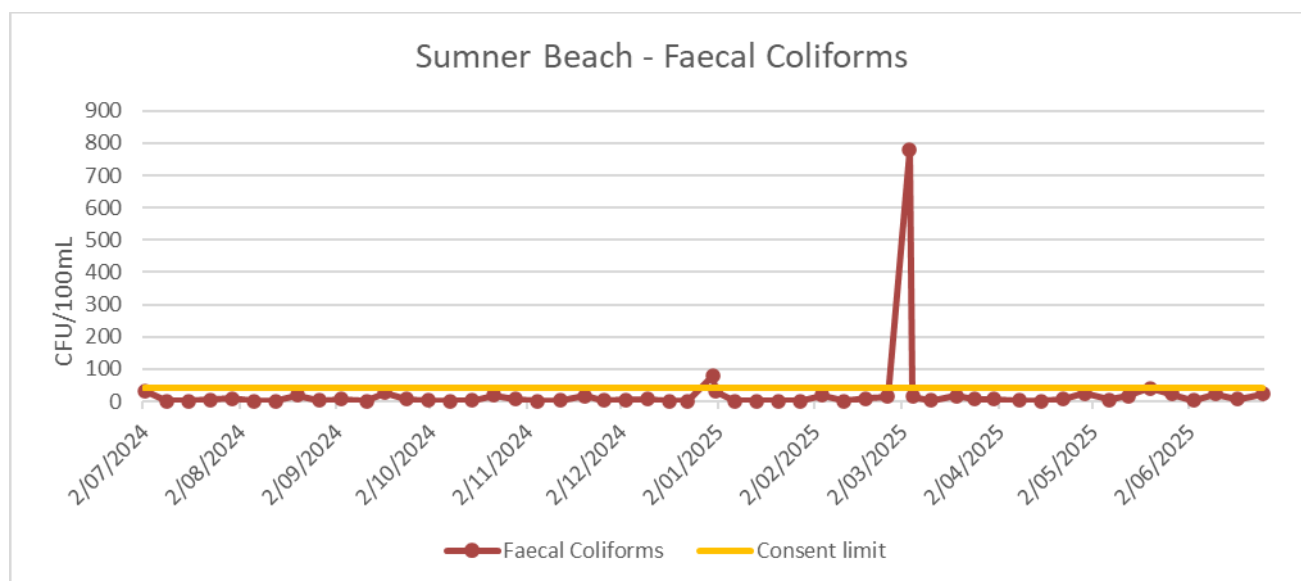
## 2.2.3 Enterococci Levels at Sumner Beach



There was 1 exceedance of the 280MPN/100 mL Enterococci consent limit at New Brighton Surf Club this reporting period, with a sample result of 360MPN/100 mL returned on 4/3/2025.

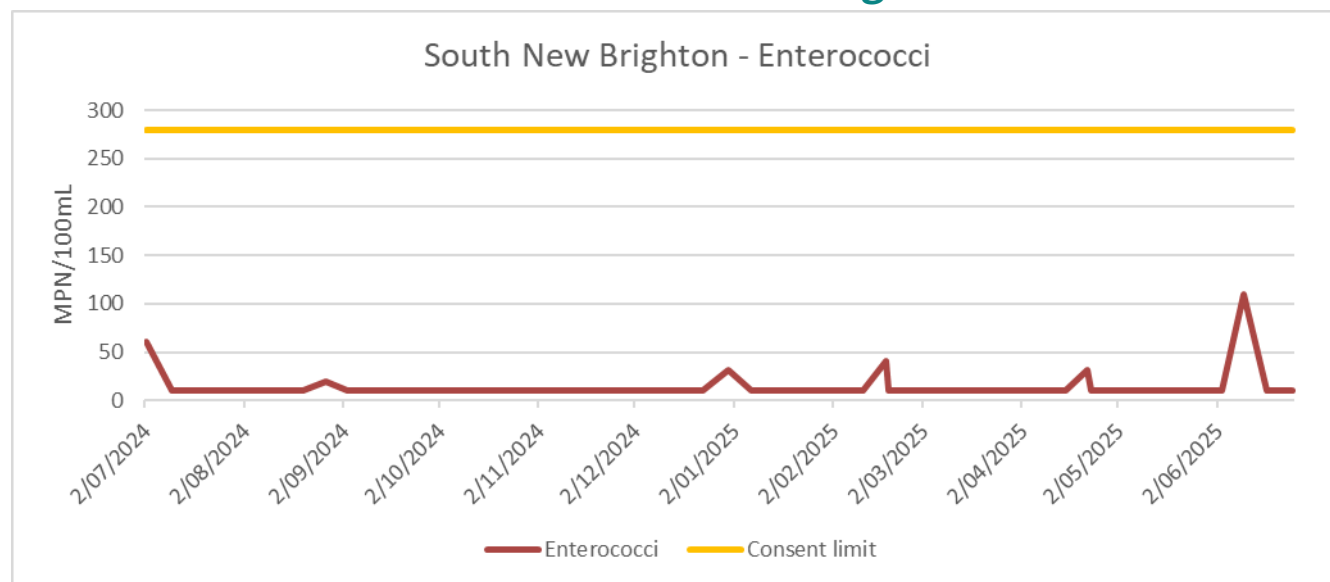
The beach was resampled within 48rs on each occasion, and a compliant sample result below the consent limit was returned.

## 2.2.4 Faecal Coliform Levels at Sumner Beach



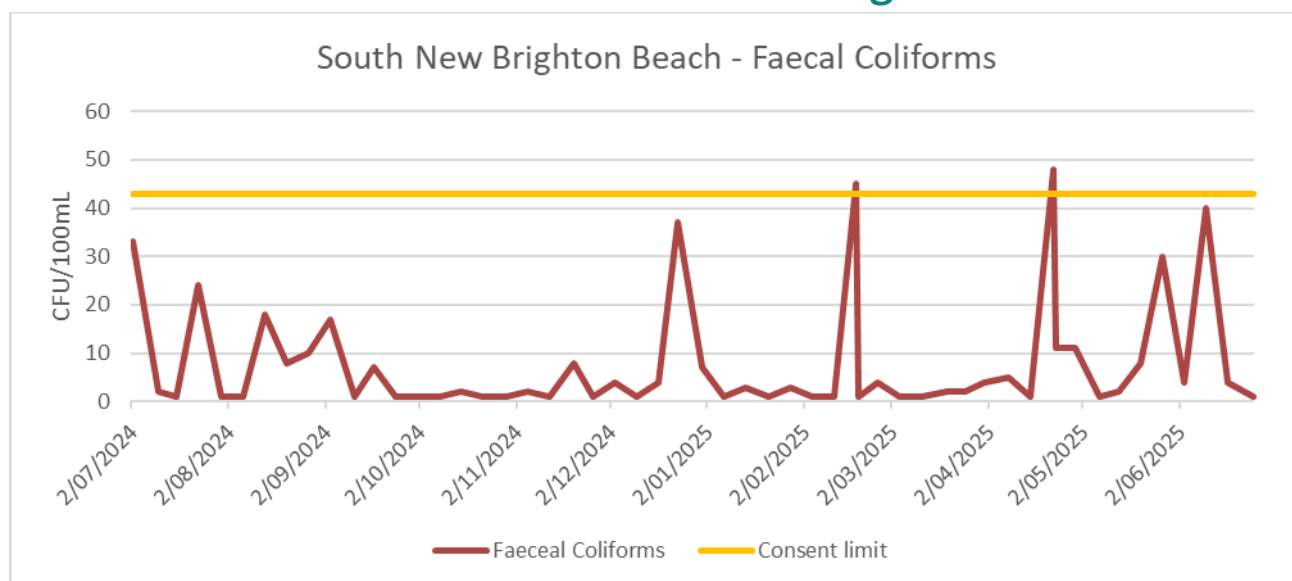
There was 1 exceedance of the 43CFU/100 mL Faecal Coliform consent limit at Sumner Beach this reporting period, with a sample result of 79 CFU returned on 31/12/2024 and 780 CFU/100 mL returned on 4/3/2025.

## 2.2.5 Enterococci Levels at South New Brighton Beach



There were 0 exceedances of the 280MPN/100 mL Enterococci consent limit at South New Brighton Beach this reporting period.

## 2.2.6 Faecal Coliform Levels at South New Brighton Beach



There were 4 exceedances of the 43CFU/100 mL Faecal Coliform consent limit at Sumner Beach this reporting period, with sample results of 69CFU/100 mL returned on 25/07/2023, 61CFU/100 mL on 12/12/2023, 420CFU/100 mL on 12/03/2024 and 300CFU/100 mL on 12/06/2024. The beach was resampled within 48rs on each occasion, and a compliant sample result below the consent limit was returned.

## 2.3 Other Receiving Environment Analysis

Consent conditions 23, 25, 26 and 27 call for monitoring of the marine environment around the outfall at various frequencies and were identified in the AEE. These requirements are summarised in Table 2.3.1. The results are attached to the quarterly reports as required.

**Table 2.3.1 Receiving Environment Monitoring Consent Compliance Jul 2024- Jun 2025**

| Consent Condition | Parameter               | Frequency                  | Compliance Condition                                                  | Grade |
|-------------------|-------------------------|----------------------------|-----------------------------------------------------------------------|-------|
| 23                | Marine Sediments        | 5-yearly                   | Done 2022, next due 2027                                              | 😊     |
| 25                | Benthic Invertebrates   | 5-yearly                   | Done 2022, next due 2027                                              | 😊     |
| 26                | Epibenthic Fauna        | 5-yearly                   | Done 2022, next due 2027                                              | 😊     |
| 27                | Shellfish/Tuatua        | Ceased                     | Complied                                                              | 😊     |
| 29                | Complaints              | As required                | Recorded and reported                                                 | 😊     |
| 31                | Annual Report           | Annually                   | Report and information lodged with ECan                               | 😊     |
| 32                | Quarterly Report        | Quarterly                  | Report and information lodged with ECan                               | 😊     |
| 34                | Management Plan         | 4 Years post commissioning | Report and information lodged with ECan – done March 2012 - 12/140121 | 😊     |
| 36                | Community Liaison Group | Annually                   | Scheduled for 8/10/2025                                               | 😊     |

**Key:** 😊 Full Compliance    😐 Minor, Isolated or Risk of Non-Compliance    😞 Major or Consistent Non-Compliance

## 2.4 Comments on other conditions

### Conditions 23 - 26

Sediment, benthic and epibenthic testing was carried out in July 2022. This sampling is next due in 2027.

### Condition 27

Shellfish were last sampled and analysed in June 2022. The monitoring required by this condition shall cease two years after commissioning the outfall or after two years of continuous compliance with the standard.

### Condition 29

There were no complaints from the public regarding the ocean outfall during the reporting period.

### Condition 31 and 32

Annual and quarterly reports have been submitted to Environment Canterbury.

### Condition 36

In 2017, Environment Canterbury agreed that due to negligible interest in our community meeting that we could forgo holding it unless requested by the community.

After the fire at the CWTP in 2021, it was decided to restart the Community Liaison Group meetings be held to allay the community concerns regarding the potential odours from the ponds during the coming months.

This meeting was held on 20/09/2023, and the presentation is available on the external CCC website:

<https://ccc.govt.nz/services/water-and-drainage/wastewater/treatment-plants/christchurch-wastewater-treatment-plant/community-liaison-group/>

In response to the decline in pond health and subsequent odour issues last winter, we implemented a multi-faceted communication strategy to keep all parties informed of what work was taking place to improve the functionality of the plant and pond health, and the results of air quality monitoring.

An integral part of this strategy was the establishment of a web page dedicated to the recovery of the wastewater treatment plant fire, as well as Newsline stories, videos, infographics and newsletters that residents could view. This website and newsletters are still being actively maintained.

The next CLG meeting is scheduled for **9/10/2024**.