Western Wastewater Treatment Plant

October - December 2024 Quarterly Resource Consents Report

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CONTROL SHEET

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EXECUTIVE SUMMARY

The following report was prepared by Veolia on behalf of the Wellington City Council (WCC) for the Greater Wellington Regional Council (GWRC). This report includes results and observations that satisfy the reporting requirements of the following Western Wastewater Treatment Plant (WWTP) resource consents:

WGN060283 [37892] - Discharge of Fully Treated Effluent to Coastal Marine Area

Effluent discharge from the Western WWTP is governed by the resource consent under the Greater Wellington Regional Council consent file number WGN060283 [37892]. In general, the consent allows the continuous discharge disinfected secondary (fully treated) effluent to the Wellington South Coast coastal marine area (Cook Strait in the vicinity of the Karori Stream Mouth) via an existing outfall. For part of the reporting period the outfall pipeline was offline which caused the treatment plant to discharge to the Karori Stream. After the outfall pipeline was repaired and returned to service at the end of October, the plant was compliant with Condition 1 during November and December. The table below sets out a brief overview of the plant's compliance with the consent conditions:

Resource Consent Condition	Compliant / Non-Compliant / Not Applicable			
Condition 1	Compliant			
Condition 2	Compliant			
Condition 6	Non-compliant			
Condition 9	Compliant			
Condition 10	Compliant			
Condition 11	Compliant			
Condition 13	Compliant			
Condition 14	Compliant			
Condition 15	Compliant			
Condition 16	Compliant			
Condition 19	Compliant			
Condition 25	Compliant			

Tables 1&2: WGN060283 [37892] & WGN060283 [25227] Resource Consent Condition Compliance

WGN060283 [25227] - Occasional Discharges to the Coastal Marine Area

The discharge from the Western WWTP is governed by another resource consent under the Greater Wellington Regional Council consent file number WGN060283 [25227]. In general, the consent allows the occasional discharge of milli-screened (partially treated) effluent to the Wellington South Coast coastal marine area via an existing outfall during significant wet weather events. The table below sets out a brief overview of the plant's compliance with the consent conditions:

Resource Consent Condition	Compliant / Non-Compliant / Not Applicable
Condition 2	Not applicable
Condition 5	Not applicable
Condition 6	Not applicable
Condition 7	Not applicable
Condition 8	Not applicable
Condition 13	Not applicable

WGN060283 [35674] - Occasional discharges of Waste Water to Karoriri Stream

The discharge from the Western WWTP is governed by another resource consent under the Greater Wellington Regional Council consent file number WGN060283 [35674]. In general, the consent allows the occasional discharge of secondary treated and disinfected wastewater from the Western WWTP to Karori Stream during events when the stormwater tank is full and the flow to the plant exceeds 190L/s. The table below sets out a brief overview of the plant's compliance with the consent conditions:

Resource Consent Condition	Compliant / Non-Compliant / Not Applicable			
Condition 2	Compliant			
Condition 3	Compliant			
Condition 6	Compliant			
Condition 7	Not Applicable			
Condition 8	Compliant			
Condition 9	Not Applicable			
Condition 16	Not Applicable			
Table 3: WGN060283 [35674] Resource Consent Condition Compliance				

WGN060283 [35675] - Occasional discharges to Karoriri Stream

The discharge from the Western WWTP is governed by another resource consent under the Greater Wellington Regional Council consent file number WGN060283 [35675]. In general, the consent allows for the occasional discharge of milli-screened and settled wastewater from the Western WWTP to Karori stream during events when the stormwater tank is full and the flow to the plant exceeds 390L/s. As inflows did not exceed 390 I/s during the reporting period, none of the conditions were applicable in this reporting period.

Resource Consent Condition	Compliant / Non-Compliant / Not Applicable
Condition 2	Not Applicable
Condition 3	Not Applicable
Condition 5	Not Applicable
Condition 6	Not Applicable
Condition 7	Not Applicable
Condition 8	Not Applicable
Condition 13	Not Applicable

Table 4: WGN060283 [35675] Resource Consent Condition Compliance

WGN060283 [25230] - Discharge to Air

The resource consent that governs the air discharge from the Western WWTP is under the Greater Wellington Regional Council consent file number WGN060283 [25230]. In general, the consent allows the discharge of contaminants to air from the operation of the Western WWTP. The table below sets out a brief overview of the plant's compliance with the consent conditions:

Resource Consent Condition	Compliant / Non-Compliant / Not Applicable		
Condition 3	Compliant		
Condition 4	Compliant		
Condition 10	Not Applicable		

Table 5: WGN060283 [25230] Resource Consent Compliance

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Condition 1 - Location

The location and nature of the discharge shall be in accordance with the consent application and its associated plans and documents lodged with the Wellington Regional Council on 30 March 2006, and additional information received on: 29 June 2006, 5 December 2014, 15 January 2015 and 12 November 2015 (change of consent conditions application), 2 February 2018 (change of conditions application), 13 October 2021 (change of conditions application) and 16 March 2022 (email from applicant confirming agreement to alternative wording).

Condition met.

Condition 2 - Discharge limit

The rate of discharge shall not exceed 200 litres per second (L/s) or 17,280 cubic metres per day (m³/day).

The limits from this condition have been added to WGN060283 [37892] Condition (6).

Condition 6 - Monitoring of flow rate and volume

The permit holder shall continuously monitor and record the flow rate and volume of treated wastewater entering the outfall pipeline and the flow rate and volume of the wastewater discharged to the South Coast to the satisfaction of the Wellington Regional Council. A summary of the records listing the daily discharge volumes and the minimum, average and maximum monthly volumes shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council at quarterly intervals in accordance with condition (19) of this permit.

Below is a summary of the effluent flow from the treatment plant. This includes the average daily flow rate, minimum daily flow, maximum daily flow and monthly average total daily discharge.

Month	Average Daily Flow Minimum Daily Flow		Maximum Daily Flow	Average Total Daily Volume	
	L/s	L/s	L/s	m³/day	
October 2024	52	34	145	4351	
November 2024 44		36	82	3753	
December 2024	41	33	99	3514	

Table 6: Monthly Treatment Plant Effluent Flow

For all average daily, peak hourly and total daily flow rates for the WWTP effluent see Appendix i: Treatment Plant Effluent Flow Rate.

Please note that the discharge limit specified in WGN060283 [37892], Condition (2) applies to the discharge from the effluent pipeline to the coastal marine area. It is not applicable to the discharge from the WWTP. Below is a summary of the effluent pipeline monthly average total daily discharge, average daily flow rate, minimum daily flow, and maximum daily flow.

Month	Average Daily Flow	Minimum Daily Flow	Maximum Daily Flow	Average Total Daily Volume	
	L/s L/s L/s		m³/day		
October - December 2024	Effluent pipeline sensors weren't operating, so no flow data available for the reporting period. There was an issue with sensor readings being received / recorded in the SCADA system. Remedial actions are underway.				
Limit	200 17280				

Table 7: Monthly Effluent Pipeline Flow

- a. The permit holder shall take a daily 24-hour flow-proportional composite sample of the treated wastewater discharged from the treatment plant to the South Coast. This sample shall be analysed for total suspended solids and 5-day biochemical oxygen demand (BOD5).
- b. The permit holder shall daily between the hours of 9:00 am and 5:00 pm, obtain a representative grab sample of the treated wastewater discharged from the treatment plant to the South Coast. This sample shall be analysed for faecal coliforms.
- c. The results of monitoring undertaken in accordance with conditions (9)(a) and (9)(b) of this permit shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council on a quarterly basis, in accordance with condition (19) of this permit.

Samples were taken each day throughout the reporting period. The effluent BOD5 and suspended solids results from daily representative 24-hour flow-proportional composite samples can be found below under resource consent WGN060283 [37892] Condition 10 i) and ii). The effluent faecal coliform results from the daily representative grab samples can be found under resource consent WGN060283 [37892] Condition 10 iii).

Condition 10 - Effluent Quality Criteria

The wastewater discharged from the Western Wastewater Treatment Plan to the South Coast shall comply with the following effluent quality criteria:

i. BOD5

The geometric mean of any 90 consecutive daily sample results shall not exceed 20 g/m3 and no more than 18 sample results in any 90-day period (or 15 consecutive sample results in any 90-day period) shall exceed 50 g/m3.

ii. Suspended solids

The geometric mean of any 90 consecutive daily sample results shall not exceed 30 g/m3 and no more than 18 sample results in any 90-day period (or 15 consecutive sample results in any 90-day period) shall exceed 80 g/m3.

iii. Faecal Coliforms

The geometric mean of any 90 consecutive daily sample results shall not exceed 200 colony forming units per 100 ml and no more than 18 sample results in any 90-day period (or 15 consecutive sample results in any 90-day period) shall exceed 2,000 colony forming units per 100ml.

Compliance with the effluent quality criteria shall be determined from the results of wastewater monitoring undertaken in accordance with conditions (9) (a) and (9) (b) of this permit.

The effluent BOD5 and suspended solids results from daily representative 24-hour flow-proportional composite samples can be found below under resource consent WGN060283 [37892] Condition 10 i) and ii). The effluent faecal coliform results from the daily representative grab samples can be found under resource consent WGN060283 [37892] Condition 10 iii).

i) 5-Day Biochemical Oxygen Demand

The following is a summary of the daily results, 90-day geometric mean, and 90-day 80th percentile for the 5-day biochemical oxygen demand.

		October 2024		l	November 2024 December 20		December 2024		2024	
Day	Daily Results	90-Day Geometric Mean	90-Day 80th Percentile	Daily Results	90-Day Geometric Mean	90-Day 80th Percentile	Daily 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	14	20	9	11.1	19	19	9.7	16.2	
2	6	14	20	8	11	19	16	9.7	16.2	
3	7	14	20	15	10.9	19	20	9.8	17.2	
4	8	14	20	15	10.9	19	22	9.8	18	
5	7	13	20	16	10.9	18.2	27	9.9	18	
6	10	13	20	13	10.9	18.2	24	9.9	18	
7	10	13	20	18	10.9	18	19	9.9	18	
8	9	13	20	10	10.7	18	21	9.9	18	
9	8	13	20	18	10.7	18	20	9.9	18	
10	12	13	20	22	10.7	18	16	10	18	
11	4	13	20	12	10.7	18	21	10.2	18	
12	11	13	20	8	10.6	18	26	10.3	18	
13	15	13	20	11	10.5	18	17	10.4	18	
14	7	13	20	9	10.3	17.2	118	10.8	18.2	
15	7	13	20	23	10.4	17.2	17	10.9	18.2	
16	4	13	20	5	9.9	17	16	11.1	18.2	
17	7	13	20	9	9.7	16.2	18	11.2	18.2	
18	7	12	20	10	9.7	16	17	11.3	18.2	
19	8	12	19	15	9.7	16	16	11.5	18.2	
20	7	12	19	14	9.6	16	14	11.6	18.2	
21	10	12	19	16	9.5	16	22	11.8	19	
22	8	12	19	19	9.5	16	15	11.9	19	
23	6	12	19	21	9.5	16	8	11.9	19	
24	7	12	19	22	9.5	16	12	12	19	
25	5	12	19	18	9.5	16	14	12.1	19	
26	12	12	19	26	9.5	16	18	12.3	19	
27	6	11	19	21	9.6	16	14	12.4	19	
28	16	11	19	13	9.6	16	14	12.6	19	
29	8	11	19	18	9.7	16	12	12.6	19	
30	13	11	19	18	9.7	16	13	12.7	19	
31	8	11	19				7	12.7	19	
Limits	N/A	20	50	N/A	20	50	N/A	20	50	

Table 8: 5-Day Biochemical Oxygen Demand Results, Geometric Mean, and 80th Percentile

Please note that analytical results highlighted in amber are above the 20g/m³ geometric mean limit. Analytical results highlighted in red are above the 50g/m³ 80th percentile compliance limit.

ii) Suspended Solids

The following is a summary of the daily results, 90-day geometric mean, and 90-day 80th percentile for the suspended solids.

		October 2024	Ļ	November 2024			C	December 2024		
Day	Daily Results	90-Day Geometric Mean	90-Day 80th Percentile	Daily Results	90-Day Geometric Mean	90-Day 80th Percentile	Daily 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	8	9	10	8.3	10	20	10.6	17.2	
2	6	8	9	12	8.3	10	14	10.6	17.2	
3	8	8	9	29	8.5	10.2	13	10.7	17.2	
4	6	8	9	28	8.5	10.2	14	10.8	17.2	
5	7	8	9	22	8.7	11	19	11	18.2	
6	11	8	10	12	8.7	11	13	11	18.2	
7	10	8	10	17	8.8	11	7	11	18.2	
8	9	8	10	9	8.9	11	8	11	18.2	
9	10	8	10	15	8.9	11	10	11	18.2	
10	8	8	10	12	9	11.2	11	11	18.2	
11	11	8	10	10	9	11.2	13	11	18.2	
12	7	8	10	6	8.9	11	11	11.1	18.2	
13	10	8	10	19	9	11.2	9	11.1	18.2	
14	6	8	10	11	9	11.2	7	11.1	18.2	
15	6	8	10	44	9.2	12	7	11.1	18.2	
16	6	8	10	6	8.8	11.2	19	11.2	19	
17	10	8	10	7	8.8	11.2	13	11.1	18.2	
18	6	8	10	7	8.7	11.2	10	11.1	18.2	
19	6	8	10	14	8.8	12	18	11.3	18.2	
20	10	8	10	18	8.9	12	12	11.2	18.2	
21	7	8	10	17	9	12.4	9	11.1	18	
22	7	8	10	31	9.2	14	17	11.2	18	
23	16	8	10	39	9.4	14.2	7	11.2	18	
24	6	8	10	26	9.5	15	11	11.2	18	
25	6	8	10	27	9.7	15.2	14	11.3	18	
26	14	8	10	31	9.9	16	8	11.3	18	
27	6	8	10	19	10	16.2	13	11.4	18	
28	8	8	10	28	10.2	17	13	11.5	18	
29	6	8	10	16	10.3	17	10	11.5	17.2	
30	16	8	10	40	10.5	17	12	11.5	17.2	
31	8	8	10				6	11.5	17.2	
Limits	N/A	30	80	N/A	30	80	N/A	30	80	

Table 9: Suspended Solids Results, Geometric Mean, and 80th Percentile

Please note that analytical results highlighted in amber are above the 30g/m³ geometric mean limit. Analytical results highlighted in red are above the 80g/m³ 80th percentile compliance limit.

iii) Faecal Coliforms

The following is a summary of the daily results, 90-day geometric mean, and 90-day 80th percentile for faecal coliforms.

		October 2024	-	1	ovember 202	4	[December 2024		
Day	Daily Results	90-Day Geometric Mean	90-Day 80th Percentile	Daily Results	90-Day Geometric Mean	90-Day 80th Percentile	Daily Results	90-Day 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	10	12	10	17	13	10	28	14	14	
2	28	12	10	26	13	11	10	14	14	
3	10	12	10	10	13	11	10	14	14	
4	10	12	10	10	13	11	41	14	14	
5	10	12	10	10	13	11	22	14	15	
6	10	12	10	10	13	11	24	14	17	
7	10	12	10	10	13	11	49	14	17	
8	10	12	10	10	13	11	35	14	18	
9	10	12	10	10	13	11	10	14	18	
10	10	12	10	10	13	11	10	14	18	
11	10	12	10	10	13	10	10	14	18	
12	10	12	10	10	13	10	10	14	18	
13	10	12	10	10	13	10	10	14	18	
14	374	13	10	10	13	10	10	14	18	
15	10	13	10	20	13	10	10	14	18	
16	10	13	10	110	13	11	10	14	18	
17	10	13	10	10	13	10	10	14	18	
18	10	13	10	10	13	10	10	14	18	
19	2569	14	10	24	13	11	10	14	18	
20	10	14	10	10	13	11	115	15	20	
21	10	14	10	10	13	11	10	15	20	
22	10	14	10	10	13	10	10	15	20	
23	10	13	10	39	13	11	10	15	20	
24	10	13	10	14	13	11	10	15	20	
25	14	13	10	10	13	10	10	15	20	
26	17	13	10	20	13	11	10	15	20	
27	10	13	10	548	14	14	10	15	20	
28	10	13	10	10	14	14	10	15	20	
29	14	13	10	10	14	14	10	15	18	
30	10	13	10	45	13	14	10	15	18	
31	10	13	10				10	14	17	
Limits	N/A	200	2000	N/A	200	2000	N/A	200	2000	

Table 10: Faecal Coliforms Results, Geometric Mean, and 80th Percentile

Please note that analytical results highlighted in amber are above the 200g/m³ geometric mean limit. Analytical results highlighted in red are above the 2000g/m³ 80th percent compliance limit.

Condition 11 - Notifications when Effluent Quality is Non-Compliant

The permit holder shall report to the Manager, Environmental Regulation, Wellington Regional Council, immediately in the event that a geometric mean and/or 95 percentile effluent quality value calculated at the end of each calendar month exceeds the criteria stipulated in condition 10 of this permit. 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.

Western WWTP was compliant throughout the reporting period.

Condition 13 - Conspicuous Discharges

The discharge shall not result in any of the following effects beyond a 50 metre radius of the discharge point:

- a. The production of any conspicuous oil or grease films, scums or foams suspended material;
- b. Any conspicuous change in colour or visual clarity;
- c. Any emission of objectionable odour; or
- d. Any significant adverse effect on aquatic life.

Please see the Western Treatment Plant Coastal Outfall Analysis and Observations report in Appendix ii: Outfall Inspection Reports.

Condition 14 - Discharge shall not render seafood inedible

The discharge shall not result in any of the following effects beyond a 100 metre radius of the discharge point:

- a. The rendering of seafood's inedible by virtue of concentration of toxic substances; or
- b. The rendering of seafood's inedible by virtue of concentration of microorganisms.

Inspections were conducted once a month during the reporting period. None of the effects listed in the condition above were reported.

Please see the Western Treatment Plant Coastal Outfall Analysis and Observations report in Appendix ii: Outfall Inspection Reports.

Condition 15 - Assessment of Receiving Waters

The permit holder shall make a qualitative assessment (visual and olfactory) of the receiving waters beyond the mixing zone at least once each month to assess compliance with condition (13) of this permit, and make the results available to the Manager, Environmental Regulation, Wellington Regional Council, at three monthly intervals (in accordance with the requirements of condition (19) of this permit) or on request.

The results of inspections can be found in the Western Treatment Plant Coastal Outfall Analysis and Observations report in Appendix ii: Outfall Inspection Reports.

Condition 16 - Sampling from November - March

The permit holder shall collect representative coastal water samples from knee deep water at the following locations, once each month for five months through November to March inclusive (the bathing season) each year, for the duration of this permit:

- a. 100m SE of the outfall (map reference NZMS 260: R27; 504.835)
- b. 200m SE of the outfall (map reference NZMS 260: R27; 504.834)
- c. The Karori Stream, above the tidal influence
- d. 100m NW of the mouth of the Karori Stream

Sampling shall be undertaken during dry, settled weather where practicable. Each of the water samples shall be analysed for faecal coliform and enterococci bacteria (cfu/100mL). The time of the sample collection, together with the weather and tidal conditions, observations of the sea state, stream colour and location of stream mouth (if at all) shall be recorded and reported with the analytical results.

Water samples taken during the months of January to March inclusive, shall also be analysed for the following parameters:

Ammoniacal nitrogen	g/m³
Nitrite nitrogen	g/m³
Nitrate nitrogen	g/m³
Dissolved reactive phosphorus	g/m³
Nitrite nitrogen Nitrate nitrogen Dissolved reactive phosphorus	g/m ³ g/m ³ g/m ³

The permit holder shall provide the results to the Manager, Environmental Regulation, Regional Council, by 30 April each year (as part of the quarterly report required by condition (19) of this permit), or on request.

Shoreline monitoring results in the reporting period were as follows:

	100m SE of the Outfall												
Date	Enterococci	Faecal Coliforms	Ammoniacal Nitrogen	Ammoniacal Nitrite Nitrate Nitrogen Phosphorus Conditions Tide		Weather							
d/m/y	cfu/100mL	cfu/100mL	g/m³	g/m³	g/m³	g/m³							
29/11/2024	<10	<10	NA	NA	NA	NA	Flood	Low	No rain				
27/12/2024	40	20	NA	NA	NA	NA	Flood	Low	Rainy				

	200m SE of the Outfall												
Date	Enterococci	Faecal Coliforms	Ammoniacal Nitrogen	Nitrite Nitrogen	Nitrate Nitrogen	Dissolved Reactive Phosphorus	Sea Tide		Weather				
d/m/y	cfu/100mL	cfu/100mL	g/m³	g/m³	g/m³	g/m³							
29/11/2024	<10	20	NA	NA	NA	NA	Flood	Low	No rain				
27/12/2024	50	10	NA	NA	NA	NA	Flood	Low	Rainy				

	Karori Stream above Tidal Influence												
Date	Enterococci	Faecal Coliforms	Ammoniacal Nitrogen	Nitrite Nitrogen	Nitrate Nitrogen	Dissolved Reactive Phosphorus	Sea Conditions	Tide	Weather				
d/m/y	cfu/100mL	cfu/100mL	g/m³	g/m³	g/m³	g/m³							
29/11/2024	60	120	NA	NA	NA	NA	Flood	Low	No rain				
27/12/2024	400	330	NA	NA	NA	NA	Flood	Low	Rainy				

	100m NW of the mouth of the Karori Stream												
Date	Enterococci	Faecal Coliforms	Ammoniacal Nitrogen	Nitrite Nitrogen	Nitrate Nitrogen	Dissolved Reactive Phosphorus	Sea Conditions	Sea Tide					
d/m/y	cfu/100mL	cfu/100mL	g/m³	g/m³	g/m³	g/m³							
29/11/2024	<10	10	NA	NA	NA	NA	Flood	Low	No rain				
27/12/2024	60	20	NA	NA	NA	NA	Flood	Low	Rainy				

Condition 19 - Quarterly Monitoring Report

A quarterly monitoring report for each three-month period ending 31 March, 30 June, 30 December and 31 December shall be provided to the Manager, Environmental Regulation, Wellington Regional Council within 30 days of the end of each three month period.

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

The results of all monitoring undertaken, as required by conditions (6), (9)(a), (9)(b) and (25) of this permit. These results shall be provided in an electronic format and a hard-copy format; an assessment of compliance with conditions (6), (9)(a), (9)(b) and (15) of this permit; and reasons for any non-compliance and subsequent actions undertaken to remedy any non-compliance.

All monitoring performed at the Western WWTP has been provided in the previous sections of this report under the designated resource consent conditions. The following is a summary of the monitoring parameters, the resource consent condition the data is listed under, the monitoring frequency, the limits for each parameter, and compliance with the resource consent:

Monitoring Parameters	WGN060283 [37892] Conditions	Monitoring Frequency	Limits	Compliance
Effluent Flow	6	Daily	200L/s 17,280m³/day	Non-compliant
5-Day Biochemical	9a	Deily		Compliant
Oxygen Demand	10ii	Daily	Geometric Mean < 20g/m ³ 90th Percentile < 50g/m ³	Compliant
Suspended	9a			Compliant
Solids	10ii	Daily	Geometric Mean < 30g/m ³ 90th Percentile < 80g/m ³	Compliant
-	9b	Deilu		Compliant
Faecal Collforms	10iii	Daily	Geometric Mean < 200cfu/100mL 90th Percentile < 2000cfu/100mL	Compliant
Receiving Waters Inspection	15	Monthly	-	Compliant
Receiving Waters Sampling	Receiving Waters 16 Monthly Sampling (inclu		-	Compliant
Karori Stream Monitoring	25	Fortnightly		Compliant

Table 11: Monitoring Parameters for Resource Consent WGN060283 [35255]

Condition 25 - Analysis of Karori Stream Water Samples

The permit holder shall collect representative water samples from the Karori Stream at the following locations, once every fortnight for the duration of this permit:

- a. Karori Stream at Friend Street (map reference NZMS 260: R27; 554.901)
- b. Karori Stream at Campbell Street (map reference NZMS 260: R27; 554.900)
- c. Karori Stream at South Karori Road (map reference NZMS 260: R27; 540.880)
- Karori Stream approximately 100 metres upstream of the Western Treatment Plant (map reference NZMS 260: R27; 523.872)
- e. Karori Stream 100 metres approximately downstream of the Western Treatment Plant (map reference NZMS 260: R27; 523.871)

The water samples shall be analysed for faecal coliforms (cfu/100mL). The time of the sample collection, together with the weather conditions shall be recorded and reported with the analytical results.

The permit holder shall provide the results of this monitoring to the Manager, Environmental Regulation, Wellington Regional Council, quarterly, in accordance with the requirements of condition (19) of this permit, or on request.

The following is a summary of the sample	s collected at the 5 locations	during the reporting period.
--	--------------------------------	------------------------------

Site Name Address	Sample Date	Sample Time	Faecal Coliform	Wind Direction	Weather
	dd/mm/yyyy	hh:mm	cfu/100mL		
	04/10/2024	10:26	2000	N	Cloudy & Windy
	30/10/2024	8:22	2500	SSW	Light rain
Karori Stream	14/11/2024	9:53	180	N	Cloudy & Windy
Campbell Street Bridge	28/11/2024	8:18	800	N	Cloudy & Windy
	12/12/2024	6:34	>6000	N	Fine
	26/12/2024	6:29	>6000	S	Light rain
	04/10/2024	10:20	1900	N	Cloudy & Windy
	30/10/2024	8:15	500	SSW	Light rain
Karori Stream	14/11/2024	9:56	200	N	Cloudy & Windy
Friend Street	28/11/2024	8:15	600	N	Cloudy & Windy
	12/12/2024	6:20	>6000	N	Fine
	26/12/2024	6:25	>6000	S	Light rain
	04/10/2024	10:53	1400	N	Cloudy & Windy
Karori Stream	30/10/2024	8:47	500	SSW	Light rain
	14/11/2024	9:39	230	N	Cloudy & Windy
100m	28/11/2024	8:46	180	N	Cloudy & Windy
Downstream of WWTP	12/12/2024	6:52	100	N	Fine
	26/12/2024	6:58	240	S	Light rain
	04/10/2024	10:47	1800	N	Cloudy & Windy
	30/10/2024	8:39	520	SSW	Light rain
Karori Stream	14/11/2024	9:34	160	N	Cloudy & Windy
100m Upstream of WWTP	28/11/2024	8:40	120	N	Cloudy & Windy
	12/12/2024	6:45	90	N	Fine
	26/12/2024	6:53	320	S	Light rain
	04/10/2024	10:35	1500	N	Cloudy & Windy
	30/10/2024	8:30	600	SSW	Light rain
South Karari Dood	14/11/2024	9:48	260	N	Cloudy & Windy
South Naron Road	28/11/2024	8:33	260	N	Cloudy & Windy
	12/12/2024	6:32	310	N	Fine
	26/12/2024	6:45	2000	S	Light rain

Table 12: Karori Stream Sample Data

WGN060283 [25227] - To occasionally discharge milli-screened (partially treated) effluent to the Wellington South Coast coastal marine area (Cook Strait in the vicinity of the Karori Stream Mouth) via an existing outfall during significant wet weather events.

While the discharge on 14 October was for longer than 10 hours, the discharge was to the Karori Stream in accordance with Consent WGN060283 [35674]. Accordingly, all conditions relating to this consent were not applicable during the reporting period.

Condition 2 - Operational Conditions

This permit shall only be exercised when the sewage inflow to the treatment plant exceeds 190 litres per second (L/s), and the 1000 m³ storage tank is full.

Not applicable.

Condition 5 - Information Required in Bypass Discharge Reports

The permit holder shall monitor and record the time, flow rate, duration and total volume of the bypass discharges into the coastal marine area, and shall report the results to the Manager, Environmental Regulation, Wellington Regional Council, within 10 working days of the overflow event occurring.

The permit holder shall maintain an incident log containing the details of each bypass discharge and make it available to the public or the Manager, Environmental Regulation, Wellington Regional Council upon request.

Not applicable.

Condition 6 - Rainfall Recorded Prior to Overflow Events

The permit holder shall submit to the Manager, Environmental Regulation, Wellington Regional Council the amount of rainfall recorded in each hour at Karori Reservoir rain-gauge for each of the 7 days preceding each overflow event in the annual report required by condition (10) of this permit.

Not applicable.

Condition 7 - Analysis of Authorised Discharge Effluent

The permit holder shall take one representative grab sample of the settled, milli-screened effluent prior to its entry into the coastal outfall pipe every time the discharge authorised by this permit has occurred for more than two hours. Each sample shall be analysed for the following parameters:

pH	
Suspended solids	g/m³
Total BOD5	g/m³
Faecal coliform bacteria	cfu/100mL
oils/grease	g/m³

The results of the monitoring shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council within 10 working days of the bypass discharge occurring.

Not applicable.

Condition 8 - Sampling Requirements when Discharges longer than 10 hours

When a bypass discharge occurs that lasts for longer than 10 hours the permit holder shall collect two sets of representative water samples from knee deep water at the following locations:

- a. 100m SE of the outfall (map reference NZMS 260: R27; 504.835)
- b. 200m SE of the outfall (map reference NZMS 260: R27; 504.834)
- c. The Karori Stream, above the tidal influence
- d. 100m NW of the mouth of the Karori Stream

The first set of samples shall be taken within 24 hours of the discharge commencing and the second set of samples shall be taken 12- 48 hours after the discharge has ceased.

These samples shall only be taken provided that safe vehicular access is available and weather conditions allow for safe access to the sample locations.

The water samples shall be analysed for enterococci bacteria (cfu/100ml). The time of the sample collection, together with the weather and tidal conditions shall be recorded and reported with the analytical results.

The results of the monitoring shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council within 10 working days of the bypass discharge occurring.

Not applicable.

Condition 13 - Complaints

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

- a. Name and address of the complainant;
- b. Identification of the nature of the complaint;
- c. Date and time of the complaint and of the alleged event;
- d. Weather conditions at the time of the complaint; and
- e. Any measures taken to address the cause of the complaint.

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

The permit holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council a copy of any complaints recorded in the annual report required by condition (10) of this permit.

There were no complaints during the reporting period.

WGN060283 [35674] - To occasionally discharge secondary treated and disinfected wastewater from the Western Wastewater Treatment Plant to Karori Stream during events when the stormwater tank is full and the flow to the plant exceeds 190 L/s.

Condition 2 - Operational Conditions

This permit shall only be exercised when the sewage inflow to the treatment plant exceeds 190 litres per second (L/s), and the 1000 m3 storage tank is full.

Complied for the event on 14 October.

Condition 3 - Inflows to be recorded and provided upon request

The permit holder shall continuously monitor and record influent flow to the Western Wastewater Treatment Plant, and make the results available to the Manager, Environmental Regulation, Wellington Regional Council on request.

The Manager, Environmental Regulation, Wellington Regional Council has not requested this information be provided.

Condition 6 - Information Required in Bypass Discharge Report

The permit holder shall monitor and record the time, flow rate, duration and total volume of the overflow discharges into the Karori Stream, and shall report the results to the Manager, Environmental Regulation, Wellington Regional Council, within 10 working days of the overflow event occurring.

The permit holder shall maintain an incident log containing the details of each overflow discharge and make it available to the public or the Manager, Environmental Regulation, Wellington Regional Council upon request.

Date	Duration	Average Inlet Flow	Peak Inlet Flow	Average Discharge Flow	Peak Discharge Flow	Total Volume of Discharge	Dilution Ratio	Consented	Cause	Monitoring Results
d/m	hr:min	L/s	L/s	L/s	L/s	m³		Y/N		
14/10	17:21	200	230	125	250	7810	1.3:1	Y	High rain event	Notifications submitted, and a sampling campaign initiated.

Details for the discharges are provided below.

Table 13: Discharge Data

Condition 7 - Rainfall Recorded Prior to Discharge

The permit holder shall submit to the Manager, Environmental Regulation, Wellington Regional Council the amount of rainfall recorded in each hour at Karori Reservoir rain-gauge for each of the 7 days preceding each overflow event in the annual report required by condition (11) of this permit.

Notwithstanding that this condition applies to annual reports; rainfall preceding the event is shown below.



Condition 8 - Analysis of Authorised Discharge Effluent

 After an overflow discharge has occurred for more than 2 hours, the permit holder shall collect a representative grab sample of the treated effluent, prior to its entry into Karori Stream. All samples shall be analysed for the following parameters:

 Suspended solids
 g/m³

 Ammoniacal nitrogen
 g/m³

 Total BOD5
 g/m³

 Faecal coliform
 cfu/100mL

 The results of the monitoring shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council within 10 working days of the bypass discharge occurring.

The following samples were collected and analysed.

Date	рН	Total Suspended Solids	Total BOD₅	Faecal Coliforms	Oil/Grease
dd/mm/yyyy	-	g/m³	g/m³	cfu/100mL	g/m³
14/10/2024	-	27	10	>6000	10

Table 15: Settled and Milli-Screened Effluent Sample

Ammonia	Suspended Solids	Total BOD₅	Faecal Coliforms
-	g/m³	g/m³	cfu/100mL
1.52	11	5	160
	Ammonia - 1.52	Ammonia Suspended Solids - g/m ³ 1.52 11	AmmoniaSuspended SolidsTotal BOD₅-g/m³g/m³1.52115

Table 16: Final Effluent Sample

Date	Ammonia	Total Suspended Solids	Total BOD₅	Faecal Coliforms
dd/mm/yyyy	-	g/m³	g/m³	cfu/100mL
14/10/2024	<0.01	112	<6	4000

Table 17: Upstream sample

Condition 9 - Analysis of Authorised Discharge Effluent

After an overflow discharge has occurred for more than 24 hours, the permit holder shall collect two representative grab samples from the Karori Stream, one from upstream of the discharge point and one no more than 100 metres downstream of the discharge point. This sampling shall be repeated at daily intervals thereafter for the duration of the discharge. A final set of samples shall be taken two hours after the discharge has ceased, or as soon as is practicable thereafter.

All samples shall be analysed for the following parameters:

Suspended solids	g/m ³
Total BOD5	g/m ³
Faecal coliform	cfu/100mL

The results of the monitoring shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council within 10 working days of the bypass discharge occurring.

Note: No monitoring shall be required during the hours of darkness, or when conditions are too dangerous for the safe procurement of samples.

The discharge that is reported above was for less than 24 hours.

Condition 16 - Complaints

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

- a. Name and address of the complainant;
- b. Identification of the nature of the complaint;
- c. Date and time of the complaint and of the alleged event;
- d. Weather conditions at the time of the complaint; and
- e. Any measures taken to address the cause of the complaint.

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

The permit holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council a copy of any complaints recorded in the annual report required by condition (10) of this permit.

There were no complaints during the reporting period.

WGN060283 [35675] - To occasionally discharge milli-screened and settled wastewater from the Western Wastewater Treatment Plant to Karori Stream during events when the stormwater tank is full and the flow to the plant exceeds 390 L/s.

Condition 2 - Operational Conditions

This consent shall only be exercised when the sewage inflow to the treatment plant exceeds 390 litres per second (L/s), and the 1000 m^3 storage tank is full.

Inflows did not exceed 390 l/s during the reporting period.

Condition 3 - Inflows to be recorded and provided upon request

The permit holder shall continuously monitor and record influent flow to the Western Wastewater Treatment Plant, and make the results available to the Manager, Environmental Regulation, Wellington Regional Council on request.

The Manager, Environmental Regulation, Wellington Regional Council has not requested this information be provided.

Condition 5 - Information Required in Bypass Discharge Report

The permit holder shall monitor and record the time, flow rate, duration and total volume of the bypass overflow discharges into the Karori Stream, and shall report the results to the Manager, Environmental Regulation, Wellington Regional Council, within 10 working days of the overflow event occurring.

The permit holder shall maintain an incident log containing the details of each bypass overflow discharge and make it available to the public or the Manager, Environmental Regulation, Wellington Regional Council, upon request.

Not applicable - inflows did not exceed 390 l/s during the reporting period.

Condition 6 - Rainfall Recorded Prior to Discharge

The permit holder shall submit to the Manager, Environmental Regulation, Wellington Regional Council the amount of rainfall recorded at the Karori Reservoir rain-gauge in each hour for each of the 7 days preceding each bypass overflow event in the annual report required by condition (9) of this permit.

Not applicable - inflows did not exceed 390 l/s during the reporting period.

Condition 7 - Analysis of Authorised Discharge Effluent

The permit holder shall take one representative grab sample of the settled, milli-screened effluent prior to its entry into the Karori Stream every time the discharge authorised by this permit has occurred for more than one hour. Each sample shall be analysed for the following parameters:

рН	
Suspended solids	g/m³
Total BOD5	g/m³
Faecal coliform bacteria	cfu/100mL
oils/grease	g/m³

The results of the monitoring shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council within 10 working days of the bypass discharge occurring.

Not applicable - inflows did not exceed 390 l/s during the reporting period.

Condition 8 - Analysis of Authorised Discharge Effluent

After any bypass overflow discharge has occurred for more than one hour, the permit holder shall collect representative grab samples from the Karori Stream, upstream of the discharge point at the last bridge to the wastewater treatment plant at approximate map reference NZTM 1742609.5425785.

The sample shall be analysed for the following parameters:

Suspended solids	g/m³
Ammoniacal nitrogen	g/m ³
Total BOD5	g/m ³
Faecal coliform	cfu/100mL

The results of the monitoring shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council within 10 working days of the overflow discharge occurring.

Note: No monitoring shall be required during the hours of darkness, or when conditions are too dangerous for the safe procurement of samples.

Not applicable - inflows did not exceed 390 l/s during the reporting period.

Condition 13 - Complaints

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

- a. Name and address of the complainant;
- b. Identification of the nature of the complaint;
- c. Date and time of the complaint and of the alleged event;
- d. Weather conditions at the time of the complaint; and
- e. Any measures taken to address the cause of the complaint.

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

The permit holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council a copy of any complaints recorded in the annual report required by condition (9) of this permit.

Not applicable - inflows did not exceed 390 l/s during the reporting period.

Condition 3 - Monitoring of Air Quality

The permit holder shall monitor air quality in the vicinity of the plant to confirm the absence of faecal coliforms and salmonella originating from the plant. Sampling is to be carried out at least once every six months.

The sampling method and locations are to be agreed with the Wellington Regional Council within three months of the granting of this permit.

Should the presence of faecal coliforms or salmonella be measured at any time, the Wellington Regional Council may direct that the permit holder sample at least once every month for six months before returning to the six monthly sampling regime.

The results shall be provided annually to Wellington Regional Council as part of the annual report required by condition 8 of this permit.

Ambient Microbe Monitoring was last performed at the Western WWTP in November 2024. All bacterial and fungal counts were well within the normal range for outdoor air in the vicinity of a wastewater treatment plant (Biodet database) with Aspergillus Fumigatus, Gram- negative bacteria, Enterococci and Escherichia coli not detected at any of the sites. The results were approximately half those observed in May 2024.

Sit		Fil	ter 1 Brea	er 1 Breakdown of Total Count Filter 2 Filter 3							
ō	Total Count (CFU/m³)ª	Total Bacteria (CFU/m³)ª	Total Actinomycettes (CFU /m ³)ª	Total Fungi ^ь (CFU /m³)ª	Total Yeasts (CFU/m³)1	Aspergillus Fumigatus ° (CEU /m³)ª	Gram Negative (CFU/m³)ª	Enterococci (CFU /m³)ª	Salmonella Present/Absent	Total Coliforms Present/Absent	Faecal Coliforms Present/Absent
Site 1	177	<3	<3	160	17	<3	<3	<3	Absent	Absent	Absent
Site 2	119	3	<3	71	45	<3	<3	<3	Absent	Absent	Absent
Site 3	253	3	<3	250	<3	<3	<4	<4	Absent	Absent	Absent

a) $CFU/m^3 = Colony$ forming units per cubic meter of air at actual temperature and pressure

b) F/Fungi = Filamentous Fungi

c) Aspergillus fumigatus count is included in the Total Fungi count

Condition 4 - Monitoring of Biofilter

The permit holder shall undertake a comprehensive assessment of the quality of the biofilter media on an annual basis (or more frequently if appropriate).

The results of this assessment, including a summary of the findings, details of any action(s) to be taken to improve the efficiency of the biofilter, and a timetable for those actions to be undertaken, shall be submitted to the Manager, Environmental Regulation, Wellington Regional Council within one month of the assessment being undertaken.

Actions to be undertaken may include, but are not limited to:

- a. Turning, restructuring and dampening of the bed material,
- b. the addition of supplementary bed material, or
- c. total bed material replacement.

The first assessment shall be undertaken within three months of the granting of this permit. Subsequent assessments shall be undertaken annually thereafter.

A biofilter assessment was undertaken in November 2024, received 24 January 2025 and provided to GWRC thereafter.

Condition 10 - Complaints

The permit holder shall keep a permanent record of any complaints received alleging adverse effects from the permit holder's operations. The complaints record shall contain the following where practicable:

- a. the name and address of the complainant, if supplied;
- b. identification of the nature of the complaint;
- c. date and time of the complaint and alleged event;
- d. weather conditions at the time of the alleged event;
- e. results of the permit holder's investigations; and
- f. any mitigation measures adopted.

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

The permit holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council a copy of any complaints recorded in the annual report required by condition (8) of this permit.

There have been no complaints received regarding this resource consent during the reporting period.

Appendix i: Treatment Plant Effluent Flow Rate

		October2024	4	N	ovember 20	24	D	ecember202	24
Day	Average Flow	Peak Flow	Daily Total	Average Flow	Peak Flow	Daily Total	Average Flow	Peak Flow	Daily Total
	L/s	m³/hour	m³	L/s	m³/hour	m³	L/s	m³/hour	m³
1	39	253	3397	40	517	3448	40	304	3448
2	42	290	3615	42	278	3628	36	249	3163
3	42	265	3647	44	278	3833	36	298	3096
4	34	228	2925	43	316	3746	37	263	3192
5	42	300	3633	45	330	3860	35	269	3072
6	48	371	4171	43	299	3747	30	250	2579
7	41	269	3593	38	280	3330	37	261	3217
8	43	281	3710	35	243	3057	49	415	4211
9	42	339	3645	47	351	4039	38	278	3325
10	43	522	3697	45	291	3910	38	281	3307
11	34	283	2991	40	293	3500	37	321	3238
12	39	265	3371	39	504	3349	37	278	3196
13	114	656	9905	37	261	3210	34	253	2980
14	145	864	12582	82	607	7092	35	241	3013
15	85	588	7410	66	605	5731	37	257	3249
16	57	354	4975	57	433	4980	46	460	3975
17	57	328	1596	48	289	4174	37	245	3219
18	44	271	3668	41	351	3581	38	399	3313
19	50	326	4299	41	296	3565	99	500	8606
20	49	314	4285	40	335	3474	57	456	4970
21	45	306	3922	41	273	3568	56	324	4820
22	43	298	3697	37	270	3214	44	290	3839
23	42	287	3672	40	268	3447	40	259	3506
24	41	267	3574	47	297	4049	36	246	3130
25	40	308	3488	39	277	3380	36	233	3151
26	68	458	5928	38	281	3280	39	283	3356
27	45	308	3897	40	411	3495	34	238	2990
28	51	359	4454	38	273	3330	33	246	2904
29	49	306	4220	36	344	3116	30	193	2643
30	51	665	4417	45	273	2456	38	271	3289
31	46	284	2490				54	384	2938
Average	52	362	4351	44	337	3753	41	298	3514

Treatment Plant Effluent Flow Rate

Table 18: Effluent Flow Data

Effluent Pipe Flow Rate

	October 2024			N	ovember 202	24	December 2024		24
Day	Average Flow	Peak Flow	Daily Total	Average Flow	Peak Flow	Daily Total	Average Flow	Peak Flow	Daily Total
	m³/hour	L/s	m³	m³/hour	L/s	m³	m³/hour	L/s	m³
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
12									
12									
14									
15	There was	s no flow d	lata for the	effluent p	ipeline as	the sensor	wasn't fu	nctioning.	
16	- -								
17	I nere was	s an issue	with sense	or readings	s being rec	ceived / red	corded in t	ne SCADA	A system.
18	Remediai	actions ar	e underwa	iy					
19]								
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
Limit	720	200	17 280	720	200	17 280	720	200	17 280
	120	200		120	200	17,200	120	200	17,200

Table 19: Effluent Flow Data

Appendix ii: Outfall Inspection Reports Responses cannot be edited

Western WWTP Outfall Inspection

Thank you for conducting the Western WWTP Outfall Inspection. Please answer the following questions:

* Indi	cates required question
Date	2 *
DD	MM YYYY
11 /	10 / 2024
Is th	ere any signs of leaking or damage to the outfall structure in the water? *
0	Yes
•	No
Is the	ere any oil or grease films, scums, foams, or suspended material beyond a 50 meter radius of * lischarge point?
0	Yes
۲	No
Is the	ere any change in colour or clarity of the water beyond a 50 meter radius of the discharge point? *
0	Yes
0	No

Is there any emissions or objectionable odour beyond a 50 meter radius of the discharge point? *	
⊖ Yes	
No	
Is there any signs of adverse effects on the aquatic life beyond a 50 meter radius of the discharge point?	*
⊖ Yes	
No	
Description of Outfall	
If yes, please descript the damage to the outfall structure below:	
No notable issues at the ocean outfall or flow meter.	

Responses cannot be edited

Western WWTP Outfall Inspection

Thank you for conducting the Western WWTP Outfall Inspection. Please answer the following questions:

* Indicates required question
Date? *
DD MM YYYY
12 / 11 / 2024
Is there any signs of leaking or damage to the outfall structure in the water? *
• Yes
○ No
Is there any oil or grease films, scums, foams, or suspended material beyond a 50 meter radius of the discharge point?
○ Yes
No
Is there any change in colour or clarity of the water beyond a 50 meter radius of the discharge point? *
⊖ Yes
No

Is there any emissions or objectionable odour beyond a 50 meter radius of the discharge point? *	
Ves	
No	
Is there any signs of adverse effects on the aquatic life beyond a 50 meter radius of the discharge point?	×
Ves	
No	
Description of Outfall	
If yes, please descript the damage to the outfall structure below:	
Pipeline leaking into the stream approximately 70m from the high tide line	

Responses cannot be edited

Western WWTP Outfall Inspection Thank you for conducting the Western WWTP Outfall Inspection. Please answer the following questions: * Indicates required question Date? * DD MM YYYY 23 / 12 / 2024 Is there any signs of leaking or damage to the outfall structure in the water? * Yes ()No

Is there any oil or grease films, scums, foams, or suspended material beyond a 50 meter radius of 👘 * the discharge point?

Yes \bigcirc No

Is there any change in colour or clarity of the water beyond a 50 meter radius of the discharge point? st

O Yes	
No No	
Is there any emissions or objectionable odour beyond a 50 meter radius of the discharge point?	?*
Yes	
No No	
Is there any signs of adverse effects on the aquatic life beyond a 50 meter radius of the dischar point?	rge *
⊖ Yes	
No	
Description of Outfall	
If yes, please descript the damage to the outfall structure below:	
Several leaks along the length of the pipeline between Western WWTP and the sea.	

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