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CONTROL SHEET

Document Title: Porirua Wastewater Treatment Plant April - June 2022 Quarterly Resource

Consents Report

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DOCUMENT CONTROL REGISTER

Version	Status	Date	Details of Revision				
0	Draft	20/07/2022	Original version for review.				
1	Final 25/07/2022		Internally reviewed.				

EXECUTIVE SUMMARY

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

WGN980083 [33805]

The Porirua WWTP is governed by the resource consent under the Greater Wellington Regional Council consent file number WGN980083. In general, the consent allows the discharge of treated and partially treated effluent from the Porirua City Council's Wastewater Treatment Plant at Rukutane Point through an existing outfall at or about map reference NZMS 260:R27;320.097.

The report will cover the quarterly period from April to June 2022 as requested in this resource consent. The following is a brief overview of the compliance with the consent conditions:

Resource Consent Condition	Compliant/Non-Compliant/Not Applicable
11	Compliant
13	Compliant
14	Compliant
15	Compliant
18	Compliant
21	Compliant

Table 1: WGN980083 [33805] Resource Consent Condition Compliance

WGN980083 (02)

The Porirua WWTP is governed by the resource consent under the Greater Wellington Regional Council consent file number WGN980083 (02). In general, the consent allows the discharge of contaminants from the Porirua City Council's Wastewater Treatment Plant to the air at the or about map reference NZMS 260: R27;632.096.

The report will cover the quarterly period from April to June 2022 as requested in this resource consent. The following is a brief overview of the compliance with the consent conditions:

Resource Consent Condition	Compliant/Non-Compliant/Not Applicable				
8	Compliant				
9	Compliant				

Table 2: WGN980083 (02) Resource Consent Condition Compliance

WGN980083 (03)

To occupy the coastal marine area with a concrete deflection wall and outfall structures, the resource consent under the Greater Wellington Regional Council consent file number WGN980083 (03) was obtained. There are no reporting requirements for this resource consent.

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WGN980083 [33805]

Condition (11)

After 1 October 2003, the permit holder shall sample the treated effluent at the sample point required by condition 9 and the following effluent standards shall apply:

- Based on daily 24 hour flow proportioned composite sampling, with a running geometric mean and 90
 percentile calculated each day using 90 consecutive daily test results, the effluent shall meet the following
 standard:
 - Biochemical Oxygen Demand: Geometric mean of 90 day consecutive BOD5 values shall not exceed 30g/m³ and no more than 10% of 90 consecutive daily values shall exceed 75g/m³.
 - ii. Suspended Solids: Geometric mean of 90 consecutive daily suspended solids values shall not exceed 30g/m³ and no more than 10% of 90 consecutive daily values shall exceed 75g/m³.
- b. Based on no fewer than 20 representative grab samples per month, (such samples shall be taken from the date of commencement of this permit, on separate days per month between the hours of 9am and 5pm), the effluent shall not exceed the following standard:
 - Faecal Coliform Bacteria: Geometric mean of 1000 per 100 millilitres and no more than 10% of monthly samples shall exceed 2,000 per 100 millilitres.
- c. Based on no fewer than one flow proportioned 24 hour composite sample collected on a normal Monday to Friday working day on a quarterly basis, concentrations of metals and other specified compounds shall not exceed the following limits:

Arsenic	0.5g/m ³
Cadmium as the element	0.05 g/m ³
Chromium	0.2 g/m ³
Copper as the element	0.8 g/m ³
Nickel as the element	0.05 g/m ³
Lead as the element	0.5 g/m ³
Zinc as the element	2.0 g/m ³
Mercury as the element	0.002 g/m ³
Phenol	0.2 g/m ³
Cyanide as CN	0.1 g/m ³
Chlorinated hydrocarbons	0.01 g/m ³

Section (a)

Below is a summary of the geometric mean and 90th percentile for the Biochemical Oxygen Demand and the Suspended Solids daily analytical results.

Please note that clarification was provided by GWRC regarding Condition (11) (a). The methodology adopted in this report will be the 10% of the 90 consecutive days.

(i) Final Effluent Biochemical Oxygen Demand

		April 2022			May 2022		June 2022		
Day	Results	Geometric Mean	Percent Compliance	Results	Geometric Mean	Percent Compliance	Results	Geometric Mean	Percent Compliance
	g/m³	g/m³	%	g/m³	g/m³	%	g/m³	g/m³	%
1	5	4	99	5	5	99	2	5	100
2	4	4	99	8	5	99	13	5	100
3	5	4	99	4	5	99	12	5	100
4	6	4	99	5	5	99	15	5	100
5	8	4	99	4	5	99	13	5	100
6	5	4	99	5	5	99	8	5	100
7	6	4	99	5	5	99	12	5	100
8	5	4	99	4	5	99	10	5	100
9	3	4	99	10	5	99	10	5	100
10	4	4	99	4	5	99	12	5	100
11	5	4	99	10	5	99	11	5	100
12	3	4	99	10	5	99	12	5	100
13	3	4	99	3	5	99	15	5	100
14	3	4	99	4	5	100	5	5	100
15	8	4	99	14	5	100	12	5	100
16	8	4	99	10	5	100	9	5	100
17	4	4	99	6	5	100	7	5	100
18	9	4	99	2	5	100	14	5	100
19	2	4	99	2	5	100	19	6	100
20	3	4	99	9	5	100	4	6	100
21	5	4	99	5	5	100	7	6	100
22	8	5	99	3	5	100	13	6	100
23	9	5	99	4	5	100	7	6	100
24	9	5	99	3	5	100	5	6	100
25	8	5	99	3	5	100	5	6	100
26	3	5	99	3	5	100	10	6	100
27	13	5	99	4	5	100	5	6	100
28	15	5	99	3	5	100	5	6	100
29	4	5	99	2	5	100	4	6	100
30	4	5	99	9	5	100	4	6	100
31	-	-	-	2	5	100	-	-	-
Limits	75	30	90	75	30	90	75	30	90

Table 3: BOD₅ Geometric Mean and Percent Compliance

Please note that analytical results highlighted in amber are above the 30g/m³ geometric mean limit. Analytical results highlighted in red are above the 75g/m³ percent compliance limit.

(ii) Final Effluent Suspended Solids

		April 2022		May 2022			June 2022		
Day	Results	Mean C		Results	Geometric Mean	Percent Compliance	Results	Geometric Mean	Percent Compliance
	g/m³	g/m³	%	g/m³	g/m³	%	g/m³	g/m³	%
1	3	3	99	4	4	99	2	3	100
2	2	3	99	3	4	99	11	4	100
3	3	3	99	8	4	99	9	4	100
4	2	3	99	3	4	99	11	4	100
5	2	3	99	3	4	99	7	4	100
6	4	3	99	3	4	99	8	4	100
7	4	3	99	5	4	99	6	4	100
8	4	3	99	4	4	99	11	4	100
9	3	3	99	11	4	99	12	4	100
10	4	3	99	4	4	99	8	4	100
11	3	3	99	18	4	99	8	4	100
12	2	3	99	14	4	99	13	4	100
13	2	3	99	4	4	99	11	4	100
14	2	3	99	4	3	100	3	4	100
15	4	3	99	19	3	100	10	4	100
16	6	4	99	7	3	100	11	4	100
17	6	4	99	9	3	100	5	4	100
18	4	4	99	2	3	100	11	4	100
19	3	4	99	2	3	100	19	4	100
20	2	4	99	11	3	100	8	4	100
21	4	4	99	6	3	100	4	4	100
22	9	4	99	2	3	100	10	5	100
23	6	4	99	8	3	100	3	5	100
24	4	4	99	4	3	100	3	5	100
25	6	4	99	1	3	100	4	5	100
26	3	4	99	4	3	100	4	5	100
27	4	4	99	5	3	100	4	5	100
28	6	4	99	2	3	100	4	5	100
29	2	4	99	2	3	100	2	5	100
30	3	4	99	9	3	100	1	5	100
31	-	-	-	1	3	100	-	-	-
Limits	75	30	90	75	30	90	75	30	90

Table 4: Suspended Solid Geometric Mean and Percent Compliance

Please note that analytical results highlighted in amber are above the 30g/m³ geometric mean limit. Analytical results highlighted in red are above the 75g/m³ percent compliance limit.

Section (b)

Below is a summary of the geometric mean and percent compliance for faecal coliform analytical results.

In July 2015, an agreement with GWRC was made to use only the first 20 faecal coliform analytical results for compliance purposes. A maximum of two samples above 2,000cfu/100mL are permissible.

		April 2022		May 2022			June 2022			
Day	Results	Geometric Mean	Percent Compliance	Results	Geometric Mean	Percent Compliance	Results	Geometric Mean	Percent Compliance	
	cfu/100mL	cfu/100mL	%	cfu/100mL	cfu/100mL	%	cfu/100mL	cfu/100mL	%	
1	5			4			44			
2	15			12			62			
3	18			13			25			
4	4			11			28			
5	3			4			21			
6	32			12			23			
7	8			2			33			
8	14			3			28			
9	4			42			25			
10	4			23			19			
11	43			16			70			
12	313			48			35			
13	303			32			41			
14	64			2			78			
15	3			6			23			
16	15			27			57			
17	4			14			36			
18	3			25			16			
19	6			10			33			
20	13			150			42			
21	12			14			15			
22	19			7			31			
23	16			18			13			
24	25			50			6			
25	8			12			3			
26	12			56			8			
27	54			84			17			
28	641716			32			20			
29	16125			15			12			
30	3	12	100	73			21	34	100	
31	-	-	-	173	12	100	-	-	-	
Limits	2000	1000	85	2000	1000	85	2000	1000	85	

Table 5: 20 Day Geometric Mean and Percent Compliance

Please note that analytical results highlighted in amber are above the 1000cfu/100mL geometric mean limit. Analytical results highlighted in red are above the 2000g/m³ percent compliance limit.

Section (c)

Below is a summary of the quarterly metals and other specified compounds analytical results.

Compound	Units	Limit	04/04/2022
Arsenic	g/m³	0.5	0.001
Cadmium as the element	g/m³	0.05	0.000
Chromium	g/m³	0.2	0.002
Copper as the element	g/m³	0.8	0.002
Nickel as the element	g/m³	0.05	0.020
Lead as the element	g/m³	0.5	0.001
Zinc as the element	g/m³	2.0	0.000
Mercury as the element	g/m³	0.002	0.000
Phenol	g/m³	0.2	0.002
Cyanide as CN	g/m³	0.1	0.005
Chlorinated g/m³		0.01	See Appendix ii

Table 6: Analytical Results for Quarterly Metals and other Specified Compounds

For full analytical results of the metals and other specified compounds as well as the breakdown of the chlorinated hydrocarbons see Appendix ii: Heavy Metals and Specified Compounds Results.

Condition 13

The discharge shall not cause any of the following effects in the receiving waters beyond a 200 metre radius (the mixing zone) of the Rukutane Point outfall:

- a. The production of any conspicuous oil or grease films, scums or foams, or floatable or suspended material;
- b. Any conspicuous change in the colour or visual clarity of water;
- c. Any adverse effect on marine aquatic life.

Paragraphs (a) and (b) of this condition shall not apply to discharges during times of plant overflow or plant bypass. Paragraph (b) shall not apply to changes in colour or visual clarity of water which occur as a result of a freshwater lens on the surface of receiving water.

When shoreline samples are collected for Condition (14) an inspection is performed for conditions 13(a) and 13(b). The results of these inspections can be made available upon request.

Condition 14

The permit holder shall monitor the enterococci and faecal coliform contents of the receiving waters at six shoreline locations between Titahi Bay Beach and Te Korohiwa Rocks. The shoreline monitoring locations shall include the following sites:

- At or about 200 metres generally eastwards of the outfall;
- At or about 200 metres generally southwestwards of the outfall; and
- Titahi Bay Beach

In addition, the permit holder shall establish a sample control site and measure background enterococci and faecal coliform contents of the coastal waters. All sampling locations shall be to the satisfaction of the Manager, Consents management, Wellington Regional Council.

Please note that the original control site posed a health and safety issue for the technician when collecting the sample. A meeting was held with GWRC on site 29th August 2019 regarding the relocation of the control site sampling location. GWRC agreed to the new sample location via email on 12th September 2019 so the new control site is at the end of Whitireia Road. The following is a list of the seven sampling points and a map of their locations:

Sampling Point 1 - Te Korohiwa Rocks

Sampling Point 2 - West of Outfall

Sampling Point 3 - East of Outfall

Sampling Point 4 - Titahi Bay Beach South

Sampling Point 5 - Titahi Bay Beach

Sampling Point 6 - Mount Cooper

Control Point - Whitireia Park

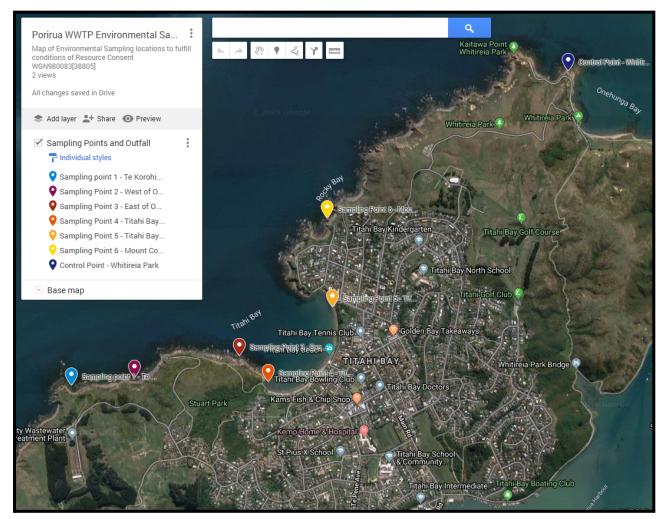


Figure 1: Shoreline Monitoring Sampling Sites

Condition 15

The water at all sampling locations required by condition 14 shall be monitored for enterococci and faecal coliforms at least three monthly. Between 1 April and 30 September and monthly between 1 October and 31 march, until such time as any new disinfection plant is commissioned. For the first 12 months after commissioning such monitoring shall be carried out on at least a monthly basis. Thereafter, the monitoring may be at such reduced intensity as determined by the Manager, Consents Management, Wellington Regional Council.

In the event of a discharge of partly or untreated sewage effluent due to either *plant malfunction*, or *plant overflow*, or *plant bypass*, the above said waters shall further be monitored at or about 24 hours, 72 hours, and 144 hours after that discharge commenced.

For each water sample required by this condition, the permit holder shall make a record of the date, time, weather, wind and tidal conditions at its sampling location. These records for each preceding quarter shall be supplied to the Manager, Consents Management, Wellington Regional Council, in the quarterly monitoring report required by condition 17.

Shoreline samples are collected from all the sampling locations mentioned in Condition (14) during bypass or overflow events 24 hours, 72 hours, 144 hours after the discharge if there are no health and safety concerns. During a meeting with GWRC on the 29th August 2019, the interpretation of this condition by the resource consent office differed from the previous consent officer. It is now a requirement to collect a set of samples from the sampling locations once a month to comply with Condition (15). Prior to this, any bypass sampling was counted as the month sample.

Below is a summary of the bypass and overflow events that have occurred each month during this reporting quarter. The breakdown for each month and explanation of the events can be found in Condition (21). The results from each set of samples collected can be found in Appendix i: Shoreline Monitoring Data. Analytical results from each set of samples collected can be made available upon request.

Month	Bypass/Overflow Events					
WiOiitii	Consented	Non-Consented				
June	1	0				

Table 7: Monthly Bypass and Overflow Events

Please note that shoreline monitoring was not initiated for bypass discharge events where the volume was less than 1,000m³, as agreed with GWRC.

Condition 18

Notwithstanding any enforcement action Wellington Regional Council may choose to take, should the criteria set out in conditions 10 or 11 be exceeded or breached, or the effects in condition 13 (a) – (c) be caused by the discharge, the permit holder shall undertake the following:

- Immediately notify the Manager, Consents Management, Wellington Regional Council.
- Immediately investigate the reason why the criteria was exceeded.
- Immediately identify and undertake whatever appropriate remedial action to the satisfaction of the Manager, Consents Management, Wellington Regional Council, to mitigate the effects.
- Forward within five working days to the Manager, Consents Management, Wellington Regional Council, a report on the steps taken to ensure that the criteria are not breached in the future.

None of the conditions have been exceeded or breached during the April to June 2022 reporting period.

Condition 21

In the event of a plant malfunction or the discharge of untreated or partially treated effluent, the permit holder shall:

- Immediately notify both the Manager, Consents Management, Wellington Regional Council, and the Public Health Service.
- If required by Manager, Consents Management, Wellington Regional Council, provide within 48 hours a
 written report to the Manager, detailing manner and cause of the malfunction and the nature of the
 released effluent, and the steps taken (and being taken if appropriate) to remedy and control that
 discharge, and to prevent any such releases of untreated or partially treated effluent.

Date	Date of Notification	Duration	Volume Treated During Bypass	Total Volume of Bypass	Dilution Ratio	Consented	Cause	Monitoring Results
dd/ mmm/ Уууу	dd/ mmm/ Уууу	hrs:mins	m³	m³	ı	Y/N		Results
9/06/2022	9/06/2022	11:35	40425	5009	8:1	Y	High rainfall within the catchment leading to higher inflows than the plant is designed for	Notifications submitted and sampling undertaken.

Table 8: Discharge Events

WGN980083 (02)

Condition 8

If required by the Manager, Consents Management, Wellington Regional Council, the permit holder shall carry out monitoring of air-borne pathogens to demonstrate compliance with condition 6 or 7. The monitoring shall be undertaken at six monthly intervals and the results forwarded to the Manager, Consents Management, Wellington Regional Council within one month of each survey being conducted. The location of the sample site shall be mutually agreed by the permit holder and the Manager, Consents Management, Wellington Regional Council. The survey shall be carried out by a standard method to the satisfaction of the Manager, Consents Management, Wellington Regional Council.

The Manager, Consents Management, Wellington Regional Council has not requested these surveys be performed.

Condition 9

The permit holder shall keep a record of any complaints received. The complaints will be forwarded to the Manager, Consents Management, Wellington Regional Council, within twenty-four hours of the complaint being received by the permit holder. The permit holder shall endeavour to record the complainant's name, time of the incident, wind direction and speed, as well as the plant operating conditions at the time of the complaint.

There have been no complaints during the April to June 2022 reporting period.

APPENDIX I: Shoreline Monitoring Data

Te Korohiwa Rocks

Date	Time	Enterococci	Faecal Coliforms	Wind Direction	Wind Strength	Tide	Sea Conditions	WWTP Bypass/Overflow Event	Possible Source (if out of spec)
dd/mm/yyyy	hh:mm	cfu/100mL	cfu/100mL		-			Y/N	
9/06/2022	17:30	160.0	31	NW	Moderate	Low	Ebb	Y - 24hr	N/A
11/06/2022	17:01	74.0	58	N	Moderate	Mid	Ebb	Y - 72hr	N/A
14/06/2022	17:36	2.0	8	NE	Light	High	Ebb	Y - 144hr	N/A

200m West of Outfall

Date	Time	Enterococci	Faecal Coliforms	Wind Direction	Wind Strength	Tide	Sea Conditions	WWTP Bypass/Overflow Event	Possible Source (if out of spec)
dd/mm/yyyy	hh:mm	cfu/100mL	cfu/100mL		1	1	-	Y/N	
9/06/2022	18:33	38	18	NW	Moderate	Low	Ebb	Y - 24hr	N/A
11/06/2022	15:50	88	52	N	Moderate	Mid	Ebb	Y - 72hr	N/A
14/06/2022	16:06	34	18	NE	Light	High	Ebb	Y - 144hr	N/A

200m East of Outfall

Date	Time	Enterococci	Faecal Coliforms	Wind Direction	Wind Strength	Tide	Sea Conditions	WWTP Bypass/Overflow Event	Possible Source (if out of spec)
dd/mm/yyyy	hh:mm	cfu/100mL	cfu/100mL		-			Y/N	-
9/06/2022	19:10	130	25	NW	Moderate	Low	Ebb	Y - 24hr	N/A
11/06/2022	15:26	110	62	N	Moderate	Mid	Ebb	Y - 72hr	N/A
14/06/2022	16:22	22	30	NE	Light	High	Ebb	Y - 144hr	N/A

Titahi Bay Beach South

Date	Time	Enterococci	Faecal Coliforms	Wind Direction	Wind Strength	Tide	Sea Conditions	WWTP Bypass/Overflow Event	Possible Source (if out of spec)
dd/mm/yyyy	hh:mm	cfu/100mL	cfu/100mL		-			Y/N	
9/06/2022	18:25	2200	1300	NW	Moderate	Low	Ebb	Y - 24hr	N/A
11/06/2022	15:41	360	140	N	Moderate	Mid	Ebb	Y - 72hr	N/A
14/06/2022	15:58	130	32	NE	Light	High	Ebb	Y - 144hr	N/A

Titahi Bay Beach

Date	Time	Enterococci	Faecal Coliforms	Wind Direction	Wind Strength	Tide	Sea Conditions	WWTP Bypass/Overflow Event	Possible Source (if out of spec)	
dd/mm/yyyy	hh:mm	cfu/100mL	cfu/100mL			-		Y/N	-	
9/06/2022	18:16	170	86	NW	Moderate	Low	Ebb	Y - 24hr	N/A	
11/06/2022	16:07	14	22	N	Moderate	Mid	Ebb	Y - 72hr	N/A	
14/06/2022	16:25	30	26	NE	Light	High	Ebb	Y - 144hr	N/A	

Mount Cooper

Date	Time	Enterococci	Faecal Coliforms	Wind Direction	Wind Strength	Tide	Sea Conditions	WWTP Bypass/Overflow Event	Possible Source (if out of spec)
dd/mm/yyyy	hh:mm	cfu/100mL	cfu/100mL	-	-			Y/N	-
9/06/2022	18:55	64	54	NW	Moderate	Low	Ebb	Y - 24hr	N/A
11/06/2022	15:00	260	88	N	Moderate	Mid	Ebb	Y - 72hr	N/A
14/06/2022	17:51	68	20	NE	Light	High	Ebb	Y - 144hr	N/A

Control

Date	Time	Enterococci	Faecal Coliforms	Wind Direction	Wind Strength	Tide	Sea Conditions	WWTP Bypass/Overflow Event	Possible Source (if out of spec)
dd/mm/yyyy	hh:mm	cfu/100mL	cfu/100mL					Y/N	
9/06/2022	17:55	86	100	S	Moderate	Low	Flood	Y - 24hr	N/A
11/06/2022	16:36	68	50	NW	Light	Low	Ebb	Y - 72hr	N/A
14/06/2022	16:55	66	12	SE	Light	Low	Ebb	Y - 144hr	N/A

Please note that bathing beach guidelines were used to generate the colouring for the Enterococci samples. Because there are no bathing beach guidelines for faecal coliforms, fresh water guidelines were applied. The following are the limits for both bacterial species:

Bacterial Species	Amber Limit	Red Limit		
Bacterial Species	cfu/100mL	cfu/100mL		
Enterococci	140	280		
Faecal Coliforms	260	550		

APPENDIX II: Heavy Metals and Specified Compounds



Watercare Services Limited

52 Aintree Ave, Mangere, Auckland, 2022 PO Box 107028, Auckland, 2150 T: (09) 539 7600 clientsupport@water.co.nz www.watercarelabs.co.nz

Certificate of Analysis Laboratory Reference:220404-008

Attention:Colin GerrardFinal Report:456009-0Client:VEOLIA WATERReport Issue Date:13-Apr-2022Address:127 Stewart Duff Drive, Rongotai, Wellington, 6022Received Date:05-Apr-2022

Client Reference: Laboratory Activity Dates: 07-Apr-2022 - 13-Apr-2022

Purchase Order: 7300176080 Quote Reference : 11592

Sample Details	WATERS	
Lab Sample ID:	220404-008-1	
Client Sample ID:		
Sample Date/Time	04/04/2022 06:30	
Description:	Porirua Effluent	
	Composite 1Quaterly	
General Testing		
Total Cyanide mg/L	<0.005	
Metals		
Total Metals by ICP-MS—Trace (Default Digest)		
Arsenic (Total) mg/L	0.00098	
Cadmium (Total) mg/L	<0.00005	
Chromium (Total) mg/L	0.0022	
Copper (Total) mg/L	0.0016	
Lead (Total) mg/L	0.00015	
Mercury (Total) mg/L	<0.00005	
Nickel (Total) mg/L	0.00072	
Zinc (Total) mg/L	0.02	
Organics		
Phenois (Recoverable) by Gas Chromatography-Mass	Spectrometry(Trace level	1)
2,3,4,6-tetrachlorophenol mg/L	<0.001	
2,4,5-trichlorophenol mg/L	<0.001	
2,4,6-trichlorophenol mg/L	<0.004	
2,4-dichlorophenol mg/L	<0.001	
2,4-dimethylphenol mg/L	<0.001	
2,6-dichlorophenol mg/L	<0.001	
2-chlorophenol mg/L	<0.001	
2-methyl 4,6-dinitrophenol mg/L	<0.001	
2-methylphenol mg/L	<0.001	
2-nitrophenol mg/L	<0.002	
4-Chloro-3-methylphenol mg/L	<0.001	
4-methylphenol mg/L	<0.001	
Pentachlorophenol mg/L	<0.001	
Phenol mg/L	<0.002	
VOC by Gas Chromatography-Mass Spectrometry (Tra		
1-1-1-2-tetrachloroethane mg/L	<0.001	
1-1-1-trichloroethane mg/L	<0.001	
1-1-2-2-tetrachloroethane mg/L	<0.001	
1-1-2-trichloroethane mg/L 1-1-dichloroethane mg/L	<0.001	
	<0.001	
	<0.005 <0.001	
1-1-dichloropropene mg/L 1-2-3-trichlorobenzene mg/L	<0.001	
1-2-3-trichloropropane mg/L	<0.001	
1-2-4-trichlorobenzene mg/L	<0.001	
- 1 a long obolizatio	-0.001	



Sample Details (continued)		WATERS	
Lab Sample ID:		220404-008-1	
Client Sample ID:			
Sample Date/Time:		04/04/2022 06:30	
Description:		Porirua Effluent	
		Composite 1Quaterly	
Organics		an Investigation	
VOC by Gas Chromatography-Mass Specification 1-2-4-trimethylbenzene	mg/L	<0.001	
1-2-dibromo-3-chloropropane	mg/L	<0.001	
1-2-dibromoethane	mg/L	<0.001	
1-2-dichlorobenzene	mg/L	<0.001	
1-2-dichloroethane	mg/L	<0.001	
1-2-dichloroethene (cis and trans)	mg/L	<0.0020	
1-2-dichloropropane	mg/L	<0.001	
1-3-5-trimethylbenzene	mg/L	<0.001	
1-3-dichloropenzene	mg/L	<0.001	
1-3-dichloropropane1-3-dichloropropene (cis and trans)	mg/L mg/L	<0.001 <0.0020	
1-4-dichlorobenzene	mg/L	<0.0020	
2-2-dichloropropane	mg/L	<0.001	
2-chlorotoluene	mg/L	<0.001	
4-chlorotoluene	mg/L	<0.001	
benzene	mg/L	<0.001	
bromobenzene	mg/L	<0.001	
Bromodichloromethane to MAV Ratio		0.00	
bromodichloromethane	mg/L	<0.001	
Bromoform to MAV Ratio bromoform	mg/L	0.00	
bromomethane	mg/L	<0.001 <0.005	
carbon tetrachloride	mg/L	<0.003	
chlorobenzene	mg/L	<0.001	
Chloroform to MAV Ratio		0.00	
chloroform	mg/L	<0.001	
chloromethane	mg/L	<0.005	
cis-1-2-dichloroethylene	mg/L	<0.001	
cis-1-3-dichloropropene	mg/L	<0.001	
Dibromochloromethane to MAV Ratio	ma/l	0.00	
dibromochloromethane dibromomethane	mg/L mg/L	<0.001 <0.001	
dichlorodifluoromethane	mg/L	<0.001 <0.005	
ethylbenzene	mg/L	<0.005	
ethylchloride	mg/L	<0.001	
fluorotrichloromethane	mg/L	<0.001	
hexachlorobutadiene	mg/L	<0.001	
iso-propylbenzene	mg/L	<0.001	
m- & p-xylene	mg/L	<0.001	
methylene chloride	mg/L mg/L	<0.005	
naphthalene n-butylbenzene	mg/L mg/L	<0.001 <0.001	
n-propylbenzene	mg/L	<0.001	
o-xylene	mg/L	<0.001	
p-isopropyl toluene	mg/L	<0.001	
sec-butylbenzene	mg/L	<0.001	
styrene	mg/L	<0.001	
tert-butyl benzene	mg/L	<0.001	
tetrachloroethylene	mg/L	<0.001	
THM Ratio	× 41	0.00	
toluene trans-1-2-dichloroethene	mg/L mg/L	<0.001 <0.001	
trans-1-2-dichloropropene	mg/L	<0.001 <0.001	
trichloroethylene	mg/L	<0.001	
vinyl chloride	mg/L	<0.001	
-	ı		

Sample Details (continued)	WATERS				
Lab Sample ID:	220404-008-1				
Client Sample ID:					
Sample Date/Time:	04/04/2022 06:30				
Description:	Porirua Effluent				
	Composite 1Quaterly				
Organics Control of the Control of t					
VOC by Gas Chromatography-Mass Spectrometry (Trace level)					

VOC by Gas Chromatography-Mass Spectrometry (Trac	ce level)			
Xylenes (total) mg/L	<0.0020			
Results marked with * are not accre	dited to International Accreditation New Zealand. A da	sh indicates no test pe	erformed.	
The results of analysis contained in this report relate	es have been supplied by the client, they are tested as e only to the sample(s) tested. Where sample collection ontained in this report relate only to the sample(s) coll	n was performed by the	e laboratory, the re	sults of
Reference Methods The sample(s) referred to in this report were analysed by	the following method(s)			
Analyte	Method Reference	MDL	Samples	Location
General Testing				
Total Cyanide by Distillation and Colorimetry/Discrete Analyser	APHA (online edition) 4500-CN C & E (modifie d)	0.005 mg/L	All	Auckland
Metals				
Total Metals by ICP-MS—Trace (Default Digest)				
Arsenic (Total)	APHA (online edition) 3125 B by ICPMS	0.00010 mg/L	All	Auckland
Cadmium (Total)	APHA (online edition) 3125 B by ICPMS	0.00005 mg/L	All	Auckland
Chromium (Total)	APHA (online edition) 3125 B by ICPMS	0.0005 mg/L	All	Auckland
Copper (Total)	APHA (online edition) 3125 B by ICPMS	0.0002 mg/L	All	Auckland
Lead (Total)	APHA (online edition) 3125 B by ICPMS	0.00010 mg/L	All	Auckland
Mercury (Total)	APHA (online edition) 3125 B by ICPMS	0.00005 mg/L	All	Auckland
Nickel (Total)	APHA (online edition) 3125 B by ICPMS	0.00010 mg/L	All	Auckland
Zinc (Total)	APHA (online edition) 3125 B by ICPMS	0.001 mg/L	All	Auckland
Organica				
Organics Phonols (Pacayorable) by Gas Chromatography Mass	Spectrometry/Trace level\			
Phenols (Recoverable) by Gas Chromatography-Mass 9 2,3,4,6-tetrachlorophenol	Micro SPE, GC-MSD	0.001 mg/L	All	Auckland
2,4,5-trichlorophenol	Micro SPE, GC-MSD	0.001 mg/L	All	Auckland
2,4,6-trichlorophenol	Micro SPE, GC-MSD	0.004 mg/L	All	Auckland
2,4-dichlorophenol	Micro SPE, GC-MSD	0.004 mg/L	All	Auckland
2,4-dimethylphenol	Micro SPE, GC-MSD	0.001 mg/L	All	Auckland
2,6-dichlorophenol	Micro SPE, GC-MSD	0.001 mg/L	All	Auckland
2-chlorophenol	Micro SPE, GC-MSD	0.001 mg/L	All	Auckland
2-methyl 4,6-dinitrophenol	Micro SPE, GC-MSD	0.001 mg/L	All	Auckland
2-methylphenol	Micro SPE, GC-MSD	0.001 mg/L	All	Auckland
2-nitrophenol	Micro SPE, GC-MSD	0.002 mg/L	All	Auckland
4-Chloro-3-methylphenol	Micro SPE, GC-MSD	0.001 mg/L	All	Auckland
4-methylphenol	Micro SPE, GC-MSD	0.001 mg/L	All	Auckland
Pentachlorophenol	Micro SPE, GC-MSD	0.001 mg/L	All	Auckland
Phenol	Micro SPE, GC-MSD	0.002 mg/L	All	Auckland
	·		·-	
VOC by Gas Chromatography-Mass Spectrometry (Trac	APHA (online edition) 6200 B (Purge and Trap	0.00010 mg/L	All	Auckland
Sadomorodiano) Modified	0.000 TO HIG/L	7 111	, workering
1-1-1-trichloroethane	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
1-1-2-2-tetrachloroethane	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
1-1-2-trichloroethane	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
1-1-dichloroethane	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
1-1-dichloroethene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.0005 mg/L	All	Auckland
1-1-dichloropropene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
1-2-3-trichlorobenzene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland

VOC by Oas Chromatography-Meas Spectrometry (Trace level) 2-2 delictionspectrum 1 Monifered 1 Monifered 1 Monifered 2-2 delictionspectrum 1 Monifered 2-2 delictionspectrum 1 Monifered 2-2 delictionspectrum 2-2 delictionspect	Organics									
Monified	VOC by Gas Chromatography-Mass Spectrometr	y (Trace level)								
1-2-4-infoliochemenne APPA (polline edition) 9200 B (Purge and Trap 1-2-4-infoliochemenne 1-2-	1-2-3-trichloropropane	, , , , , ,	0.00010 mg/L	All	Auckland					
1.2.4 drimenty/betweene	1-2-4-trichlorobenzene	APHA (online edition) 6200 B (Purge and Trap	0.00010 mg/L	All	Auckland					
1.2-distromopeame	1-2-4-trimethylbenzene	APHA (online edition) 6200 B (Purge and Trap	0.00010 mg/L	All	Auckland					
1-2-dischoroscherabee APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland 1-2-dischoroberzanee APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland 1-2-dischoroberabee (cis and trans) APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland 1-2-dischoroberabee (cis and trans) APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland 1-2-dischoroberabee (cis and trans) APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland 1-2-dischoroberabee (as and trans) APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland 1-2-dischoroberabee APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland 1-3-dischoroberabee APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland 1-3-dischoroberabee APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland 1-3-dischoroberabee APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland 1-3-dischoroberabee APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland 1-3-dischoroberabee APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland 1-3-dischoroberabee APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland APHA (online edition) \$200 B (Purge and Trap 0.00010 mgL Al Auckland	1-2-dibromo-3-chloropropane	APHA (online edition) 6200 B (Purge and Trap	0.00010 mg/L	All	Auckland					
12-dichiorobenzenen	1-2-dibromoethane	APHA (online edition) 6200 B (Purge and Trap	0.00010 mg/L	All	Auckland					
1.2-dichitoroetheme (cis and trans)	1-2-dichlorobenzene	, , ,	0.00010 mg/L	All	Auckland					
1.2-dichlorogropane APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland 1-3-dichlorogropane APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland 1-3-dichlorobenzene APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland 1-3-dichloropropane APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland 1-3-dichloropropane APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland 1-3-dichloropropane (cis and trans) Modified APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland	1-2-dichloroethane	, , , , , ,	0.00010 mg/L	All	Auckland					
Notified APPH (online edition) 5200 B (Purge and Trap 0.00010 mg/L All Auckland 1-3-dichlorobenzene APPH (online edition) 5200 B (Purge and Trap 0.00010 mg/L All Auckland 1-3-dichloropropene (cis and trans) Modified 1-3-dichloropropene (cis and trans) Modified 1-3-dichloropropene (cis and trans) Modified Modified 1-3-dichloropropene (cis and trans) Modified Modified Modified 1-3-dichloropropene (cis and trans) Modified Mo	1-2-dichloroethene (cis and trans)	, , , ,	0.0002 mg/L	All	Auckland					
Modified APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland 1-3-dichibropropane APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland 1-3-dichibropropane APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland 1-4-dichibropropane APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland 1-4-dichibropropane APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.00010 mg/L All Auckland APHA (online edition) 8200 B (Purge and Trap 0.	1-2-dichloropropane	, , , , , ,	0.00010 mg/L	All	Auckland					
Modified APHA (online edition) 6200 B (Purge and Trap 0.00010 mg/L All Auckland	1-3-5-trimethylbenzene	, , ,	0.00010 mg/L	All	Auckland					
3 Modified APHA (conline edition) \$200 B (Purge and Trap 0.0002 mg/L All Auckland 1.4-dichloroptopane APHA (conline edition) \$200 B (Purge and Trap 0.0002 mg/L All Auckland 3 Modified APHA (conline edition) \$200 B (Purge and Trap 0.0005 mg/L All Auckland 3 Modified Action APHA (conline edition) \$200 B (Purge and Trap 0.0001 mg/L All Auckland 3 Modified Action APHA (conline edition) \$200 B (Purge and Trap 0.00010 mg/L All Auckland 3 Modified Action APHA (conline edition) \$200 B (Purge and Trap 0.00010 mg/L All Auckland 3 Modified Action APHA (conline edition) \$200 B (Purge and Trap 0.00010 mg/L All Auckland 3 Modified Action APHA (conline edition) \$200 B (Purge and Trap 0.00010 mg/L All Auckland 3 Modified APHA (conline edition) \$200 B (Purge and Trap 0.00010 mg/L All Auckland 3 Modified APHA (conline edition) \$200 B (Purge and Trap 0.00010 mg/L All Auckland 3 Modified APHA (conline edition) \$200 B (Purge and Trap 0.00010 mg/L All Auckland 3 Modified APHA (conline edition) \$200 B (Purge and Trap 0.00010 mg/L All Auckland 3 Modified APHA (conline edition) \$200 B (Purge and Trap 0.00010 mg/L All Auckland 3 Modified APHA (conline edition) \$200 B (Purge and Trap 0.00010 mg/L All Auckland 3 Modified APHA (conline edition) \$200 B (Purge and Trap 0.00010 mg/L All Auckland 3 Modified APHA (conline edition) \$200 B (Purge and Trap 0.00010 mg/L All Auckland 3 Modified APHA (conline edition) \$200 B (Purge and Trap 0.00010 mg/L All Auckland 3 Modified APHA (conline edition) \$200 B (Purge and Trap 0.00010 mg/L All Auckland 3 Modified APHA (conline edition) \$200 B (Purge and Trap 0.00010 mg/L All Auckland 3 Modified 3 Modifie	1-3-dichlorobenzene	, , , , , ,	0.00010 mg/L	All	Auckland					
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A-chlorotoluene APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified bromobenzene APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified bromobenzene APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified Bromodichloromethane to MAV Ratio APHA (online edition) 6200 B (Purge and Trap) 0.1 All Auckland) Modified bromodichloromethane to MAV Ratio APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified bromodichloromethane APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified bromodichloromethane APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified bromodichloromethane APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified bromodichloromethane APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified bromodichloromethane APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified chlorobenzene APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified chlorobenzene APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified Chlorobenzene APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified Chlorobenzene APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified Chloroform to MAV Ratio APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified Chloromethane APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified Chloromethane APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified Chloromethane APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified Chloromethane APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified Chloromethane APHA (online edition) 6200 B (Purge and Trap) 0.00010 mg/L All Auckland) Modified Chlorometh	2-2-dichloropropane	, , , , , ,	0.0005 mg/L	All	Auckland					
benzene APHA (online edition) 6200 B (Purge and Trap	2-chlorotoluene	, , , ,	0.00010 mg/L	All	Auckland					
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Dibromochloromethane to MAV Ratio APHA (online edition) 6200 B (Purge and Trap 0.1 All Auckland) Modified dibromochloromethane APHA (online edition) 6200 B (Purge and Trap 0.00010 mg/L All Auckland) Modified dibromomethane APHA (online edition) 6200 B (Purge and Trap 0.00010 mg/L All Auckland) Modified dichlorodifluoromethane APHA (online edition) 6200 B (Purge and Trap 0.0005 mg/L All Auckland) Modified	cis-1-2-dichloroethylene	, , , , , , , , , , , , , , , , , , , ,	0.00010 mg/L	All	Auckland					
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dibromomethane APHA (online edition) 6200 B (Purge and Trap 0.00010 mg/L All Auckland) Modified dichlorodifluoromethane APHA (online edition) 6200 B (Purge and Trap 0.0005 mg/L All Auckland) Modified	Dibromochloromethane to MAV Ratio	, , , , , , , , , , , , , , , , , , , ,	0.1	All	Auckland					
) Modified dichlorodifluoromethane APHA (online edition) 6200 B (Purge and Trap 0.0005 mg/L All Auckland) Modified	dibromochloromethane	, , , , , ,	0.00010 mg/L	All	Auckland					
) Modified	dibromomethane	, , , , , , , , , , , , , , , , , , , ,	0.00010 mg/L	All	Auckland					
ABUAY P. RELATION D. LET	dichlorodifluoromethane	, , , , , , , , , , , , , , , , , , , ,	0.0005 mg/L	All	Auckland					
ethylbenzene APHA (online edition) 6200 B (Purge and Trap 0.00010 mg/L All Auckland) Modified	ethylbenzene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland					

Organics				
VOC by Gas Chromatography-Mass Spectrometry (Trace level)				
ethylchloride	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
fluorotrichloromethane	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
hexachlorobutadiene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
iso-propylbenzene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
m- & p-xylene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
methylene chloride	APHA (online edition) 6200 B (Purge and Trap) Modified	0.0005 mg/L	All	Auckland
naphthalene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
n-butylbenzene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
n-propylbenzene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
o-xylene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
p-isopropyl toluene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
sec-butylbenzene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
styrene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
tert-butyl benzene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
tetrachloroethylene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
THM Ratio	APHA (online edition) 6200 B (Purge and Trap) Modified	0.1	All	Auckland
toluene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
trans-1-2-dichloroethene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
trans-1-3-dichloropropene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
trichloroethylene	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
vinyl chloride	APHA (online edition) 6200 B (Purge and Trap) Modified	0.00010 mg/L	All	Auckland
Xylenes (total)	APHA (online edition) 6200 B (Purge and Trap) Modified	0.0002 mg/L	All	Auckland
Preparations				
Digest for Total Metals in Liquids	APHA 3030E Modified (4:1 Nitric:Hydrochloric Acid: 95°C 2 hours)		All	Auckland

The method detection limit (MDL) listed is the limit attainable in a relatively clean matrix. If dilutions are required for analysis the detection limit may be higher. For more information please contact the Compliance and Projects Manager.

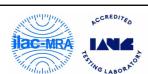
Samples, with suitable preservation and stability of analytes, will be held by the laboratory for a period of two weeks after results have been reported, unless otherwise advised by the submitter.

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Peter Boniface KTP Signatory

Hornfare



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