



Veolia Water Services (ANZ) Pty Ltd

MOA POINT WASTEWATER TREATMENT PLANT AMBIENT MICROBE
MONITORING, FEBRUARY 2025

Issue

March 2025

Veolia Water Services (ANZ) Pty Ltd

MOA POINT WASTEWATER TREATMENT PLANT AMBIENT MICROBE MONITORING, FEBRUARY 2025

Issue

March 2025


Source Testing New Zealand Ltd
PO Box 32 017
Maungaraki
Lower Hutt 5010
Tel: 0275 533 210
Fax: 04 569 4446

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Document history and status

Revision	Date issued	Issued by	Reviewed by	Date reviewed	Revision type
Final Draft	17 March 2025	M. Newby	S. van Soest – Quality Consultant	18 March 2025	Minor amendments
Issue	19 March 2025	M. Newby			

Approved by

Name	Title	Signature
Matthew Newby, KTP, CAQP	Senior Air Quality Scientist	

Distribution of copies

Revision	Date Issued	Issue By	Issued to
Issue	19 March 2025	M Newby, KTP, CAQP	Veolia Water Services (ANZ) Pty Ltd Seaview Wastewater Treatment Plant 8 Waterman St Seaview Lower Hutt

Printed:	19 March 2025
Last saved:	19 March 2025 09:17 AM
File name:	C:\OMN\STNZ\Clients\Veolia\Ambient Microbes\Ambient Microbes 2025\Moa Pt WWTP\Deliverables\Veolia Moa Pt Ambient Microbe Monitoring February 2025 Issue.docx
Author:	M. Newby
Name of organisation:	Veolia Water Services (ANZ) Pty Ltd
Name of project:	Moa Point Wastewater Treatment Plant Ambient Microbe Monitoring, February 2025
Name of document:	Moa Point Wastewater Treatment Plant Ambient Microbe Monitoring, February 2025
Document version:	Issue
Project number:	ST1253

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SOURCE TESTING NZ

1. Executive Summary

Source Testing New Zealand Limited (STNZ) was commissioned by Veolia Water Services (ANZ) Pty Ltd (Veolia) to undertake ambient microbe monitoring in the vicinity of the Moa Point Wastewater Treatment Plant (WWTP). The objective of the monitoring was for compliance purposes with Condition 7 of the Company's Resource Consent (WGN080003[26183]) stipulating the following:

“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 Manager, Environmental Regulation, Wellington Regional Council within three months of the granting of this permit. Tests are to be carried out at a minimum of three sites down and three sites upwind of the plant, with at least one in the vicinity of the Air New Zealand kitchens and one at a level of Kekerenga Street. The other sites are to be located outside of/and within 100 meters of the site boundary.”

The results of the Moa Pt WWTP ambient microbe monitoring conducted on 27 February 2025 are presented in Table 1 and confirms the absence of *Salmonella* and Faecal Coliforms. The microbiological counts at all sites were within the guidelines for a wastewater treatment plant (Biodet Data Base) with no *Aspergillus Fumigatus*, Gram-negative, or Enterococci identified.

While the levels of microbes were within the guidelines, the concentrations at Site 6 were second highest recorded with only the sample collected prior to relocating being higher due to the presence of a new chicken coup. Sites 3 and 4 were also elevated compared to the remaining site. The results were significantly higher than observed in April and August 2024, with Sites 4 & 6 consistently elevated compared to the remaining sites.

The results of the Moa Pt WWTP ambient microbe monitoring appear to indicate the levels at the majority of sites have increased since the beginning of 2024 which correlates with the start of the construction of the Sludge Minimisation Facility (SMF). Site 6 has had the greatest increases while the Air New Zealand kitchens site (Site 5) remains consistent with previous years. Site 6 is on Kekerenga Street (Site 6) and was selected to assess the local community experience and the data suggest the level of exposure has increased since the construction of the SMF commenced.

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■ **Table 1: Moa Pt WWTP Ambient Microbes Monitoring, 27 February 2025**

Site	Total Count (CFU/m ³) ¹	Filter 1 Breakdown of Total Count					Filter 2		Filter 3		
		Total Bacteria (CFU/m ³) ^a	Total Actinomyces (CFU/m ³) ^a	Total Fungi ^b (CFU/m ³) ^a	Total Yeasts (CFU/m ³) ^a	Aspergillus Fumigatus ^c (CFU/m ³) ^a	Gram Negative (CFU/m ³) ^a	Enterococci (CFU/m ³) ^a	Salmonella Present/Absent	Total Coliforms Present/Absent	Faecal Coliforms Present/Absent
Site 1	424	6	2	410	6	<2	<2	<2	Absent	Absent	Absent
Site 2	469	14	<2	450	5	<2	<2	<2	Absent	Absent	Absent
Site 3	912	160	8	730	14	<3	<3	<3	Absent	Absent	Absent
Site 4	1,088	78	3	990	17	<3	<3	<3	Absent	Absent	Absent
Site 5	216	2	<2	210	4	<2	<2	<2	Absent	Absent	Absent
Site 6	2,776	46	120	2,400	210	<2	<2	<2	Absent	Absent	Absent

- a) CFU/m³ = 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

SOURCE TESTING NZ

2. Introduction

Source Testing New Zealand Limited (STNZ) was commissioned by Veolia Water Services (ANZ) Pty Ltd (Veolia) to undertake ambient microbe monitoring in the vicinity of the Moa Point Wastewater Treatment Plant (WWTP). The monitoring was required under Condition 7 of the Company's Resource Consent (WGN080003[26183]) which stipulates the following:

“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 Manager, Environmental Regulation, Wellington Regional Council within three months of the granting of this permit. Tests are to be carried out at a minimum of three sites down and three sites upwind of the plant, with at least one in the vicinity of the Air New Zealand kitchens and one at a level of Kekerenga Street. The other sites are to be located outside of/and within 100 meters of the site boundary.”

The Moa Pt WWTP ambient microbes monitoring was performed on 27 February 2025, by Matthew Newby, Senior Air Quality Scientist with STNZ. Matthew has over 25 years' air quality monitoring and consulting experience and is designated as a key technical person under the STNZ's IANZ accreditation. Matthew is also a Certified Air Quality Professional (CAQP) under the Clean Air Association of Australia and New Zealand (CASANZ) certification programme.

The following report presents the sampling methodology, monitoring sites, meteorological conditions on the day of sampling with the results subsequently compared to the Biodet Services Ltd guidelines to assess the potential risk of adverse health effects associate with emissions from the Moa Pt WWTP.

3. Sampling Methodologies

On 27 February 2025, a total of six monitoring sites were assessed and are depicted in Figures 1 through 6 with Appendix A showing their proximity to the plant with the sites previously approved by Greater Wellington Regional Council. The concentration of ambient microbes was determined by collecting ambient air samples in accordance with NIOSH Method 0500 “Particulates Not Otherwise Regulated, Total” with the microbes analysis performed by Biodet Services Ltd, Auckland.

Samples were collected on triplicate gelatine filters at a rate of 1 to 2 L/min over a period of approximately 6-hours. Due to the limited viability of airborne Salmonella and Faecal Coliforms, on completion of sampling the filters were added to a sterilised broth to stabilise the bacteria. The samples were then forwarded on the day of collection to the lab for analysis as per the Biodet in-house gelatine filter method which targets the following microbes:

- Total Coliforms.
- Faecal Coliforms.
- Salmonella.
- Total Bacteria.
- Total Actinomycetes,
- Total Filamentous Fungi
- Total Yeasts,
- Aspergillus Fumigatus,
- Gram Negative,
- Total Yeasts, and
- Enterococci.

With regards to Site 1, the equipment had been installed on the boundary fence between the Inlet Pump Station (IPS) and the old mechanics. However, the construction of the new Sludge Minimisation Facility (SMF) has engulfed the IPS, so the sample was relocated to the new boundary on Stewart Duff Dr.

In late 2024, the airport took position of a large portion of the golf course, including where Sites 3 and 4 were located. Veolia requested approval to re-locate these sites closer to the plant, which was approved by GWRC in December 2024. However, in February 2025 the area occupied by the airport was larger than original informed and the approved sites were no longer accessible. Hence, the monitoring equipment was placed on the northern boundary fence of the airport with Sites 3 and 4 approximately 30 m and 45 m respectively up from the bottom of the access road.

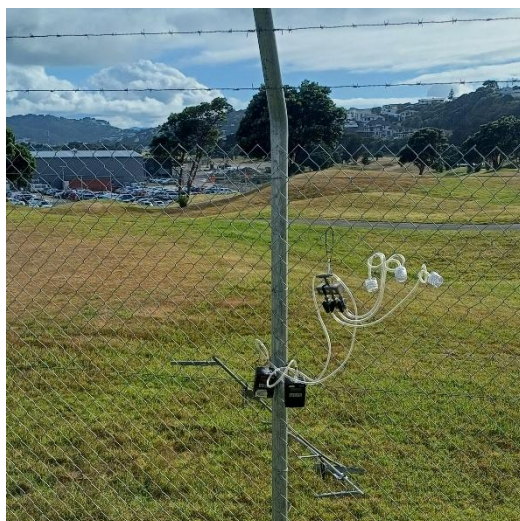
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Figure 1: Site 1 27 Feb 2025



Figure 2: Site 2 from 2024



■ Figure 3: Site 3 27 Feb 2025



■ Figure 4: Site 4 27 Feb 2025



Figure 5: Site 5 from 2024



■ Figure 6: Site 6 from 2024

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4. Meteorological Conditions

To assess the potential sources of any detected airborne microbes, the wind speed and direction were recorded along with temperature and ambient pressure periodically over the day. The results of the meteorological monitoring conducted on 27 February 2025 are presented in Tables 2 through 7 for Sites 1 through 6 respectively. On the day of the assessment, calm to light south westerlies with a temperature of around 20°C. The wind conditions on the day would have resulted in Sites 3, 4 and 6 potentially being impacted by any discharges from the site.

■ **Table 2: Moa Pt WWTP Site 1, 27 February 2025**

Time	Wind Speed (m/s)	Wind Direction (from, degrees)	Temperature (°C)	Ambient Pressure (kPa)
7:36	Calm	Calm	15.3	102.19
9:02	Calm	Calm	18.5	
10:53	0.5	250	19.1	
11:40	0.6	220	20.6	
12:27	0.6	230	20.8	
13:15	1.0	230	21.0	
14:05	0.9	230	22.0	
15:00	0.6	230	21.2	

■ **Table 3: Moa Pt WWTP Site 2, 27 February 2025**

Time	Wind Speed (m/s)	Wind Direction (from, degrees)	Temperature (°C)	Ambient Pressure (kPa)
7:59	Calm	Calm	15.9	101.80
10:00	0.8	240	18.3	
10:55	1.1	240	18.6	
11:55	1.4	240	19.5	
12:35	0.9	240	20.6	
1:27	0.9	240	21.4	
14:15	0.9	240	21.4	
16:15	1.2	240	22.4	

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■ **Table 4: Moa Pt WWTP Site 3, 27 February 2025**

Time	Wind Speed (m/s)	Wind Direction (from, degrees)	Temperature (°C)	Ambient Pressure (kPa)
9:37	240	0.8	18.3	102.03
10:57	240	0.7	18.6	
11:47	230	0.7	20.6	
13:17	230	0.5	21.3	
14:30	230	1.5	21.4	
16:00	230	1.1	21.2	

■ **Table 5: Moa Pt WWTP Site 4, 27 February 2025**

Time	Wind Speed (m/s)	Wind Direction (from, degrees)	Temperature (°C)	Ambient Pressure (kPa)
9:45	Calm	Calm	19.2	101.99
10:59	0.5	250	19.6	
11:50	0.6	230	20.3	
13:19	0.7	240	21.2	
14:40	1.3	240	22.1	
16:06	0.9	240	21.9	

■ **Table 6: Moa Pt WWTP Site 5, 27 February 2025**

Time	Wind Speed (m/s)	Wind Direction (from, degrees)	Temperature (°C)	Ambient Pressure (kPa)
8:21	Calm	Calm	16.7	102.15
10:29	0.5	250	19.1	
11:07	0.5	250	19.9	
12:07	1.6	250	20.3	
12:52	2.6	260	20.6	
13:45	1.9	250	20.9	
14:30	1.3	260	21.3	
15:15	1.5	250	21.7	

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■ **Table 7: Moa Pt WWTP Site 6, 27 February 2025**

Time	Wind Speed (m/s)	Wind Direction (from, degrees)	Temperature (°C)	Ambient Pressure (kPa)
8:46	Calm	Calm	19.3	101.32
10:38	Calm	Calm	19.3	
11:28	Calm	Calm	19.7	
12:18	0.5	260	20.3	
13:00	Calm	Calm	20.4	
13:57	Calm	Calm	20.6	
14:40	0.6	260	20.9	
15:36	Calm	Calm	23.6	

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5. Ambient Microbe Monitoring Results

5.1 Ambient Microbe Monitoring Results

The results of the Moa Pt WWTP ambient microbe monitoring performed on 27 February 2025 are presented in Table 8 with the raw sampling data and analytical report presented in Appendix's B and C respectively.

■ **Table 8: Moa Point Wastewater Treatment Plant Ambient Microbe Monitoring Results, 27 February 2025**

Site	Total Count (CFU/m ³) ¹	Filter 1 Breakdown of Total Count					Filter 2		Filter 3		
		Total Bacteria (CFU/m ³) ¹	Total Actinomycettes (CFU /m ³) ¹	Total F/Fungi ² (CFU /m ³) ¹	Total Yeasts (CFU/m ³) ¹	<i>Aspergillus Fumigatus</i> ³ (CFU /m ³) ¹	Gram Negative (CFU/m ³) ¹	Enterococci (CFU /m ³) ¹	Salmonella Present/Absent	Total Coliforms Present/Absent	Faecal Coliforms Present/Absent
Site 1	424	6	2	410	6	<2	<2	<2	Absent	Absent	Absent
Site 2	469	14	<2	450	5	<2	<2	<2	Absent	Absent	Absent
Site 3	912	160	8	730	14	<3	<3	<3	Absent	Absent	Absent
Site 4	1,088	78	3	990	17	<3	<3	<3	Absent	Absent	Absent
Site 5	216	2	<2	210	4	<2	<2	<2	Absent	Absent	Absent
Site 6	2,776	46	120	2,400	210	<2	<2	<2	Absent	Absent	Absent

1. CFU/m³ = Colony forming units per cubic meter of air at actual temperature and pressure
2. F/Fungi = Filamentous Fungi
3. *Aspergillus fumigatus* count is included in the Total Fungi count

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5.2 Summary

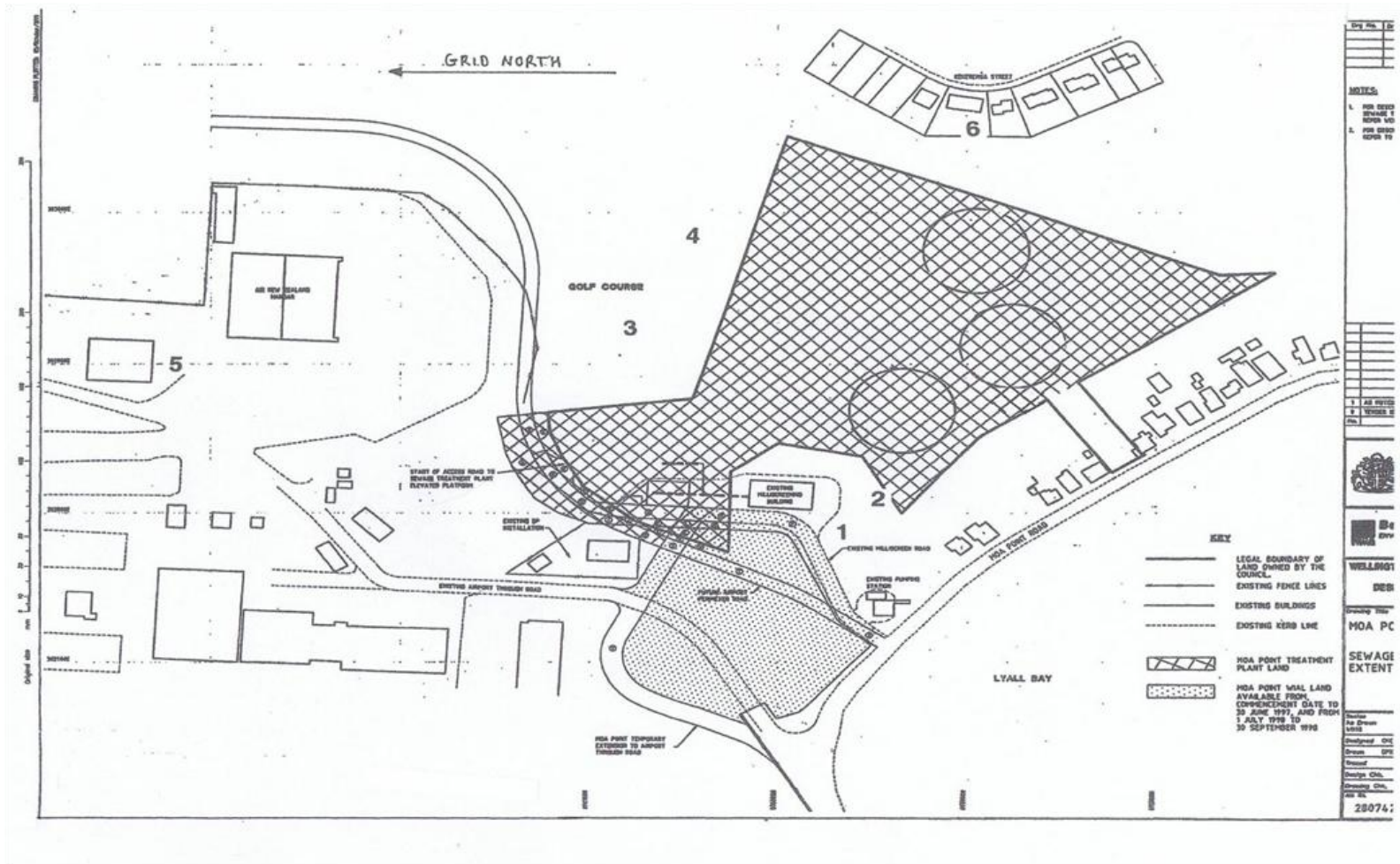
The results of the Moa Pt WWTP ambient microbe monitoring conducted on 27 February 2025 confirms the absence of *Salmonella* and Faecal Coliforms. The microbiological counts at all sites were within the guidelines for a wastewater treatment plant (Biodet Data Base) with no *Aspergillus Fumigatus*, Gram-negative, or Enterococci identified.

While the levels of microbes were within the guidelines, the concentrations at Site 6 were second highest recorded with only the sample collected prior to relocating being higher due to the presence of a new chicken coup. Sites 3 and 4 were also elevated compared to the remaining site. The results were significantly higher than observed in April and August 2024, with Sites 4 & 6 consistently elevated compared to the remaining sites.

The results of the Moa Pt WWTP ambient microbe monitoring appear to indicate the levels at the majority of sites have increased since the beginning of 2024 which correlates with the start of the construction of the Sludge Minimisation Facility (SMF). Site 6 has had the greatest increases while the Air New Zealand kitchens site (Site 5) remains consistent with previous years. Site 6 is on Kekerenga Street (Site 6) and was selected to assess the local community experience and the data suggest the level of exposure has increased since the construction of the SMF commenced.

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Appendix A Site Plan



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Appendix B Raw Sampling Data

Please note for Site 2 the sampling pumps were exchanged at 9:00, hence the two sets of flow data

Ambient Microbe Monitoring Data, Moa Point WWTP, 27 February 2025

Sample Description	Sample ID	Sampling Date	Sampling Period	Sample Duration (min)	Initial Flow (L/min)	Final Flow (L/min)	Ave Flow (L/min)	Sample Vol (m ³)
Moa Pt Site 1 Filter 1	ST1253/01	27/02/2025	7:57 - 16:15	498	2.10	2.10	2.10	1.046
Moa Pt Site 1 Filter 2	ST1253/02	27/02/2025	7:57 - 16:15	498	2.20	2.20	2.20	1.096
Moa Pt Site 1 Filter 3	ST1253/03	27/02/2025	7:57 - 16:15	498	2.10	2.15	2.13	1.058
Moa Pt Site 2 Filter 1	ST1253/04	27/02/2025	7:35 - 9:02	67	2.15	2.15	2.15	0.144
Moa Pt Site 2 Filter 2	ST1253/05	27/02/2025	7:35 - 9:02	67	2.10	2.15	2.13	0.142
Moa Pt Site 2 Filter 3	ST1253/06	27/02/2025	7:35 - 9:02	67	1.95	2.00	1.98	0.132
Moa Pt Site 2 Filter 1	ST1253/04	27/02/2025	9:02 - 15:00	358	2.05	2.10	2.08	0.743
Moa Pt Site 2 Filter 2	ST1253/05	27/02/2025	9:02 - 15:00	358	2.00	2.00	2.00	0.716
Moa Pt Site 2 Filter 3	ST1253/06	27/02/2025	9:02 - 15:00	358	1.85	1.90	1.88	0.671
Moa Pt Site 2 Filter 1	Pump exchanged @ 9:02							0.887
Moa Pt Site 2 Filter 2								0.858
Moa Pt Site 2 Filter 3								0.804
Moa Pt Site 3 Filter 1	ST1253/07	27/02/2025	9:37 - 16:03	386	1.90	1.90	1.90	0.733
Moa Pt Site 3 Filter 2	ST1253/08	27/02/2025	9:37 - 16:03	386	1.95	1.95	1.95	0.753
Moa Pt Site 3 Filter 3	ST1253/09	27/02/2025	9:37 - 16:03	386	1.95	2.00	1.98	0.762
Moa Pt Site 4 Filter 1	ST1253/10	27/02/2025	9:45 - 16:02	378	1.90	1.90	1.90	0.718
Moa Pt Site 4 Filter 2	ST1253/11	27/02/2025	9:45 - 16:02	378	1.95	1.90	1.93	0.728
Moa Pt Site 4 Filter 3	ST1253/12	27/02/2025	9:45 - 16:02	378	2.10	2.05	2.08	0.784
Moa Pt Site 5 Filter 1	ST1253/13	27/02/2025	8:24 - 15:14	409	2.20	2.15	2.18	0.890
Moa Pt Site 5 Filter 2	ST1253/14	27/02/2025	8:24 - 15:14	409	2.15	2.15	2.15	0.879
Moa Pt Site 5 Filter 3	ST1253/15	27/02/2025	8:24 - 15:14	409	2.20	2.15	2.18	0.890
Moa Pt Site 6 Filter 1	ST1253/16	27/02/2025	8:46 - 15:36	410	2.10	2.10	2.10	0.861
Moa Pt Site 6 Filter 2	ST1253/17	27/02/2025	8:46 - 15:36	410	2.10	2.10	2.10	0.861
Moa Pt Site 6 Filter 3	ST1253/18	27/02/2025	8:46 - 15:36	410	2.00	2.00	2.00	0.820

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Appendix C Laboratory Reports

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Veolia
Moa Pt WWTP Ambient Microbe Monitoring
February 2025

Biodet Services Ltd
Consulting Industrial Microbiologists

Unit K, 383 Khyber Pass Road, PO Box 99010, Newmarket, Auckland 1149. Phone: 09-529-1553, E-mail: office@biodet.co.nz, www.biodet.co.nz

CULTURABLE AIRBORNE MICROBIAL REPORT

DATE OF REPORT: 6 March 2025
 SITE: Veolia Moa Point
 DATE OF SAMPLING: 27 February 2025
 DATE SAMPLES RECEIVED: 28 February 2025
 CLIENT REF NO: ST1253
 BIODET REF NO: 25/54291

CLIENT: Source Testing New Zealand
 PO Box 32-017
 Maungaraki
 LOWER HUTT 5010

ATTN: Matthew Newby

METHOD: In-house gelatin filter method (available on request.)

Volumes Sampled:	Filter 1	Filter 2	Filter 3
Site 1	1046L	1096L	1058L
Site 2	887L	858L	804L
Site 3	733L	753L	762L
Site 4	718L	728L	784L
Site 5	890L	879L	890L
Site 6	861L	861L	820L

LABORATORY NUMBER	TOTAL COUNT CFU/M ³	FILTER 1 - BREAKDOWN OF TOTAL COUNT					FILTER 2		FILTER 3		
		TOTAL BACTERIA CFU/M ³	TOTAL ACTINOMYCETES CFU/M ³	TOTAL F/FUNGI CFU/M ³	TOTAL YEASTS CFU/M ³	<i>Aspergillus fumigatus</i> CFU/M ³	GRAM NEGATIVE CFU/M ³	ENTEROCOCCI CFU/M ³	<i>SALMONELLA</i> Present/Absent	TOTAL COLIFORMS Present/Absent	FAECAL COLIFORMS Present/Absent
54291/1 - Site 1	424	6	2	410	6	<2	<2	<2	Absent	Absent	Absent
54291/2 - Site 2	469	14	<2	450	5	<2	<2	<2	Absent	Absent	Absent
54291/3 - Site 3	912	160	8	730	14	<3	<3	<3	Absent	Absent	Absent
54291/4 - Site 4	1088	78	3	990	17	<3	<3	<3	Absent	Absent	Absent
54291/5 - Site 5	216	2	<2	210	4	<2	<2	<2	Absent	Absent	Absent
54291/6 - Site 6	2776	46	120	2400	210	<2	<2	<2	Absent	Absent	Absent

Limit of detection for quantitative analyses is 2-3 cfu per m³
 F/FUNGI = FILAMENTOUS FUNGI
 < = less than
 The *Aspergillus fumigatus* count is included in the TOTAL FUNGI count.

INTERPRETATION:

Total coliforms are generally found associated with decaying organic material, so are commonly found in soil and wet environments. Faecal coliforms and *Salmonella* have a relatively short survival time in aerosols. Faecal Streptococci, Actinomycetes and *Candida* yeast species have good survival in aerosols and are useful indicators of wastewater aerosol pollution. Total counts of bacteria and fungi give an indication of air quality. Actinomycetes are soil microorganisms and may indicate disturbance to the soil. *Aspergillus fumigatus* is indicative of decomposing plant material and has the potential to cause infection in immunocompromised people. Actinomycete bacteria are becoming recognised as a significant microorganism in indoor air quality, with some species implicated in hypersensitivity pneumonitis.

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Veolia
Moa Pt WWTP Ambient Microbe Monitoring
February 2025

Biodet Services Ltd
Consulting Industrial Microbiologists

GUIDELINES: (based on Biodet database)

Colony-forming units (cfu) per cubic meter (m³) of air

	<i>Bacteria</i>	<i>Fungi</i>
Outdoor air	50-100	50-350
Vicinity of waste-water treatment plant	50-500	500-5000

Note: These counts may increase significantly with soil disturbance in the vicinity

CONCLUSIONS:

The microbial counts for all sites sampled were well within the guidelines for a waste-water treatment plant.

Aspergillus fumigatus, Gram-negative bacteria, Enterococci, *Salmonella* and *Escherichia coli* were not isolated from any of the sites.

Yours faithfully



Elaine Khor

M.Sc.

The samples were tested as received.

This report must not be reproduced except in full.

Unless otherwise indicated, sample analysis was performed at Biodet Services, 383 Khyber Pass Road, Newmarket, Auckland.

MEMBER OF NEW ZEALAND ASSOCIATION OF CONSULTING LABORATORIES

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