

Reference Number: 2024/1129

27 August 2024

[REDACTED]

Tēnā koe [REDACTED]

Thank you for your email of 9 August 2024 requesting under the Local Government Official Information and Meetings Act 1987 (LGOIMA), information relating to the Tokomaru Water Supply. Please see outlined below a response to each part of your request.

All council correspondence and reports about the April metals test of the Tokomaru water supply & All council correspondence and reports about the Tokomaru water supply and the lead in the water since July 10

Please find attached a summary of lead testing results and all analytical reports for the Fire Station sampling point.

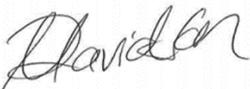
In response to the material enclosed, it is necessary to withhold contact details and other personal information under section 7(2)(a) of the LGOIMA, to protect individual privacy.

You are entitled to seek an investigation and review by the Office of the Ombudsman. Information about how to make a complaint is available at www.ombudsman.parliament.nz or freephone 0800 802 602.

Horowhenua District Council publishes responses to Local Government Official Information and Meetings Act 1987 (LGOIMA) requests that we consider to be of wider public interest, or which relate to a subject that has been widely requested. To protect your privacy, we will not generally publish personal information about you, or information that identifies you. We will publish the LGOIMA response along with a summary of the request on our website. Requests and responses may be paraphrased.

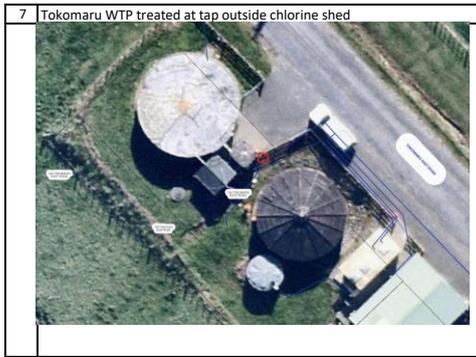
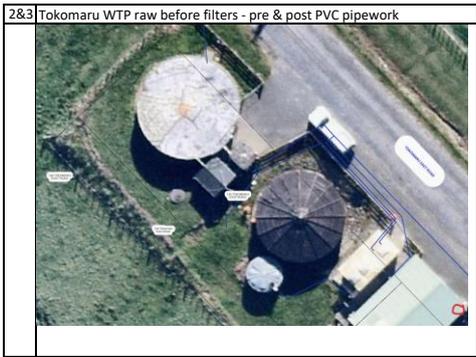
If you would like to discuss this decision or any of the information provided as part of this request, please contact Daniel Haigh (Group Manager Community Infrastructure) on danielh@horowhenua.govt.nz, or LGOIMAOfficer@horowhenua.govt.nz.

Ngā mihi



Monique Davidson
Chief Executive

Tokomaru Metals Sampling Locations



Horowhenua District Council

Tokomaru Plumbosolvent Metals Testing - Pb results summary and future monitoring plan

Sample dates and results for Pb tests (result date same as sample date, unless shown otherwise)

Green highlighted sample points will be utilising the sampling methodology as endorsed by MOH and the Water regulator - sample taken after flushing the first 20L.

Location nr	Sample Location	Coordinates	Sample method	Sat 1/04/23	Mon 2/10/23	Mon 1/04/24	Tue 16/07/24	Tue 23/07/24	Thu 25/07/24	Tue 30/07/24	Fri 2/08/24	Tue 6/08/24	LOQ: 0.0005 0.001 0.005			Thu 8/08/24	Fri 9/08/24
													Eurofins	CEL	Massey		
1	Tokomaru River intake raw water analyser	-40.48830831, 175.52642878	Continuous flow										0.0005	0.001	0.005	0.0008	
2	Tokomaru WTP raw before filters - pre PVC pipework	-40.48340420, 175.52102252	Continuous flow										0.0049	0.035	0.005	0.0005	
3	Tokomaru WTP raw before filters - post PVC pipework	In WTP building	Continuous flow													0.0005	
4	Tokomaru WTP between Sand & GAC filters	In WTP building	Continuous flow													0.0005	
5	Tokomaru WTP between GAC & Bag filters	In WTP building	Continuous flow													0.0005	
6	Tokomaru WTP pipe before Res 3	In WTP building (50-WF-PVC-0208) - At cartridge turbidity meter	Continuous flow													0.0005	
7	Tokomaru WTP treated at tap outside chlorine shed	-40.48327345, 175.52079219	Plumbosolvent						0.0011								
7-Flush	Tokomaru WTP treated at tap outside chlorine shed - flushed		After flushing														
8	Tokomaru WTP treated NTU analyser to town	-40.48328208, 175.52072816	Continuous flow										0.0005	0.001	0.005	0.0005	0.0005
9	Tokomaru Firestation sampling point	-40.47471478, 175.50953026	Plumbosolvent	0.0018	0.0013	0.0023	0.0256	0.013		0.0406		0.0469	0.0024	0.03	0.005	0.0043	0.0137
9-Flush	Tokomaru Firestation sampling point - flushed		After flushing														0.0005
9a	Tokomaru Firestation outside tap	-40.47472588, 175.50952804	Plumbosolvent														0.0112
10	Tokomaru RSA sampling point	-40.46989956, 175.50907637	Plumbosolvent						0.0033	0.0198		0.0296					0.0326
10-Flush	Tokomaru RSA sampling point - flushed		After flushing														0.0006
10a	Tokomaru RSA outside tap	-40.47000187, 175.50939991	Plumbosolvent														0.0077
11	Tokomaru Domain sampling point	-40.47729997, 175.50877911	Plumbosolvent					0.0554		0.0474		0.0285					0.0096
11-Flush	Tokomaru Domain sampling point - flushed		After flushing														0.0005
11a	Tokomaru Domain outside tap	-40.47738372, 175.50898596	Plumbosolvent														0.0005

Test method:

Lead - Acid Soluble - g/m³ - ICP-MS following APHA Online Edition method 3125 (modified)

LOQ: Means Limit of Quantification
Each lab has different LOQ due to the capability of their equipment
For Eurofins: All values shown as 0.0005 mean <0.0005, i.e. below the LOQ

MAV: Means Maximum Allowable Value as measured against the Drinking Water Standards for New Zealand
0.010 g/m³ or mg/l

MOH Ministry of Health
TA Taumata Arowai (Water regulator)

Horowhenua District Council

Tokomaru Plumbosolvent Metals Testing - Pb results summary and future monitoring plan

Sample dates and results for Pb tests (result date same as sample date, unless shown otherwise)

Flush sample points on the Monday afternoons - take sample Tuesday mornings

Green highlighted sample points will be utilising the sampling methodology as endorsed by MOH and the Water regulator - sample taken after flushing the first 20L.

Location nr	Sample Location	Coordinates	Sample method	Weekly				Monthly			3 Month	Normal 6 Monthly resumes					
				Tue 13/08/24	Tue 20/08/24	Tue 27/08/24	Tue 3/09/24	Tue 1/10/24	Tue 29/10/24	Tue 26/11/24	Tue 18/02/25	Tue 1/04/25	Tue 30/09/25	Tue 31/03/26	Tue 6/10/26		
1	Tokomaru River intake raw water analyser	-40.48830831, 175.52642878	Continuous flow														
2	Tokomaru WTP raw before filters - pre PVC pipework	-40.48340420, 175.52102252	Continuous flow														
3	Tokomaru WTP raw before filters - post PVC pipework	In WTP building	Continuous flow														
4	Tokomaru WTP between Sand & GAC filters	In WTP building	Continuous flow														
5	Tokomaru WTP between GAC & Bag filters	In WTP building	Continuous flow														
6	Tokomaru WTP pipe before Res 3	In WTP building (50-WF-PVC-0208) - At cartridge turbidity meter	Continuous flow														
7	Tokomaru WTP treated at tap outside chlorine shed	-40.48327345, 175.52079219	Plumbosolvent														
7-Flush	Tokomaru WTP treated at tap outside chlorine shed - flushed		After flushing														
8	Tokomaru WTP treated NTU analyser to town	-40.48328208, 175.52072816	Continuous flow														
9	Tokomaru Firestation sampling point	-40.47471478, 175.50953026	Plumbosolvent														
9-Flush	Tokomaru Firestation sampling point - flushed		After flushing														
9a	Tokomaru Firestation outside tap	-40.47472588, 175.50952804	Plumbosolvent														
10	Tokomaru RSA sampling point	-40.46989956, 175.50907637	Plumbosolvent														
10-Flush	Tokomaru RSA sampling point - flushed		After flushing														
10a	Tokomaru RSA outside tap	-40.47000187, 175.50939991	Plumbosolvent														
11	Tokomaru Domain sampling point	-40.47729997, 175.50877911	Plumbosolvent														
11-Flush	Tokomaru Domain sampling point - flushed		After flushing														
11a	Tokomaru Domain outside tap	-40.47738372, 175.50898596	Plumbosolvent														

Result dates

Test method:

Lead - Acid Soluble - g/m³ - ICP-MS following APHA Online Edition method 3125 (modified)

LOQ: Means Limit of Quantification

Each lab has different LOQ due to the capability of their equipment

For Erofin: All values shown as 0.0005 mean <0.0005, i.e. below the LOQ

MAV: Means Maximum Allowable Value as measured against the Drinking Water Standards for New Zealand

0.010 g/m³ or mg/l

MOH Ministry of Health

TA Taumata Arowai (Water regulator)

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-24-NW-020528-01	REPORT DATE	07/04/2024
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Attention Downer NZ Ltd (EDI Levin)
 Horowhenua Admin
 P O Box 642
 4741 Levin
 NEW ZEALAND

Phone [REDACTED] **Copy to:** Water and Waste Team
Email [REDACTED]

Contact for your orders: [REDACTED]	Order code: EUNZWE-00176305
Contract: Potable	Purchase Order Number: All Potable

SAMPLE CODE 812-2024-00048050

Sample Name 342229-0	Sampling Point name: DW TOK002TO Tokomaru Retic @ Fire Station, TOK002TO
Product: Drinking water	Reception temperature: 12.1
Sampling Point code: HDC-37	Analysis Ending Date: 07/04/2024
Reception Date & Time: 02/04/2024 16:53	Sampled Date & Time 01/04/2024 00:00
Analysis Started on: 05/04/2024 09:15	Sampled by Eurofins No
Product Type Drinking water	
Sampler(s) customer	

	RESULTS (UNCERTAINTY)	LOQ	SPECIFICATIONS
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NW069 Antimony - Acid Soluble Antimony (Sb)	<0.001	mg/l	0.001	MAV of 0.02 mg/l	✓	National Guideline
NW073 Cadmium - Acid Soluble Cadmium (Cd)	<0.0002	mg/l	0.0002	MAV of 0.004 mg/l	✓	National Guideline
NW076 Chromium - Acid Soluble Chromium (Cr)	<0.001	(± 0.000) mg/l	0.001	MAV of 0.05 mg/l	✓	National Guideline
NW078 Copper - Acid Soluble Copper (Cu)	0.0219	(± 0.0022) mg/l	0.0005	MAV of 2 mg/l	✓	National Guideline
NW080 Lead - Acid Soluble Lead (Pb)	0.0023	(± 0.0003) mg/l	0.0005	MAV of 0.01 mg/l	✓	National Guideline
NW084 Mercury - Acid Soluble Mercury (Hg)	<0.0005	mg/l	0.0005	MAV of 0.007 mg/l	✓	National Guideline
NW086 Nickel - Acid Soluble Nickel (Ni)	<0.0005	(± 0.0002) mg/l	0.0005	MAV of 0.08 mg/l	✓	National Guideline
NW096 Zinc - Acid Soluble Zinc (Zn)	0.030	(± 0.003) mg/l	0.002			

REPORT INFORMATION

Tests with Maximum Allowable Value (MAV) assigned are measured against the Drinking Water Standards for New Zealand. Results are considered unsatisfactory(*) when they do not comply with the specified MAV or Aesthetic Value indicating the water may not be safe to drink. Results are considered satisfactory (✓) when they comply with the specified MAV or Aesthetic Value.

LIST OF METHODS

NW069 Antimony - Acid Soluble: APHA Online Edition 3125 B mod.	NW073 Cadmium - Acid Soluble: APHA Online Edition 3125 B mod.
	NW076 Chromium - Acid Soluble: APHA Online Edition 3125 B mod.

Food & Water Testing

NW078 **Copper - Acid Soluble:** APHA Online Edition 3125 B mod.

NW080 **Lead - Acid Soluble:** APHA Online Edition 3125 B mod.

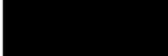
NW084 **Mercury - Acid Soluble:** APHA Online Edition 3125 B mod.

NW086 **Nickel - Acid Soluble:** APHA Online Edition 3125 B mod.

NW096 **Zinc - Acid Soluble:** APHA Online Edition 3125 B mod.

Signature



 Manager Food and Water
Testing Chemistry

EXPLANATORY NOTE

- ① Test is not accredited
- ② Test is subcontracted within Eurofins group and is accredited
- ③ Test is subcontracted within Eurofins group and is not accredited
- ④ Test is subcontracted outside Eurofins group and is accredited
- ⑤ Test is subcontracted outside Eurofins group and is not accredited
- ⑥ Test result is provided by the customer and is not accredited
- ⑦ Tested at the sampling point by Eurofins and is not accredited
- ⑧ Tested at the sampling point by Eurofins and is accredited
- ⑨ Test is RLP accredited
- ⑩ Test is subcontracted within Eurofins group and is RLP accredited

N/A means Not Applicable

Not Detected means not detected at or above the Limit of Quantification (LOQ)

LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit

✘ (Unsatisfactory) means does not meet the specification

✔ (Satisfactory) means meets the specification

The Customer acknowledges and accepts that: (a) where Eurofins is not responsible for sampling, the test result(s) in this report apply only to the sample as received. Customer is solely responsible for the sampling process and warrants that the sample provided to Eurofins is representative of the lot / batch from which the samples were drawn; and (b) Eurofins expresses no opinion and accepts no liability in respect of the Customer's production process or homogeneity of the product.

This document can only be reproduced in full.

The tests are identified by a five-digit code, their description is available on request.

Accreditation does not apply to comments or graphical representations.

Unless otherwise stated, all tests in this analytical report (except for subcontracted tests) are performed at 85 Port Road, Seaview, Lower Hutt, Wellington, NEW ZEALAND.

The laboratory is not responsible for the information provided by the customer which can affect the validity of the results, for example: sampling information such as date/time, field data etc.

Eurofins may subcontract the performance of part or all of the Services to a third party and the Customer authorises the release of all information necessary to the third party for the provision of the Services.

All samples become the property of Eurofins to the extent necessary for the performance of the Services.

Eurofins will not be required to store samples and may destroy or otherwise dispose of the samples or return the samples to the Customer (at the Customer's cost in all respects) immediately following analysis of the samples.

If the Customer pays for storage of the samples Eurofins will take commercially reasonable steps to store the samples for the agreed period in terms of industry practice.

The Eurofins water sampling service follows methodology based on AS/NZS 5667 and / or best practice to collect and transport samples that are fit for the purpose of analytical testing. The laboratory is not responsible for sampling activities unless explicitly indicated by the statement "Sampled by Eurofins" on the report for water samples.

The Customer acknowledges that the Services are provided using the current state of technology and methods developed and generally applied by Eurofins and involve analysis, interpretations, consulting work and conclusions. Eurofins shall use commercially reasonable degree of care in providing the Services.

This report is produced and issued on the basis of information, documents and/or samples provided by, or on behalf of, the Customer and solely for the benefit of the Customer who is responsible for acting as it sees fit on the basis of this report. Neither Eurofins nor any of its officers, employees, agents or subcontractors shall be liable to the Customer nor any third party for any actions taken or not taken on the basis of this report nor for any incorrect results arising from unclear, erroneous, incomplete, misleading or false information provided to Eurofins.

Eurofins shall have no liability for any indirect or consequential loss including, without limitation, loss of production, loss of contracts, loss of profits, loss of business or costs incurred from business interruption, loss of opportunity, loss of goodwill or damage to reputation and cost of product recall (including any losses suffered as a result of distribution of the Customer's products subject of the Services prior to the report being released by Eurofins). It shall further have no liability for any loss, damage or expenses arising from the claims of any third party (including, without limitation, product liability claims) that may be incurred by the Customer.

Eurofins General Terms and Conditions apply.

END OF REPORT

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-24-NW-043459-01	REPORT DATE	22/07/2024
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Attention Downer NZ Ltd (EDI Levin)
 [REDACTED]s
 122 Hokino Beach Road
 PO Box 642
 4741 Levin
 NEW ZEALAND

Phone [REDACTED] **Copy to:** Water and Waste Team
Email [REDACTED]

Contact for your orders: [REDACTED]	Order code: EUNZWE-00194511
Contract: Potable	Purchase Order Number: All Potable

SAMPLE CODE 812-2024-00102612

Sample Name 370096-0	Sampling Point name: DW TOK002TO Tokomaru Retic @ Fire Station, TOK002TO
Product: Drinking water	Reception temperature: 4.8
Sampling Point code: HDC-37	Analysis Ending Date: 22/07/2024
Reception Date & Time: 16/07/2024 14:04	Sampled Date & Time 16/07/2024 07:08
Analysis Started on: 17/07/2024 15:21	Sampled by Eurofins No
Product Type Drinking water	
Sampler(s) Client nominated external sampler	

	RESULTS (UNCERTAINTY)	LOQ	SPECIFICATIONS
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NW069 Antimony - Acid Soluble Antimony (Sb)	<0.001	(± 0.000) mg/l	0.001 MAV of 0.02 mg/l ✓ National Guideline
NW073 Cadmium - Acid Soluble Cadmium (Cd)	<0.0002	(± 0.0001) mg/l	0.0002 MAV of 0.004 mg/l ✓ National Guideline
NW076 Chromium - Acid Soluble Chromium (Cr)	<0.001	(± 0.000) mg/l	0.001 MAV of 0.05 mg/l ✓ National Guideline
NW078 Copper - Acid Soluble Copper (Cu)	0.220	(± 0.0220) mg/l	0.0005 MAV of 2 mg/l ✓ National Guideline
NW080 Lead - Acid Soluble Lead (Pb)	0.0256	(± 0.0026) mg/l	0.0005 MAV of 0.01 mg/l ✗ National Guideline
NW084 Mercury - Acid Soluble Mercury (Hg)	<0.0005	mg/l	0.0005 MAV of 0.007 mg/l ✓ National Guideline
NW086 Nickel - Acid Soluble Nickel (Ni)	0.0067	(± 0.0007) mg/l	0.0005 MAV of 0.08 mg/l ✓ National Guideline
NW096 Zinc - Acid Soluble Zinc (Zn)	1.16	(± 0.116) mg/l	0.002

REPORT INFORMATION

Tests with Maximum Allowable Value (MAV) assigned are measured against the Drinking Water Standards for New Zealand. Results are considered unsatisfactory(*) when they do not comply with the specified MAV or Aesthetic Value indicating the water may not be safe to drink. Results are considered satisfactory (✓) when they comply with the specified MAV or Aesthetic Value.

LIST OF METHODS

NW069 **Antimony - Acid Soluble:** APHA Online Edition 3125 B mod. NW073 **Cadmium - Acid Soluble:** APHA Online Edition 3125 B mod.

Food & Water Testing

<p>NW076 Chromium - Acid Soluble: APHA Online Edition 3125 B mod.</p> <p>NW080 Lead - Acid Soluble: APHA Online Edition 3125 B mod.</p> <p>NW086 Nickel - Acid Soluble: APHA Online Edition 3125 B mod.</p>	<p>NW078 Copper - Acid Soluble: APHA Online Edition 3125 B mod.</p> <p>NW084 Mercury - Acid Soluble: APHA Online Edition 3125 B mod.</p> <p>NW096 Zinc - Acid Soluble: APHA Online Edition 3125 B mod.</p>
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Manager Chemistry



Laboratory Analyst
Laboratory Analyst

EXPLANATORY NOTE

- ① Test is not accredited
- ② Test is subcontracted within Eurofins group and is accredited
- ③ Test is subcontracted within Eurofins group and is not accredited
- ④ Test is subcontracted outside Eurofins group and is accredited
- ⑤ Test is subcontracted outside Eurofins group and is not accredited
- ⑥ Test result is provided by the customer and is not accredited
- ⑦ Tested at the sampling point by Eurofins and is not accredited
- ⑧ Tested at the sampling point by Eurofins and is accredited
- ⑨ Test is RLP accredited
- ⑩ Test is subcontracted within Eurofins group and is RLP accredited

N/A means Not Applicable

Not Detected means not detected at or above the Limit of Quantification (LOQ)

LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit

✘ (Unsatisfactory) means does not meet the specification

✔ (Satisfactory) means meets the specification

The Customer acknowledges and accepts that: (a) where Eurofins is not responsible for sampling, the test result(s) in this report apply only to the sample as received. Customer is solely responsible for the sampling process and warrants that the sample provided to Eurofins is representative of the lot / batch from which the samples were drawn; and (b) Eurofins expresses no opinion and accepts no liability in respect of the Customer's production process or homogeneity of the product.

This document can only be reproduced in full.

The tests are identified by a five-digit code, their description is available on request.

Accreditation does not apply to comments or graphical representations.

Unless otherwise stated, all tests in this analytical report (except for subcontracted tests) are performed at 85 Port Road, Seaview, Lower Hutt, Wellington, NEW ZEALAND.

The laboratory is not responsible for the information provided by the customer which can affect the validity of the results, for example: sampling information such as date/time, field data etc.

Eurofins may subcontract the performance of part or all of the Services to a third party and the Customer authorises the release of all information necessary to the third party for the provision of the Services.

All samples become the property of Eurofins to the extent necessary for the performance of the Services.

Eurofins will not be required to store samples and may destroy or otherwise dispose of the samples or return the samples to the Customer (at the Customer's cost in all respects) immediately following analysis of the samples.

If the Customer pays for storage of the samples Eurofins will take commercially reasonable steps to store the samples for the agreed period in terms of industry practice.

The Eurofins water sampling service follows methodology based on AS/NZS 5667 and / or best practice to collect and transport samples that are fit for the purpose of analytical testing. The laboratory is not responsible for sampling activities unless explicitly indicated by the statement "Sampled by Eurofins" on the report for water samples.

The Customer acknowledges that the Services are provided using the current state of technology and methods developed and generally applied by Eurofins and involve analysis, interpretations, consulting work and conclusions. Eurofins shall use commercially reasonable degree of care in providing the Services.

This report is produced and issued on the basis of information, documents and/or samples provided by, or on behalf of, the Customer and solely for the benefit of the Customer who is responsible for acting as it sees fit on the basis of this report. Neither Eurofins nor any of its officers, employees, agents or subcontractors shall be liable to the Customer nor any third party for any actions taken or not taken on the basis of this report nor for any incorrect results arising from unclear, erroneous, incomplete, misleading or false information provided to Eurofins.

Eurofins shall have no liability for any indirect or consequential loss including, without limitation, loss of production, loss of contracts, loss of profits, loss of business or costs incurred from business interruption, loss of opportunity, loss of goodwill or damage to reputation and cost of product recall (including any losses suffered as a result of distribution of the Customer's products subject of the Services prior to the report being released by Eurofins). It shall further have no liability for any loss, damage or expenses arising from the claims of any third party (including, without limitation, product liability claims) that may be incurred by the Customer.

Eurofins General Terms and Conditions apply.

END OF REPORT



Food & Water Testing ANALYTICAL REPORT

REPORT CODE **AR-24-NW-044154-01** REPORT DATE **25/07/2024**

Attention **Downer NZ Ltd (EDI Levin)**

██████████
122 Hokio Beach Road
PO Box 642
4741 Levin
NEW ZEALAND

Phone ██████████ **Copy to: Water and Waste Team**

Email ██████████ ██████████

Contact for your orders: ██████████ **Order code:** EUNZWE-00195758
Contract: Potable **Purchase Order Number:** All Potable

SAMPLE CODE **812-2024-00106433**

Sample Name	370097-0	Sampling Point name:	DW TOK002TO Tokomaru Retic @ Fire Station, TOK002TO
Product:	Drinking water	Reception temperature:	8.2
Sampling Point code:	HDC-37	Analysis Ending Date:	25/07/2024
Reception Date & Time:	23/07/2024 16:24	Sampled Date & Time	23/07/2024 07:30
Analysis Started on:	24/07/2024 13:02	Sampled by Eurofins	No
Product Type	Drinking water		
Sampler(s)	Client nominated external sampler		

	RESULTS (UNCERTAINTY)		LOQ	SPECIFICATIONS	
NW069 Antimony - Acid Soluble Antimony (Sb)	<0.001	(± 0.000) mg/l	0.001	MAV of 0.02 mg/l	✓ National Guideline
NW073 Cadmium - Acid Soluble Cadmium (Cd)	0.0003	(± 0.0001) mg/l	0.0002	MAV of 0.004 mg/l	✓ National Guideline
NW076 Chromium - Acid Soluble Chromium (Cr)	<0.001	(± 0.000) mg/l	0.001	MAV of 0.05 mg/l	✓ National Guideline
NW078 Copper - Acid Soluble Copper (Cu)	0.979	(± 0.0979) mg/l	0.0005	MAV of 2 mg/l	✓ National Guideline
NW080 Lead - Acid Soluble Lead (Pb)	0.0130	(± 0.0013) mg/l	0.0005	MAV of 0.01 mg/l	✗ National Guideline
NW084 Mercury - Acid Soluble Mercury (Hg)	<0.0005	mg/l	0.0005	MAV of 0.007 mg/l	✓ National Guideline
NW086 Nickel - Acid Soluble Nickel (Ni)	0.127	(± 0.0127) mg/l	0.0005	MAV of 0.08 mg/l	✗ National Guideline
NW096 Zinc - Acid Soluble Zinc (Zn)	4.75	(± 0.475) mg/l	0.002		

REPORT INFORMATION

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LIST OF METHODS

NW069 **Antimony - Acid Soluble:** APHA Online Edition 3125 B mod. NW073 **Cadmium - Acid Soluble:** APHA Online Edition 3125 B mod.



Food & Water Testing

<p>NW076 Chromium - Acid Soluble: APHA Online Edition 3125 B mod.</p> <p>NW080 Lead - Acid Soluble: APHA Online Edition 3125 B mod.</p> <p>NW086 Nickel - Acid Soluble: APHA Online Edition 3125 B mod.</p>	<p>NW078 Copper - Acid Soluble: APHA Online Edition 3125 B mod.</p> <p>NW084 Mercury - Acid Soluble: APHA Online Edition 3125 B mod.</p> <p>NW096 Zinc - Acid Soluble: APHA Online Edition 3125 B mod.</p>
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Signature



Laboratory Analyst
Laboratory Analyst

EXPLANATORY NOTE

- ① Test is not accredited
- ② Test is subcontracted within Eurofins group and is accredited
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- ⑧ Tested at the sampling point by Eurofins and is accredited
- ⑨ Test is RLP accredited
- ⑩ Test is subcontracted within Eurofins group and is RLP accredited

N/A means Not Applicable

Not Detected means not detected at or above the Limit of Quantification (LOQ)

LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit

✘ (Unsatisfactory) means does not meet the specification

✔ (Satisfactory) means meets the specification

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The Eurofins water sampling service follows methodology based on AS/NZS 5667 and / or best practice to collect and transport samples that are fit for the purpose of analytical testing. The laboratory is not responsible for sampling activities unless explicitly indicated by the statement "Sampled by Eurofins" on the report for water samples.

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Eurofins shall have no liability for any indirect or consequential loss including, without limitation, loss of production, loss of contracts, loss of profits, loss of business or costs incurred from business interruption, loss of opportunity, loss of goodwill or damage to reputation and cost of product recall (including any losses suffered as a result of distribution of the Customer's products subject of the Services prior to the report being released by Eurofins). It shall further have no liability for any loss, damage or expenses arising from the claims of any third party (including, without limitation, product liability claims) that may be incurred by the Customer.

Eurofins General Terms and Conditions apply.

END OF REPORT



Food & Water Testing ANALYTICAL REPORT

REPORT CODE **AR-24-NW-046005-01** REPORT DATE **03/08/2024**

Attention **Downer NZ Ltd (EDI Levin)**

██████████
122 Hokio Beach Road
PO Box 642
4741 Levin
NEW ZEALAND

Phone ██████████ Copy to: Water and Waste Team

Email ██████████ ██████████

Contact for your orders: ██████████ **Order code:** EUNZWE-00197043
Contract: Potable **Purchase Order Number:** All Potable

SAMPLE CODE **812-2024-00109774**

Sample Name	370098-0	Sampling Point name:	DW TOK002TO Tokomaru Retic @ Fire Station, TOK002TO
Product:	Drinking water	Reception temperature:	5.6
Sampling Point code:	HDC-37	Analysis Ending Date:	02/08/2024
Reception Date & Time:	30/07/2024 14:17	Sampled Date & Time	30/07/2024 06:05
Analysis Started on:	31/07/2024 10:13	Sampled by Eurofins	No
Product Type	Drinking water		
Sampler(s)	Client nominated external sampler		

	RESULTS (UNCERTAINTY)		LOQ	SPECIFICATIONS	
NW069 Antimony - Acid Soluble Antimony (Sb)	<0.001	(± 0.000) mg/l	0.001	MAV of 0.02 mg/l	✓ National Guideline
NW073 Cadmium - Acid Soluble Cadmium (Cd)	<0.0002	(± 0.0001) mg/l	0.0002	MAV of 0.004 mg/l	✓ National Guideline
NW076 Chromium - Acid Soluble Chromium (Cr)	<0.001	(± 0.000) mg/l	0.001	MAV of 0.05 mg/l	✓ National Guideline
NW078 Copper - Acid Soluble Copper (Cu)	0.378	(± 0.0378) mg/l	0.0005	MAV of 2 mg/l	✓ National Guideline
NW080 Lead - Acid Soluble Lead (Pb)	0.0406	(± 0.0041) mg/l	0.0005	MAV of 0.01 mg/l	✗ National Guideline
NW084 Mercury - Acid Soluble Mercury (Hg)	<0.0005	mg/l	0.0005	MAV of 0.007 mg/l	✓ National Guideline
NW086 Nickel - Acid Soluble Nickel (Ni)	0.0071	(± 0.0007) mg/l	0.0005	MAV of 0.08 mg/l	✓ National Guideline
NW096 Zinc - Acid Soluble Zinc (Zn)	2.63	(± 0.263) mg/l	0.002		

REPORT INFORMATION

Tests with Maximum Allowable Value (MAV) assigned are measured against the Drinking Water Standards for New Zealand. Results are considered unsatisfactory(✗) when they do not comply with the specified MAV or Aesthetic Value indicating the water may not be safe to drink. Results are considered satisfactory(✓) when they comply with the specified MAV or Aesthetic Value.

LIST OF METHODS

NW069 **Antimony - Acid Soluble:** APHA Online Edition 3125 B mod. NW073 **Cadmium - Acid Soluble:** APHA Online Edition 3125 B mod.



Food & Water Testing

<p>NW076 Chromium - Acid Soluble: APHA Online Edition 3125 B mod.</p> <p>NW080 Lead - Acid Soluble: APHA Online Edition 3125 B mod.</p> <p>NW086 Nickel - Acid Soluble: APHA Online Edition 3125 B mod.</p>	<p>NW078 Copper - Acid Soluble: APHA Online Edition 3125 B mod.</p> <p>NW084 Mercury - Acid Soluble: APHA Online Edition 3125 B mod.</p> <p>NW096 Zinc - Acid Soluble: APHA Online Edition 3125 B mod.</p>
--	---

Signature



Laboratory Analyst
Laboratory Analyst

EXPLANATORY NOTE

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- ⑦ Tested at the sampling point by Eurofins and is not accredited
- ⑧ Tested at the sampling point by Eurofins and is accredited
- ⑨ Test is RLP accredited
- ⑩ Test is subcontracted within Eurofins group and is RLP accredited

N/A means Not Applicable

Not Detected means not detected at or above the Limit of Quantification (LOQ)

LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit

✘ (Unsatisfactory) means does not meet the specification

✔ (Satisfactory) means meets the specification

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Eurofins General Terms and Conditions apply.

END OF REPORT



Food & Water Testing

NW076 **Chromium - Acid Soluble:** APHA Online Edition 3125 B mod.
 NW080 **Lead - Acid Soluble:** APHA Online Edition 3125 B mod.
 NW086 **Nickel - Acid Soluble:** APHA Online Edition 3125 B mod.

NW078 **Copper - Acid Soluble:** APHA Online Edition 3125 B mod.
 NW084 **Mercury - Acid Soluble:** APHA Online Edition 3125 B mod.
 NW096 **Zinc - Acid Soluble:** APHA Online Edition 3125 B mod.

Signature



Laboratory Analyst
 Laboratory Analyst

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Eurofins General Terms and Conditions apply.

END OF REPORT



Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-24-NW-046697-01** REPORT DATE **07/08/2024**

Attention **Downer NZ Ltd (EDI Levin)**

██████████
 122 Hokino Beach Road
 PO Box 642
 4741 Levin
 NEW ZEALAND

Phone ██████████
 Email ██████████

Copy to: Water and Waste Team

Contact for your orders: ██████████ Order code: **EUNZWE-00198512**
 Contract: Potable Purchase Order Number: All Potable

SAMPLE CODE 812-2024-00114147

Product: Raw water
 Sample Reference: Tokomaru Firestation
 Reception Date & Time: 07/08/2024 12:44
 Analysis Started on: 07/08/2024 Analysis Ending Date: 07/08/2024
 Sampled Date & Time: 07/08/2024 08:50 Sampler(s): Customer

RESULTS (UNCERTAINTY) LOQ

NW069 Antimony - Acid Soluble	Antimony (Sb)	<0.001	(± 0.000) mg/l	0.001
NW070 Arsenic - Acid Soluble	Arsenic (As)	<0.001	(± 0.000) mg/l	0.001
NW484 Barium - Acid Soluble	Barium (Ba)	0.013	(± 0.002) mg/l	0.002
NW073 Cadmium - Acid Soluble	Cadmium (Cd)	<0.0002	mg/l	0.0002
NW076 Chromium - Acid Soluble	Chromium (Cr)	<0.001	(± 0.000) mg/l	0.001
NW078 Copper - Acid Soluble	Copper (Cu)	0.0440	(± 0.0044) mg/l	0.0005
NW080 Lead - Acid Soluble	Lead (Pb)	0.0024	(± 0.0003) mg/l	0.0005
NW084 Mercury - Acid Soluble	Mercury (Hg)	<0.0005	(± 0.0002) mg/l	0.0005
NW086 Nickel - Acid Soluble	Nickel (Ni)	0.0008	(± 0.0002) mg/l	0.0005
NW096 Zinc - Acid Soluble	Zinc (Zn)	0.124	(± 0.012) mg/l	0.002

LIST OF METHODS

NW069 Antimony - Acid Soluble: APHA Online Edition 3125 B mod.	NW070 Arsenic - Acid Soluble: APHA Online Edition 3125 B mod.
NW073 Cadmium - Acid Soluble: APHA Online Edition 3125 B mod.	NW076 Chromium - Acid Soluble: APHA Online Edition 3125 B mod.
NW078 Copper - Acid Soluble: APHA Online Edition 3125 B mod.	NW080 Lead - Acid Soluble: APHA Online Edition 3125 B mod.
NW084 Mercury - Acid Soluble: APHA Online Edition 3125 B mod.	NW086 Nickel - Acid Soluble: APHA Online Edition 3125 B mod.

Food & Water Testing

NW096 Zinc - Acid Soluble: APHA Online Edition 3125 B mod.

NW484 Barium - Acid Soluble: APHA Online Edition 3125 B mod.

Signature



Laboratory Analyst
Laboratory Analyst

EXPLANATORY NOTE

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Eurofins General Terms and Conditions apply.

END OF REPORT

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-24-NW-047131-01** REPORT DATE **08/08/2024**

Attention **Downer NZ Ltd (EDI Levin)**

██████████
 122 Hokio Beach Road
 PO Box 642
 4741 Levin
 NEW ZEALAND

Phone ██████████ **Copy to: Water and Waste Team**

Email ██████████ ██████████

Contact for your orders: ██████████ **Order code: EUNZWE-00198815**

Contract: Potable **Purchase Order Number: All Potable**

SAMPLE CODE 812-2024-00115013

Sample Name 9
Product: Drinking water
Sample Reference Toko Fire Station Sampling Point
Reception Date & Time: 08/08/2024 14:02 **Reception temperature:** 3.2
Analysis Started on: 08/08/2024 15:05 **Analysis Ending Date:** 08/08/2024
Sampled Date & Time 08/08/2024 10:05 **Sampler(s)** Customer

	RESULTS (UNCERTAINTY)	LOQ	SPECIFICATIONS
NW069 Antimony - Acid Soluble Antimony (Sb)	<0.001 (± 0.000) mg/l	0.001	MAV of 0.02 mg/l ✓ National Guideline
NW070 Arsenic - Acid Soluble Arsenic (As)	<0.001 (± 0.000) mg/l	0.001	MAV of 0.01 mg/l ✓ National Guideline
NW484 Barium - Acid Soluble Barium (Ba)	0.014 (± 0.002) mg/l	0.002	MAV of 1.5 mg/l ✓ National Guideline
NW073 Cadmium - Acid Soluble Cadmium (Cd)	<0.0002 (± 0.0001) mg/l	0.0002	MAV of 0.004 mg/l ✓ National Guideline
NW076 Chromium - Acid Soluble Chromium (Cr)	<0.001 (± 0.000) mg/l	0.001	MAV of 0.05 mg/l ✓ National Guideline
NW078 Copper - Acid Soluble Copper (Cu)	0.0882 (± 0.0088) mg/l	0.0005	MAV of 2 mg/l ✓ National Guideline
NW080 Lead - Acid Soluble Lead (Pb)	0.0043 (± 0.0005) mg/l	0.0005	MAV of 0.01 mg/l ✓ National Guideline
NW084 Mercury - Acid Soluble Mercury (Hg)	<0.0005 mg/l	0.0005	MAV of 0.007 mg/l ✓ National Guideline
NW086 Nickel - Acid Soluble Nickel (Ni)	0.0008 (± 0.0002) mg/l	0.0005	MAV of 0.08 mg/l ✓ National Guideline
NW096 Zinc - Acid Soluble Zinc (Zn)	0.190 (± 0.019) mg/l	0.002	

REPORT INFORMATION

Tests with Maximum Allowable Value (MAV) assigned are measured against the Drinking Water Standards for New Zealand. Results are considered unsatisfactory(✖) when they do not comply with the specified MAV or Aesthetic Value indicating the water may not be safe to drink. Results are considered satisfactory (✓) when they comply with the specified MAV or Aesthetic Value.

LIST OF METHODS

Food & Water Testing

NW069	Antimony - Acid Soluble: APHA Online Edition 3125 B mod.	NW070	Arsenic - Acid Soluble: APHA Online Edition 3125 B mod.
NW073	Cadmium - Acid Soluble: APHA Online Edition 3125 B mod.	NW076	Chromium - Acid Soluble: APHA Online Edition 3125 B mod.
NW078	Copper - Acid Soluble: APHA Online Edition 3125 B mod.	NW080	Lead - Acid Soluble: APHA Online Edition 3125 B mod.
NW084	Mercury - Acid Soluble: APHA Online Edition 3125 B mod.	NW086	Nickel - Acid Soluble: APHA Online Edition 3125 B mod.
NW096	Zinc - Acid Soluble: APHA Online Edition 3125 B mod.	NW484	Barium - Acid Soluble: APHA Online Edition 3125 B mod.

Signature



Manager Chemistry

EXPLANATORY NOTE

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Eurofins General Terms and Conditions apply.

END OF REPORT



Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-24-NW-047132-01** REPORT DATE **08/08/2024**

Attention **Downer NZ Ltd (EDI Levin)**

██████████
 122 Hokio Beach Road
 PO Box 642
 4741 Levin
 NEW ZEALAND

Phone ██████████ **Copy to: Water and Waste Team**

Email ██████████ ██████████

Contact for your orders: ██████████ **Order code:** EUNZWE-00198815

Contract: Potable **Purchase Order Number:** All Potable

SAMPLE CODE **812-2024-00115014**

Sample Name 9 FLUSH
Product: Drinking water
Sample Reference Toko Fire Station Sampling Point - Flushed
Reception Date & Time: 08/08/2024 14:02 **Reception temperature:** 3.2
Analysis Started on: 08/08/2024 15:05 **Analysis Ending Date:** 08/08/2024
Sampled Date & Time 08/08/2024 10:12 **Sampler(s)** Customer

	RESULTS (UNCERTAINTY)	LOQ	SPECIFICATIONS
--	-----------------------	-----	----------------

NW069 Antimony - Acid Soluble			
Antimony (Sb)	<0.001 mg/l	0.001	MAV of 0.02 mg/l ✓ National Guideline
NW070 Arsenic - Acid Soluble			
Arsenic (As)	<0.001 (± 0.000) mg/l	0.001	MAV of 0.01 mg/l ✓ National Guideline
NW484 Barium - Acid Soluble			
Barium (Ba)	0.012 (± 0.001) mg/l	0.002	MAV of 1.5 mg/l ✓ National Guideline
NW073 Cadmium - Acid Soluble			
Cadmium (Cd)	<0.0002 mg/l	0.0002	MAV of 0.004 mg/l ✓ National Guideline
NW076 Chromium - Acid Soluble			
Chromium (Cr)	<0.001 (± 0.000) mg/l	0.001	MAV of 0.05 mg/l ✓ National Guideline
NW078 Copper - Acid Soluble			
Copper (Cu)	0.0094 (± 0.0010) mg/l	0.0005	MAV of 2 mg/l ✓ National Guideline
NW080 Lead - Acid Soluble			
Lead (Pb)	<0.0005 (± 0.0002) mg/l	0.0005	MAV of 0.01 mg/l ✓ National Guideline
NW084 Mercury - Acid Soluble			
Mercury (Hg)	<0.0005 mg/l	0.0005	MAV of 0.007 mg/l ✓ National Guideline
NW086 Nickel - Acid Soluble			
Nickel (Ni)	<0.0005 (± 0.0002) mg/l	0.0005	MAV of 0.08 mg/l ✓ National Guideline
NW096 Zinc - Acid Soluble			
Zinc (Zn)	0.004 (± 0.001) mg/l	0.002	

REPORT INFORMATION

Tests with Maximum Allowable Value (MAV) assigned are measured against the Drinking Water Standards for New Zealand. Results are considered unsatisfactory(✖) when they do not comply with the specified MAV or Aesthetic Value indicating the water may not be safe to drink. Results are considered satisfactory (✓) when they comply with the specified MAV or Aesthetic Value.

LIST OF METHODS

Eurofins ELS Limited
 85 Port Road
 Seaview
 Lower Hutt
 Wellington 5010
 NEW ZEALAND

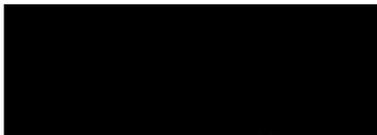
Phone +64 4 576 5016
www.eurofins.co.nz



Food & Water Testing

NW069	Antimony - Acid Soluble: APHA Online Edition 3125 B mod.	NW070	Arsenic - Acid Soluble: APHA Online Edition 3125 B mod.
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NW078	Copper - Acid Soluble: APHA Online Edition 3125 B mod.	NW080	Lead - Acid Soluble: APHA Online Edition 3125 B mod.
NW084	Mercury - Acid Soluble: APHA Online Edition 3125 B mod.	NW086	Nickel - Acid Soluble: APHA Online Edition 3125 B mod.
NW096	Zinc - Acid Soluble: APHA Online Edition 3125 B mod.	NW484	Barium - Acid Soluble: APHA Online Edition 3125 B mod.

Signature



Manager Chemistry

EXPLANATORY NOTE

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END OF REPORT



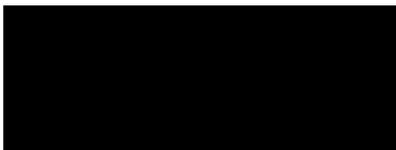
Food & Water Testing

drink.
Results are considered satisfactory (✓) when they comply with the specified MAV or Aesthetic Value.

LIST OF METHODS

NW069 Antimony - Acid Soluble: APHA Online Edition 3125 B mod.	NW070 Arsenic - Acid Soluble: APHA Online Edition 3125 B mod.
NW073 Cadmium - Acid Soluble: APHA Online Edition 3125 B mod.	NW076 Chromium - Acid Soluble: APHA Online Edition 3125 B mod.
NW078 Copper - Acid Soluble: APHA Online Edition 3125 B mod.	NW080 Lead - Acid Soluble: APHA Online Edition 3125 B mod.
NW084 Mercury - Acid Soluble: APHA Online Edition 3125 B mod.	NW086 Nickel - Acid Soluble: APHA Online Edition 3125 B mod.
NW096 Zinc - Acid Soluble: APHA Online Edition 3125 B mod.	NW484 Barium - Acid Soluble: APHA Online Edition 3125 B mod.

Signature



 Manager Chemistry

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Eurofins General Terms and Conditions apply.

END OF REPORT

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-24-NW-047426-01	REPORT DATE	09/08/2024
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Attention Downer NZ Ltd (EDI Levin)

122 Hokino Beach Road
PO Box 642
4741 Levin
NEW ZEALAND

Phone [REDACTED] Copy to: Water and Waste Team
Email [REDACTED]

Contact for your orders: [REDACTED]	Order code: EUNZWE-00199022
Contract: Potable	
Submission Reference: Horowhenua District Council - Tokomaru	Purchase Order Number: All Potable

SAMPLE CODE 812-2024-00115692

Sample Name: 9 FLUSH	
Product: Drinking water	
Sample Reference: Tokomaru Firestation sampling point - Flushed	
Reception Date & Time: 09/08/2024 12:15	Analysis Ending Date: 09/08/2024
Analysis Started on: 09/08/2024 13:02	Sampler(s): Customer
Sampled Date & Time: 09/08/2024 09:47	

	RESULTS (UNCERTAINTY)	LOQ	SPECIFICATIONS
NW069 Antimony - Acid Soluble Antimony (Sb)	<0.001 mg/l	0.001	MAV of 0.02 mg/l ✓ National Guideline
NW070 Arsenic - Acid Soluble Arsenic (As)	<0.001 (± 0.000) mg/l	0.001	MAV of 0.01 mg/l ✓ National Guideline
NW484 Barium - Acid Soluble Barium (Ba)	0.011 (± 0.001) mg/l	0.002	MAV of 1.5 mg/l ✓ National Guideline
NW073 Cadmium - Acid Soluble Cadmium (Cd)	<0.0002 mg/l	0.0002	MAV of 0.004 mg/l ✓ National Guideline
NW076 Chromium - Acid Soluble Chromium (Cr)	<0.001 (± 0.000) mg/l	0.001	MAV of 0.05 mg/l ✓ National Guideline
NW078 Copper - Acid Soluble Copper (Cu)	0.0102 (± 0.0010) mg/l	0.0005	MAV of 2 mg/l ✓ National Guideline
NW080 Lead - Acid Soluble Lead (Pb)	<0.0005 (± 0.0002) mg/l	0.0005	MAV of 0.01 mg/l ✓ National Guideline
NW084 Mercury - Acid Soluble Mercury (Hg)	<0.0005 mg/l	0.0005	MAV of 0.007 mg/l ✓ National Guideline
NW086 Nickel - Acid Soluble Nickel (Ni)	<0.0005 (± 0.0002) mg/l	0.0005	MAV of 0.08 mg/l ✓ National Guideline
NW096 Zinc - Acid Soluble Zinc (Zn)	0.005 (± 0.001) mg/l	0.002	

REPORT INFORMATION

Tests with Maximum Allowable Value (MAV) assigned are measured against the Drinking Water Standards for New Zealand. Results are considered unsatisfactory(*) when they do not comply with the specified MAV or Aesthetic Value indicating the water may not be safe to drink. Results are considered satisfactory (✓) when they comply with the specified MAV or Aesthetic Value.

Food & Water Testing

LIST OF METHODS

NW069	Antimony - Acid Soluble: APHA Online Edition 3125 B mod.	NW070	Arsenic - Acid Soluble: APHA Online Edition 3125 B mod.
NW073	Cadmium - Acid Soluble: APHA Online Edition 3125 B mod.	NW076	Chromium - Acid Soluble: APHA Online Edition 3125 B mod.
NW078	Copper - Acid Soluble: APHA Online Edition 3125 B mod.	NW080	Lead - Acid Soluble: APHA Online Edition 3125 B mod.
NW084	Mercury - Acid Soluble: APHA Online Edition 3125 B mod.	NW086	Nickel - Acid Soluble: APHA Online Edition 3125 B mod.
NW096	Zinc - Acid Soluble: APHA Online Edition 3125 B mod.	NW484	Barium - Acid Soluble: APHA Online Edition 3125 B mod.

Signature



Manager Chemistry

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✘ (Unsatisfactory) means does not meet the specification

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Eurofins General Terms and Conditions apply.

END OF REPORT



Food & Water Testing ANALYTICAL REPORT

REPORT CODE **AR-24-NW-047442-01** REPORT DATE **09/08/2024**

Attention **Downer NZ Ltd (EDI Levin)**

122 Hokio Beach Road
PO Box 642
4741 Levin
NEW ZEALAND

Phone [Redacted] Copy to: Water and Waste Team

Email [Redacted]

Contact for your orders: [Redacted] **Order code:** EUNZWE-00199022
Contract: Potable
Submission Reference: Horowhenua District Council - Tokomaru **Purchase Order Number:** All Potable

SAMPLE CODE **812-2024-00115691**

Sample Name 9
Product: Drinking water
Sample Reference Tokomaru Firestation sampling point
Reception Date & Time: 09/08/2024 12:15
Analysis Started on: 09/08/2024 13:02 **Analysis Ending Date:** 09/08/2024
Sampled Date & Time 09/08/2024 09:42 **Sampler(s)** Customer

	RESULTS (UNCERTAINTY)	LOQ	SPECIFICATIONS
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Food & Water Testing

LIST OF METHODS

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NW084	Mercury - Acid Soluble: APHA Online Edition 3125 B mod.	NW086	Nickel - Acid Soluble: APHA Online Edition 3125 B mod.
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Signature



Manager Chemistry

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