

# Food & Water Testing

## ANALYTICAL REPORT

REPORT CODE **AR-25-NC-009995-01** REPORT DATE **07/04/2025**

Attention Otago Regional Council  
 [REDACTED]  
 Private Bag 1954  
 9054 DUNEDIN  
 NEW ZEALAND

Phone +[REDACTED] Copy to: compliance [REDACTED], regulatory  
 Email [REDACTED]

Contact for your orders: [REDACTED] Order code: EUNZCH-00212742  
 Contract: Incident Response  
 Submission Reference: Background Check of River Quality Purchase Order Number: [REDACTED]

**SAMPLE CODE 817-2025-00033008**

Sample Name IN24.0004L  
 Sample Reference U/S WWTP between two bridges Shotover River  
 Reception Date & Time: 30/03/2025 12:40 Reception temperature: 11.8 °C  
 Analysis Started on: 30/03/2025 Analysis Ending Date: 07/04/2025  
 Product Type Surface water, raw water Sampler(s) ORC - [REDACTED]  
 Sampled Date & Time 30/03/2025 11:01

### RESULTS LOQ

Code	Method	Parameter	Result	Unit	LOQ
Ⓢ*NCOAK	Ammoniacal Nitrogen by Discrete Analyser	Ammonia nitrogen	<0.01	mg/l	0.01
*ZMJU7	Enumeration of Escherichia coli by Membrane Filtration	Escherichia coli	11	cfu/100 ml	1
*NCOAF	pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)	pH	8.0		0.1
*NC05B	Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode	Biochemical oxygen demand (BOD)	<2	mg/l	2
*NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)	Total Nitrogen (N)	0.05	mg/l	0.01
*NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)	Total phosphorus	<0.01	mg/l	0.01
*NCOAE	Total Suspended Solids in Water by Gravimetry	Suspended Solids	<2.5	mg/l	2.5

**SAMPLE CODE 817-2025-00033009**

Sample Name IN24.0004M  
 Sample Reference Shotover River @ Proposed Discharge Point  
 Reception Date & Time: 30/03/2025 12:40 Reception temperature: 11.8 °C  
 Analysis Started on: 30/03/2025 Analysis Ending Date: 07/04/2025  
 Product Type Surface water, raw water Sampler(s) ORC - [REDACTED]  
 Sampled Date & Time 30/03/2025 11:27

### RESULTS LOQ

Code	Method	Parameter	Result	Unit	LOQ
Ⓢ*NCOAK	Ammoniacal Nitrogen by Discrete Analyser	Ammonia nitrogen	<0.01	mg/l	0.01
*ZMJU7	Enumeration of Escherichia coli by Membrane Filtration	Escherichia coli	16	cfu/100 ml	1

## Food & Water Testing

	RESULTS	LOQ
*NC0AF	<b>pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)</b>	
	pH	8.0
*NC05B	<b>Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode</b>	
	Biochemical oxygen demand (BOD)	<2 mg/l
*NC03M	<b>Total Nitrogen in Water by Discrete Analyser (Trace)</b>	
	Total Nitrogen (N)	0.05 mg/l
*NC76G	<b>Total Phosphorus in Water by Discrete Analyser (Trace)</b>	
	Total phosphorus	<0.01 mg/l
*NC0AE	<b>Total Suspended Solids in Water by Gravimetry</b>	
	Suspended Solids	<2.5 mg/l

<b>SAMPLE CODE</b>	<b>817-2025-00033010</b>		
<b>Sample Name</b>	IN24.0004N		
<b>Sample Reference</b>	U/S of Past Discharge Point K River		
<b>Reception Date &amp; Time:</b>	30/03/2025 12:40	<b>Reception temperature:</b>	11.8 °C
<b>Analysis Started on:</b>	30/03/2025	<b>Analysis Ending Date:</b>	07/04/2025
<b>Product Type</b>	Surface water, raw water	<b>Sampler(s)</b>	ORC [REDACTED]
<b>Sampled Date &amp; Time</b>	30/03/2025 11:47		

	RESULTS	LOQ
⊗*NC0AK	<b>Ammoniacal Nitrogen by Discrete Analyser</b>	
	Ammonia nitrogen	<0.01 mg/l
*ZMJU7	<b>Enumeration of Escherichia coli by Membrane Filtration</b>	
	Escherichia coli	360 cfu/100 ml
*NC0AF	<b>pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)</b>	
	pH	7.6
*NC05B	<b>Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode</b>	
	Biochemical oxygen demand (BOD)	<2 mg/l
*NC03M	<b>Total Nitrogen in Water by Discrete Analyser (Trace)</b>	
	Total Nitrogen (N)	0.33 mg/l
*NC76G	<b>Total Phosphorus in Water by Discrete Analyser (Trace)</b>	
	Total phosphorus	0.04 mg/l
*NC0AE	<b>Total Suspended Solids in Water by Gravimetry</b>	
	Suspended Solids	3.6 mg/l

<b>SAMPLE CODE</b>	<b>817-2025-00033011</b>		
<b>Sample Name</b>	IN24.00040		
<b>Sample Reference</b>	Shotover + K River Confluence		
<b>Reception Date &amp; Time:</b>	30/03/2025 12:40	<b>Reception temperature:</b>	11.8 °C
<b>Analysis Started on:</b>	30/03/2025	<b>Analysis Ending Date:</b>	07/04/2025
<b>Product Type</b>	Surface water, raw water	<b>Sampler(s)</b>	ORC [REDACTED]
<b>Sampled Date &amp; Time</b>	30/03/2025 12:00		

	RESULTS	LOQ
⊗*NC0AK	<b>Ammoniacal Nitrogen by Discrete Analyser</b>	
	Ammonia nitrogen	0.06 mg/l
*ZMJU7	<b>Enumeration of Escherichia coli by Membrane Filtration</b>	
	Escherichia coli	77 cfu/100 ml
*NC0AF	<b>pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)</b>	

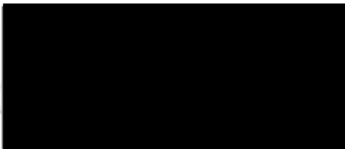
## Food & Water Testing

	RESULTS		LOQ
*NC0AF	<b>pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)</b>		
	pH	7.9	0.1
*NC05B	<b>Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode</b>		
	Biochemical oxygen demand (BOD)	<2	2
*NC03M	<b>Total Nitrogen in Water by Discrete Analyser (Trace)</b>		
	Total Nitrogen (N)	0.14	0.01
*NC76G	<b>Total Phosphorus in Water by Discrete Analyser (Trace)</b>		
	Total phosphorus	<0.01	0.01
*NCOAE	<b>Total Suspended Solids in Water by Gravimetry</b>		
	Suspended Solids	5.8	2.5

### LIST OF METHODS

NC03M <b>Total Nitrogen in Water by Discrete Analyser (Trace):</b> APHA Online Edition 4500-P J/4500-NH	NC05B <b>Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode:</b> APHA Online Edition 5210 B
NC0AE <b>Total Suspended Solids in Water by Gravimetry:</b> APHA Online Edition 2540 D	NC0AF <b>pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time):</b> APHA 24th Edition 4500-H B
NC0AK <b>Ammoniacal Nitrogen by Discrete Analyser:</b> ISBN 0117516139 mod.	NC76G <b>Total Phosphorus in Water by Discrete Analyser (Trace):</b> APHA Online Edition 4500-P B/J mod.
ZMJU7 <b>Escherichia coli E (Water) [NZ Water] &lt;1 &gt;8 000 /100 ml (0) mTEC Agar-F:</b> US-EPA 1603:2014	

Signature



### 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
- \*Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill

**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

**MAV** means Maximum Allowable Value

## Food & Water Testing

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. 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 43 Detroit Drive, Rolleston, Christchurch, 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. The Customer shall not alter any report or other Output provided to the Customer by Eurofins or misrepresent the contents of such Outputs in any way. The Customer shall be entitled to make copies for its internal purposes only. The Customer may only reproduce or publish any report or document provided to the Customer by Eurofins in full without alteration. Eurofins' name, logo or service marks, or any other means of identification cannot be used in any publication by the Customer, unless the Customer has obtained the prior written consent of 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**

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