

# Food & Water Testing

## PRELIMINARY REPORT

REPORT CODE

PR-25-NC-000069-01

REPORT DATE

17/04/2025

Attention Otago Regional Council

Private Bag 1954

9054 DUNEDIN

NEW ZEALAND

Phone

Email

Copy to: regulatory

Contact for your orders:

Contract:

Submission Reference:

Shotover WWTP

Emergency Discharge to Shotover  
River Treated Effluent

Order code:

EUNZCH-00214420

Purchase Order Number:

SAMPLE CODE

817-2025-00038884

Sample Name

IN25.0273A

Sample Reference

U/S WWTP and SH6 Bridge

Reception Date &amp; Time:

14/04/2025 14:30

Reception temperature:

9.5 °C

Analysis Started on:

15/04/2025

Analysis Ending Date:

16/04/2025

Product Type

Surface water, raw water

Sampler(s)

Sampled Date &amp; Time

14/04/2025 12:00

### RESULTS

### LOQ

#### \*NC0AK Ammoniacal Nitrogen by Discrete Analyser

Ammonia nitrogen &lt;0.01 mg/l 0.01

#### \*ZMJU7 Enumeration of Escherichia coli by Membrane Filtration

Escherichia coli 6 cfu/100 ml 1

#### \*NC0AF pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)

pH 7.9 0.1

SAMPLE CODE

817-2025-00038885

Sample Name

IN25.0273B

Sample Reference

Final Discharge Post UV

Reception Date &amp; Time:

14/04/2025 14:30

Reception temperature:

9.5 °C

Analysis Started on:

15/04/2025

Analysis Ending Date:

16/04/2025

Product Type

Surface water, raw water

Sampler(s)

Sampled Date &amp; Time

14/04/2025 13:40

### RESULTS

### LOQ

#### \*NC0AK Ammoniacal Nitrogen by Discrete Analyser

Ammonia nitrogen 7.18 mg/l 0.01

#### \*ZMJU7 Enumeration of Escherichia coli by Membrane Filtration

Escherichia coli &lt;1 cfu/100 ml 1

#### \*NC0AF pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)

pH 7.3 0.1

## Food & Water Testing

**SAMPLE CODE** 817-2025-00038886

**Sample Name** IN25.0273C  
**Sample Reference** Shotover WWTP Discharge to Shotover River  
**Reception Date & Time:** 14/04/2025 14:30 **Reception temperature:** 9.5 °C  
**Analysis Started on:** 15/04/2025 **Analysis Ending Date:** 16/04/2025  
**Product Type** Surface water, raw water **Sampler(s)** XXXXXXXXXX  
**Sampled Date & Time** 14/04/2025 12:56

### RESULTS

### LOQ

ⓘ\*NC0AK **Ammoniacal Nitrogen by Discrete Analyser**  
 Ammonia nitrogen 13.8 mg/l 0.01  
 \*ZMJU7 **Enumeration of Escherichia coli by Membrane Filtration**  
 Escherichia coli 10 cfu/100 ml 1  
 \*NC0AF **pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)**  
 pH 7.5 0.1

**SAMPLE CODE** 817-2025-00038887

**Sample Name** IN25.0273D  
**Sample Reference** Approx 200m D/S of discharge Shotover River  
**Reception Date & Time:** 14/04/2025 14:30 **Reception temperature:** 9.5 °C  
**Analysis Started on:** 15/04/2025 **Analysis Ending Date:** 16/04/2025  
**Product Type** Surface water, raw water **Sampler(s)** XXXXXXXXXX  
**Sampled Date & Time** 14/04/2025 13:06

### RESULTS

### LOQ

ⓘ\*NC0AK **Ammoniacal Nitrogen by Discrete Analyser**  
 Ammonia nitrogen 0.66 mg/l 0.01  
 \*ZMJU7 **Enumeration of Escherichia coli by Membrane Filtration**  
 Escherichia coli 28 cfu/100 ml 1  
 \*NC0AF **pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)**  
 pH 7.8 0.1

**SAMPLE CODE** 817-2025-00038888

**Sample Name** IN25.0273E  
**Sample Reference** U/S of Kawarau River  
**Reception Date & Time:** 14/04/2025 14:30 **Reception temperature:** 9.5 °C  
**Analysis Started on:** 15/04/2025 **Analysis Ending Date:** 16/04/2025  
**Product Type** Surface water, raw water **Sampler(s)** XXXXXXXXXX  
**Sampled Date & Time** 14/04/2025 12:28

### RESULTS

### LOQ

ⓘ\*NC0AK **Ammoniacal Nitrogen by Discrete Analyser**  
 Ammonia nitrogen 0.01 mg/l 0.01  
 \*ZMJU7 **Enumeration of Escherichia coli by Membrane Filtration**  
 Escherichia coli 53 cfu/100 ml 1  
 \*NC0AF **pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)**  
 pH 7.3 0.1

## Food & Water Testing

**SAMPLE CODE** 817-2025-00038889

**Sample Name** IN25.0273F

**Sample Reference** D/S of Kawarau River

**Reception Date & Time:** 14/04/2025 14:30

**Reception temperature:** 9.5 °C

**Analysis Started on:** 15/04/2025

**Analysis Ending Date:** 16/04/2025

**Product Type** Surface water, raw water

**Sampler(s)**

**Sampled Date & Time** 14/04/2025 11:30

### RESULTS

### LOQ

#### \*NC0AK Ammoniacal Nitrogen by Discrete Analyser

Ammonia nitrogen 0.03 mg/l 0.01

#### \*ZMJU7 Enumeration of Escherichia coli by Membrane Filtration

Escherichia coli 2 cfu/100 ml 1

#### \*NC0AF pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)

pH 7.9 0.1

### LIST OF METHODS

NC0AF pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time): APHA 24th Edition 4500-H B

NC0AK Ammoniacal Nitrogen by Discrete Analyser: ISBN 0117516139 mod.

ZMJU7 Escherichia coli E (Water) [NZ Water] <1 >8 000 /100 ml (0) mTEC Agar-F: US-EPA 1603:2014

Signature

[Redacted 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.

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