

Food Testing

ANALYTICAL REPORT

REPORT CODE

AR-26-NC-032445-01

REPORT DATE

24/09/2026

Attention Otago Regional Council

Copy to: Regulatory Procurement

Contact for your orders:

Shotover

Order code:

EUNZCH-00268145

Contract:

IN24.0004

Purchase Order Number:

SAMPLE CODE

817-2026-00087091

Sample Name

GT7830RC

Sample Reference

DS Kawarau River

Reception Date & Time:

18/09/2026 8:03

Reception temperature:

7.3 °C

Analysis Started on:

18/09/2026

Analysis Ending Date:

24/09/2026

Product Type

Surface Water

Sampler(s)

Sampled Date & Time

17/09/2026 12:00

RESULTS

LOQ

NC03M Total Nitrogen in Water by Discrete Analyser (Trace)

Total Nitrogen (N) 0.10 mg/l 0.01

NC03N Carbonaceous Biochemical Oxygen Demand in Water by DO Meter

Carbonaceous Biochemical Oxygen Demand <2 mg/l 2

NC03P Dissolved Reactive Phosphorus in Water by Discrete Analyser (Trace)

Phosphorus 0.168 mg/l 0.002

NC03R Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)

Nitrate nitrogen 0.06 mg/l 0.01

NC05B Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode

Biochemical oxygen demand (BOD) <2 mg/l 2

NCOAE Total Suspended Solids in Water by Gravimetry

Suspended Solids 162 mg/l 2.5

NCOAF pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)

pH 7.6 0.1

NCOAK Ammoniacal Nitrogen by Discrete Analyser

Ammonia nitrogen <0.01 mg/l 0.01

NC76G Total Phosphorus in Water by Discrete Analyser (Trace)

Total phosphorus 0.02 mg/l 0.01

ZMJU7 Enumeration of Escherichia coli by Membrane Filtration

Escherichia coli 8 cfu/100 ml 1

Food Testing

SAMPLE CODE		817-2026-00087092	
Sample Name	GT7790RC		
Sample Reference	US WWTP SH6 Bridge		
Reception Date & Time:	18/09/2026 8:03	Reception temperature:	7.3 °C
Analysis Started on:	18/09/2026	Analysis Ending Date:	24/09/2026
Product Type	Surface water	Sampler(s)	
Sampled Date & Time	17/09/2026 12:25		
RESULTS		LOQ	
NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	0.07 mg/l	0.01
NC03N	Carbonaceous Biochemical Oxygen Demand in Water by DO Meter		
	Carbonaceous Biochemical Oxygen Demand	<2 mg/l	2
NC03P	Dissolved Reactive Phosphorus in Water by Discrete Analyser (Trace)		
	Phosphorus	0.014 mg/l	0.002
NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)		
	Nitrate nitrogen	0.03 mg/l	0.01
NC05B	Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode		
	Biochemical oxygen demand (BOD)	<2 mg/l	2
NC0AE	Total Suspended Solids in Water by Gravimetry		
	Suspended Solids	150 mg/l	2.5
NC0AF	pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)		
	pH	7.7	0.1
NC0AK	Ammoniacal Nitrogen by Discrete Analyser		
	Ammonia nitrogen	<0.01 mg/l	0.01
NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	0.02 mg/l	0.01
ZMJU7	Enumeration of Escherichia coli by Membrane Filtration		
	Escherichia coli	12 cfu/100 ml	1

SAMPLE CODE		817-2026-00087093	
Sample Name	GT7840RC		
Sample Reference	US Kawarau River		
Reception Date & Time:	18/09/2026 8:03	Reception temperature:	7.3 °C
Analysis Started on:	18/09/2026	Analysis Ending Date:	24/09/2026
Product Type	Surface Water	Sampler(s)	
Sampled Date & Time	17/09/2026 12:40		
RESULTS		LOQ	
NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	0.06 mg/l	0.01
NC03N	Carbonaceous Biochemical Oxygen Demand in Water by DO Meter		
	Carbonaceous Biochemical Oxygen Demand	<2 mg/l	2
NC03P	Dissolved Reactive Phosphorus in Water by Discrete Analyser (Trace)		
	Phosphorus	0.002 mg/l	0.002
NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)		
	Nitrate nitrogen	0.04 mg/l	0.01
NC05B	Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode		

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	RESULTS	LOQ
NC05B Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode		
Biochemical oxygen demand (BOD)	<2 mg/l	2
NC0AE Total Suspended Solids in Water by Gravimetry		
Suspended Solids	<2.5 mg/l	2.5
NC0AF pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)		
pH	7.6	0.1
NC0AK Ammoniacal Nitrogen by Discrete Analyser		
Ammonia nitrogen	<0.01 mg/l	0.01
NC76G Total Phosphorus in Water by Discrete Analyser (Trace)		
Total phosphorus	<0.01 mg/l	0.01
ZMJU7 Enumeration of Escherichia coli by Membrane Filtration		
Escherichia coli	3 cfu/100 ml	1

SAMPLE CODE 817-2026-00087094

Sample Name GT782ORC

Sample Reference ~200m DS discharge Shotover River

Reception Date & Time: 18/09/2026 8:03

Reception temperature: 7.3 °C

Analysis Started on: 18/09/2026

Analysis Ending Date: 24/09/2026

Product Type Surface Water

Sampler(s)

Sampled Date & Time 17/09/2026 12:55

	RESULTS	LOQ
NC03M Total Nitrogen in Water by Discrete Analyser (Trace)		
Total Nitrogen (N)	0.38 mg/l	0.01
NC03N Carbonaceous Biochemical Oxygen Demand in Water by DO Meter		
Carbonaceous Biochemical Oxygen Demand	<2 mg/l	2
NC03P Dissolved Reactive Phosphorus in Water by Discrete Analyser (Trace)		
Phosphorus	0.005 mg/l	0.002
NC03R Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)		
Nitrate nitrogen	0.18 mg/l	0.01
NC05B Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode		
Biochemical oxygen demand (BOD)	<2 mg/l	2
NC0AE Total Suspended Solids in Water by Gravimetry		
Suspended Solids	172 mg/l	2.5
NC0AF pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)		
pH	7.6	0.1
NC0AK Ammoniacal Nitrogen by Discrete Analyser		
Ammonia nitrogen	0.04 mg/l	0.01
NC76G Total Phosphorus in Water by Discrete Analyser (Trace)		
Total phosphorus	0.10 mg/l	0.01
ZMJU7 Enumeration of Escherichia coli by Membrane Filtration		
Escherichia coli	13 cfu/100 ml	1

Food Testing

SAMPLE CODE 817-2026-00087095

Sample Name GT7810RC

Sample Reference Shotover WWTP discharge to Shotover River

Reception Date & Time: 18/09/2026 8:03

Reception temperature: 7.3 °C

Analysis Started on: 18/09/2026

Analysis Ending Date: 24/09/2026

Product Type Surface Water

Sampler(s)

Sampled Date & Time 17/09/2026 13:06

RESULTS

LOQ

NC03M Total Nitrogen in Water by Discrete Analyser (Trace)

Total Nitrogen (N) 3.92 mg/l 0.01

NC03N Carbonaceous Biochemical Oxygen Demand in Water by DO Meter

Carbonaceous Biochemical Oxygen Demand <6 mg/l 2

NC03P Dissolved Reactive Phosphorus in Water by Discrete Analyser (Trace)

Phosphorus 0.055 mg/l 0.002

NC03R Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)

Nitrate nitrogen 2.05 mg/l 0.01

NC05B Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode

Biochemical oxygen demand (BOD) <6 mg/l 2

NC0AE Total Suspended Solids in Water by Gravimetry

Suspended Solids 6.1 mg/l 2.5

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

pH 7.1 0.1

NC0AK Ammoniacal Nitrogen by Discrete Analyser

Ammonia nitrogen 0.42 mg/l 0.01

NC76G Total Phosphorus in Water by Discrete Analyser (Trace)

Total phosphorus 0.27 mg/l 0.01

ZMJU7 Enumeration of Escherichia coli by Membrane Filtration

Escherichia coli 3 cfu/100 ml 1

SAMPLE CODE 817-2026-00087096

Sample Name GT7990RC

Sample Reference Final Discharge Post UV

Reception Date & Time: 18/09/2026 8:03

Reception temperature: 7.3 °C

Analysis Started on: 18/09/2026

Analysis Ending Date: 24/09/2026

Product Type Effluent

Sampler(s)

Sampled Date & Time 17/09/2026 13:23

RESULTS

LOQ

NC03M Total Nitrogen in Water by Discrete Analyser (Trace)

Total Nitrogen (N) 3.75 mg/l 0.01

NC03N Carbonaceous Biochemical Oxygen Demand in Water by DO Meter

Carbonaceous Biochemical Oxygen Demand <6 mg/l 2

NC03P Dissolved Reactive Phosphorus in Water by Discrete Analyser (Trace)

Phosphorus 0.047 mg/l 0.002

NC03R Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)

Nitrate nitrogen 1.66 mg/l 0.01

NC05B Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode

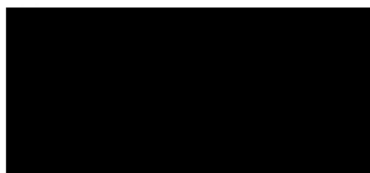
Food Testing

	RESULTS	LOQ
NC05B Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode		
Biochemical oxygen demand (BOD)	<6 mg/l	2
NC0AE Total Suspended Solids in Water by Gravimetry		
Suspended Solids	13.6 mg/l	2.5
NC0AF pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)		
pH	6.9	0.1
NC0AK Ammoniacal Nitrogen by Discrete Analyser		
Ammonia nitrogen	0.38 mg/l	0.01
NC76G Total Phosphorus in Water by Discrete Analyser (Trace)		
Total phosphorus	0.27 mg/l	0.01
ZMJU7 Enumeration of Escherichia coli by Membrane Filtration		
Escherichia coli	<1 cfu/100 ml	1

LIST OF METHODS

NC03M Total Nitrogen in Water by Discrete Analyser (Trace): APHA 24th Edition 4500-P J/4500-NH	NC03N Carbonaceous Biochemical Oxygen Demand in Water by DO Meter: APHA 24th Edition 5210 B
NC03P Dissolved Reactive Phosphorus in Water by Discrete Analyser (Trace): APHA 24th Edition 4500-P E	NC03R Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace): Calculated, Calculation [(Nitrate-N + Nitrite-N) - Nitrite-N]
NC05B Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode: APHA 24th Edition 5210 B	NC0AE Total Suspended Solids in Water by Gravimetry: APHA 24th Edition 2540 D
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.
NC76G Total Phosphorus in Water by Discrete Analyser (Trace): APHA 24th Edition 4500-P B/J mod.	ZMJU7 Escherichia coli E [IVC] <1 >8 000 cfu/100 ml (0) mTEC Agar-F: 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

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 Testing

This report applies exclusively to the samples provided by the Customer and does not represent the entire lot or batch from which the samples were drawn.

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Unless otherwise stated, all tests (except subcontracted tests) are performed at 142 Esk Street, Invercargill.

END OF REPORT