

# Food & Water Testing

## ANALYTICAL REPORT

REPORT CODE

AR-26-NC-014819-01

REPORT DATE

01/05/2026

Attention Otago Regional Council

[REDACTED]  
 [REDACTED]  
 [REDACTED]  
 [REDACTED]  
 [REDACTED]  
 [REDACTED]

Copy to: compliance

[REDACTED]  
 [REDACTED]

Contact for your orders:

[REDACTED]

Order code:

EUNZCH-00252618

Contract:

Compliance

Submission Reference:

Emergency Discharge to Shotover River

Purchase Order Number:

[REDACTED]

SAMPLE CODE

817-2026-00036050

Sample Name

GT7800RC

Sampling Point code:

GT7800RC

Sampling Point name:

1. Upstream WWTP (before the SH6 bridge) - ORC Sam

Reception Date &amp; Time:

17/04/2026 15:15

Reception temperature:

11.1 °C

Analysis Started on:

18/04/2026

Analysis Ending Date:

01/05/2026

Product Type

Surface water, raw water

Sampler(s)

[REDACTED]

Sampled Date &amp; Time

17/04/2026 13:30

### RESULTS

### LOQ

**NC03M Total Nitrogen in Water by Discrete Analyser (Trace)**

Total Nitrogen (N)	0.03	mg/l	0.01
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**NC04C Total Oxidised Nitrogen in Water by Discrete Analyser**

Total Oxidised Nitrogen	0.08	mg/l	0.01
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**NC05B Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode**

Biochemical oxygen demand (BOD)	<2	mg/l	2
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**NC0AE Total Suspended Solids in Water by Gravimetry**

Suspended Solids	44.9	mg/l	2.5
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**NC0AF pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)**

pH	7.5		0.1
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**Ⓢ NC0AK Ammoniacal Nitrogen by Discrete Analyser**

Ammonia nitrogen	<0.01	mg/l	0.01
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**NC76G Total Phosphorus in Water by Discrete Analyser (Trace)**

Total phosphorus	0.08	mg/l	0.01
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**ZMJU7 Enumeration of Escherichia coli by Membrane Filtration**

Escherichia coli	28	cfu/100 ml	1
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SAMPLE CODE

817-2026-00036051

Sample Name

GT7990RC

Sampling Point code:

GT7790RC

Sampling Point name:

2. Final Discharge post UV - ORC Sampling

Reception Date &amp; Time:

17/04/2026 15:15

Reception temperature:

11.1 °C

Analysis Started on:

18/04/2026

Analysis Ending Date:

01/05/2026

Product Type

Surface water, raw water

Sampler(s)

[REDACTED]

Sampled Date &amp; Time

17/04/2026 14:25

### RESULTS

### LOQ

## Food & Water Testing

	RESULTS		LOQ
<b>NC03M</b>	<b>Total Nitrogen in Water by Discrete Analyser (Trace)</b>		
	Total Nitrogen (N)	4.37	mg/l
			0.01
<b>NC04C</b>	<b>Total Oxidised Nitrogen in Water by Discrete Analyser</b>		
	Total Oxidised Nitrogen	4.0	mg/l
			0.01
<b>NC05B</b>	<b>Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode</b>		
	Biochemical oxygen demand (BOD)	<2	mg/l
			2
<b>NC0AE</b>	<b>Total Suspended Solids in Water by Gravimetry</b>		
	Suspended Solids	3.6	mg/l
			2.5
<b>NC0AF</b>	<b>pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)</b>		
	pH	6.7	
			0.1
<b>© NC0AK</b>	<b>Ammoniacal Nitrogen by Discrete Analyser</b>		
	Ammonia nitrogen	0.05	mg/l
			0.01
<b>NC76G</b>	<b>Total Phosphorus in Water by Discrete Analyser (Trace)</b>		
	Total phosphorus	2.97	mg/l
			0.01
<b>ZMJU7</b>	<b>Enumeration of Escherichia coli by Membrane Filtration</b>		
	Escherichia coli	3	cfu/100 ml
			1

<b>SAMPLE CODE</b>	<b>817-2026-00036052</b>		
<b>Sample Name</b>	GT781ORC		
<b>Sampling Point code:</b>	GT781ORC	<b>Sampling Point name:</b>	3. Discharge to the river - ORC Sampling
<b>Reception Date &amp; Time:</b>	17/04/2026 15:15	<b>Reception temperature:</b>	11.1 °C
<b>Analysis Started on:</b>	18/04/2026	<b>Analysis Ending Date:</b>	01/05/2026
<b>Product Type</b>	Surface water, raw water	<b>Sampler(s)</b>	[REDACTED]
<b>Sampled Date &amp; Time</b>	17/04/2026 13:50		

	RESULTS		LOQ
<b>NC03M</b>	<b>Total Nitrogen in Water by Discrete Analyser (Trace)</b>		
	Total Nitrogen (N)	4.16	mg/l
			0.01
<b>NC04C</b>	<b>Total Oxidised Nitrogen in Water by Discrete Analyser</b>		
	Total Oxidised Nitrogen	3.1	mg/l
			0.01
<b>NC05B</b>	<b>Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode</b>		
	Biochemical oxygen demand (BOD)	<2	mg/l
			2
<b>NC0AE</b>	<b>Total Suspended Solids in Water by Gravimetry</b>		
	Suspended Solids	3.0	mg/l
			2.5
<b>NC0AF</b>	<b>pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)</b>		
	pH	6.9	
			0.1
<b>© NC0AK</b>	<b>Ammoniacal Nitrogen by Discrete Analyser</b>		
	Ammonia nitrogen	0.05	mg/l
			0.01
<b>NC76G</b>	<b>Total Phosphorus in Water by Discrete Analyser (Trace)</b>		
	Total phosphorus	2.99	mg/l
			0.01
<b>ZMJU7</b>	<b>Enumeration of Escherichia coli by Membrane Filtration</b>		
	Escherichia coli	53	cfu/100 ml
			1

## Food & Water Testing

<b>SAMPLE CODE</b>	<b>817-2026-00036053</b>		
<b>Sample Name</b>	GT782ORC		
<b>Sampling Point code:</b>	GT782ORC	<b>Sampling Point name:</b>	4. 200 meters downstream - ORC Sampling
<b>Reception Date &amp; Time:</b>	17/04/2026 15:15	<b>Reception temperature:</b>	11.1 °C
<b>Analysis Started on:</b>	18/04/2026	<b>Analysis Ending Date:</b>	01/05/2026
<b>Product Type</b>	Surface water, raw water	<b>Sampler(s)</b>	[REDACTED]
<b>Sampled Date &amp; Time</b>	17/04/2026 14:00		

	RESULTS		LOQ
<b>NC03M</b>	<b>Total Nitrogen in Water by Discrete Analyser (Trace)</b>		
	Total Nitrogen (N)	0.47 mg/l	0.01
<b>NC04C</b>	<b>Total Oxidised Nitrogen in Water by Discrete Analyser</b>		
	Total Oxidised Nitrogen	0.42 mg/l	0.01
<b>NC05B</b>	<b>Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode</b>		
	Biochemical oxygen demand (BOD)	<2 mg/l	2
<b>NC0AE</b>	<b>Total Suspended Solids in Water by Gravimetry</b>		
	Suspended Solids	5.9 mg/l	2.5
<b>NC0AF</b>	<b>pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)</b>		
	pH	7.4	0.1
<b>©NC0AK</b>	<b>Ammoniacal Nitrogen by Discrete Analyser</b>		
	Ammonia nitrogen	<0.01 mg/l	0.01
<b>NC76G</b>	<b>Total Phosphorus in Water by Discrete Analyser (Trace)</b>		
	Total phosphorus	0.37 mg/l	0.01
<b>ZMJU7</b>	<b>Enumeration of Escherichia coli by Membrane Filtration</b>		
	Escherichia coli	180 cfu/100 ml	1

<b>SAMPLE CODE</b>	<b>817-2026-00036054</b>		
<b>Sample Name</b>	GT784ORC		
<b>Sampling Point code:</b>	GT784ORC	<b>Sampling Point name:</b>	5. Upstream of Kawarau River - ORC Sampling
<b>Reception Date &amp; Time:</b>	17/04/2026 15:15	<b>Reception temperature:</b>	11.1 °C
<b>Analysis Started on:</b>	18/04/2026	<b>Analysis Ending Date:</b>	01/05/2026
<b>Product Type</b>	Surface water, raw water	<b>Sampler(s)</b>	[REDACTED]
<b>Sampled Date &amp; Time</b>	17/04/2026 13:40		

	RESULTS		LOQ
<b>NC03M</b>	<b>Total Nitrogen in Water by Discrete Analyser (Trace)</b>		
	Total Nitrogen (N)	0.30 mg/l	0.01
<b>NC04C</b>	<b>Total Oxidised Nitrogen in Water by Discrete Analyser</b>		
	Total Oxidised Nitrogen	0.10 mg/l	0.01
<b>NC05B</b>	<b>Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode</b>		
	Biochemical oxygen demand (BOD)	<2 mg/l	2
<b>NC0AE</b>	<b>Total Suspended Solids in Water by Gravimetry</b>		
	Suspended Solids	<2.5 mg/l	2.5
<b>NC0AF</b>	<b>pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)</b>		
	pH	7.2	0.1
<b>©NC0AK</b>	<b>Ammoniacal Nitrogen by Discrete Analyser</b>		
	Ammonia nitrogen	0.17 mg/l	0.01
<b>NC76G</b>	<b>Total Phosphorus in Water by Discrete Analyser (Trace)</b>		

## Food & Water Testing

	RESULTS		LOQ
<b>NC76G Total Phosphorus in Water by Discrete Analyser (Trace)</b>			
Total phosphorus	<0.01	mg/l	0.01
<b>ZMJU7 Enumeration of Escherichia coli by Membrane Filtration</b>			
Escherichia coli	310	cfu/100 ml	1

<b>SAMPLE CODE</b>	<b>817-2026-00036055</b>
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<b>Sample Name</b>	GT783ORC	<b>Sampling Point name:</b>	6. Downstream of Kawarau River - ORC Sampling
<b>Sampling Point code:</b>	GT785ORC	<b>Reception temperature:</b>	11.1 °C
<b>Reception Date &amp; Time:</b>	17/04/2026 15:15	<b>Analysis Ending Date:</b>	01/05/2026
<b>Analysis Started on:</b>	18/04/2026	<b>Sampler(s)</b>	[REDACTED]
<b>Product Type</b>	Surface water, raw water		
<b>Sampled Date &amp; Time</b>	17/04/2026 13:08		

	RESULTS		LOQ
<b>NC03M Total Nitrogen in Water by Discrete Analyser (Trace)</b>			
Total Nitrogen (N)	0.07	mg/l	0.01
<b>NC04C Total Oxidised Nitrogen in Water by Discrete Analyser</b>			
Total Oxidised Nitrogen	0.05	mg/l	0.01
<b>NC05B Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode</b>			
Biochemical oxygen demand (BOD)	<2	mg/l	2
<b>NC0AE Total Suspended Solids in Water by Gravimetry</b>			
Suspended Solids	<2.5	mg/l	2.5
<b>NC0AF pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)</b>			
pH	7.5		0.1
<b>©NC0AK Ammoniacal Nitrogen by Discrete Analyser</b>			
Ammonia nitrogen	<0.01	mg/l	0.01
<b>NC76G Total Phosphorus in Water by Discrete Analyser (Trace)</b>			
Total phosphorus	0.03	mg/l	0.01
<b>ZMJU7 Enumeration of Escherichia coli by Membrane Filtration</b>			
Escherichia coli	10	cfu/100 ml	1

### LIST OF METHODS

<p><b>NC03M Total Nitrogen in Water by Discrete Analyser (Trace):</b> APHA 24th Edition 4500-P J/4500-NH * Test was performed at 142 Esk Street, Invercargill</p> <p><b>NC05B Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode:</b> APHA 24th Edition 5210 B * Test was performed at 142 Esk Street, Invercargill</p> <p><b>NC0AF pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time):</b> APHA 24th Edition 4500-H B * Test was performed at 142 Esk Street, Invercargill</p> <p><b>NC76G Total Phosphorus in Water by Discrete Analyser (Trace):</b> APHA 24th Edition 4500 P B/J mod * Test was performed at 142 Esk Street, Invercargill</p>	<p><b>NC04C Total Oxidised Nitrogen in Water by Discrete Analyser:</b> APHA 24th Edition 4500-NO3 H * Test was performed at 142 Esk Street, Invercargill</p> <p><b>NC0AE Total Suspended Solids in Water by Gravimetry:</b> APHA 24th Edition 2540 D * Test was performed at 142 Esk Street, Invercargill</p> <p><b>NC0AK Ammoniacal Nitrogen by Discrete Analyser:</b> ISBN 0117516139 mod. * Test was performed at 142 Esk Street, Invercargill</p> <p><b>ZMJU7 Escherichia coli E [IVC] &lt;1 &gt;8 000 cfu/100 ml (0) mTEC Agar-F:</b> US EPA 1603 2014 * Test was performed at 142 Esk Street, Invercargill</p>
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Signature

## Food & Water Testing



### 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

**X** (Unsatisfactory) means does not meet the specification

**✓** (Satisfactory) means meets the specification

**MAV** means Maximum Allowable Value

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