

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-25-NC-023681-01** REPORT DATE **19/08/2025**

Attention Veolia Water Services (ANZ) Pty Ltd
NZ Queenstown Lab Results
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Phone 03 450 9240

Email nz.queenstown.lab-results.all.groups@veolia.com

Copy to: QLDC Lab Results (lab.results@qldc.govt.nz), Lado

Contact for your orders: James Thornton
Contract: Shotover WWTP Monthly + Bores
Submission Reference: Shotover WWTP Bores + Grab
Order Comment: Bores 2 and 5 Filled In/Dry

Order code: EUNZCH-00225745

Purchase Order Number: 7300492898

SAMPLE CODE **817-2025-00076542**

Sampling Point code: NC0001572018

Reception Date & Time: 07/08/2025 13:33

Analysis Started on: 08/08/2025

Product Type Treated Effluent

Sampler(s)

Sampling Point name: Shotover WWTP Effluent + Grab

Reception temperature: 10.6 °C

Analysis Ending Date: 19/08/2025

Sampled Date & Time 07/08/2025 11:45

Sampling Purpose Monitoring

RESULTS

LOQ

SPECIFICATIONS

© NC0AK Ammoniacal Nitrogen by Discrete Analyser

Ammonia nitrogen 16.6 mg/l 0.01

NC03N Carbonaceous Biochemical Oxygen Demand in Water by DO Meter

Carbonaceous Biochemical Oxygen Demand 73.8 mg/l 2 consent limit of 30 mg/l ✗ Client Specification

ZMJU9 Enumeration of Escherichia coli by Membrane Filtration

Escherichia coli 2700 cfu/100 ml 10 consent limit of 260 cfu/100 ml ✗ Client Specification

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

Nitrate nitrogen 0.51 mg/l 0.01

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

Biochemical oxygen demand (BOD) 76 mg/l 2

NC03M Total Nitrogen in Water by Discrete Analyser (Trace)

Total Nitrogen (N) 26.2 mg/l 0.01 consent limit of 23 mg/l ✗ Client Specification

NC76G Total Phosphorus in Water by Discrete Analyser (Trace)

Total phosphorus 5.89 mg/l 0.01

NCOAE Total Suspended Solids in Water by Gravimetry

Suspended Solids 52.7 mg/l 2.5 consent limit of 30 mg/l ✗ Client Specification

SAMPLE CODE **817-2025-00076543**

Sampling Point code: NC0001572019

Reception Date & Time: 07/08/2025 13:33

Analysis Started on: 07/08/2025

Product Type Ground water, raw water

Sampler(s)

Sampling Point name: Shotover WWTP Bore 1

Reception temperature: 10.6 °C

Analysis Ending Date: 19/08/2025

Sampled Date & Time 07/08/2025 13:00

Sampling Purpose Monitoring

RESULTS

LOQ

© NC0AK Ammoniacal Nitrogen by Discrete Analyser

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RESULTS			LOQ
⑨ NC0AK	Ammoniacal Nitrogen by Discrete Analyser		
	Ammonia nitrogen	0.01 mg/l	0.01
ZMJGR	Enumeration of Escherichia coli by Membrane Filtration		
	Escherichia coli	<1 cfu/100 ml	1
NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)		
	Nitrate nitrogen	1.75 mg/l	0.01
⑦ NC04Q	Piezometer Level		
	Water Level	3.70 m	0.005
NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	2.04 mg/l	0.01
NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	0.17 mg/l	0.01

SAMPLE CODE		817-2025-00076545	
Sampling Point code:	NC0001572021	Sampling Point name:	Shotover WWTP Bore 3
Reception Date & Time:	07/08/2025 13:33	Reception temperature:	10.6 °C
Analysis Started on:	08/08/2025	Analysis Ending Date:	19/08/2025
Product Type	Ground water, raw water	Sampled Date & Time	07/08/2025 12:40
Sampler(s)		Sampling Purpose	Monitoring

RESULTS			LOQ
⑨ NC0AK	Ammoniacal Nitrogen by Discrete Analyser		
	Ammonia nitrogen	2.00 mg/l	0.01
ZMJGR	Enumeration of Escherichia coli by Membrane Filtration		
	Escherichia coli	<1 cfu/100 ml	1
NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)		
	Nitrate nitrogen	8.70 mg/l	0.01
NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	12.3 mg/l	0.01
NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	0.69 mg/l	0.01

SAMPLE CODE		817-2025-00076546	
Sampling Point code:	NC0001572022	Sampling Point name:	Shotover WWTP Bore 4
Reception Date & Time:	07/08/2025 13:33	Reception temperature:	10.6 °C
Analysis Started on:	08/08/2025	Analysis Ending Date:	19/08/2025
Product Type	Ground water, raw water	Sampled Date & Time	07/08/2025 12:50
Sampler(s)		Sampling Purpose	Monitoring

RESULTS			LOQ
⑨ NC0AK	Ammoniacal Nitrogen by Discrete Analyser		
	Ammonia nitrogen	4.61 mg/l	0.01
ZMJGR	Enumeration of Escherichia coli by Membrane Filtration		
	Escherichia coli	<1 cfu/100 ml	1
NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)		
	Nitrate nitrogen	0.48 mg/l	0.01
NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	5.27 mg/l	0.01
NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	0.44 mg/l	0.01

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RESULTS

LOQ

SAMPLE CODE 817-2025-00076548

Sampling Point code: NC0001572024

Reception Date & Time: 07/08/2025 13:33

Analysis Started on: 08/08/2025

Product Type Ground water, raw water

Sampler(s)

Sampling Point name: Shotover WWTP Bore 6

Reception temperature: 10.6 °C

Analysis Ending Date: 19/08/2025

Sampled Date & Time 07/08/2025 12:00

Sampling Purpose Monitoring

RESULTS

LOQ

© NCOAK **Ammoniacal Nitrogen by Discrete Analyser**

Ammonia nitrogen <0.01 mg/l 0.01

ZMJGR **Enumeration of Escherichia coli by Membrane Filtration**

Escherichia coli <1 cfu/100 ml 1

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

Nitrate nitrogen 5.69 mg/l 0.01

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

Total Nitrogen (N) 6.32 mg/l 0.01

NC76G **Total Phosphorus in Water by Discrete Analyser (Trace)**

Total phosphorus 1.14 mg/l 0.01

SAMPLE CODE 817-2025-00076549

Sampling Point code: NC0001572025

Reception Date & Time: 07/08/2025 13:33

Analysis Started on: 08/08/2025

Product Type Ground water, raw water

Sampler(s)

Sampling Point name: Shotover WWTP Bore 7

Reception temperature: 10.6 °C

Analysis Ending Date: 19/08/2025

Sampled Date & Time 07/08/2025 12:20

Sampling Purpose Monitoring

RESULTS

LOQ

© NCOAK **Ammoniacal Nitrogen by Discrete Analyser**

Ammonia nitrogen 9.69 mg/l 0.01

ZMJGR **Enumeration of Escherichia coli by Membrane Filtration**

Escherichia coli 3 cfu/100 ml 1

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

Nitrate nitrogen 0.89 mg/l 0.01

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

Total Nitrogen (N) 11.6 mg/l 0.01

NC76G **Total Phosphorus in Water by Discrete Analyser (Trace)**

Total phosphorus 1.95 mg/l 0.01

SAMPLE CODE 817-2025-00076550

Sampling Point code: NC0001572026

Reception Date & Time: 07/08/2025 13:33

Analysis Started on: 07/08/2025

Product Type Ground water, raw water

Sampler(s)

Sampling Point name: Shotover WWTP Bore 8

Reception temperature: 10.6 °C

Analysis Ending Date: 19/08/2025

Sampled Date & Time 07/08/2025 12:30

Sampling Purpose Monitoring

RESULTS

LOQ

© NCOAK **Ammoniacal Nitrogen by Discrete Analyser**

Ammonia nitrogen 0.93 mg/l 0.01

ZMJGR **Enumeration of Escherichia coli by Membrane Filtration**

Escherichia coli <1 cfu/100 ml 1

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	RESULTS	LOQ
NC03R Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)		
Nitrate nitrogen	16.6 mg/l	0.01
⑦ NC04Q Piezometer Level		
Water Level	3.96 m	0.005
NC03M Total Nitrogen in Water by Discrete Analyser (Trace)		
Total Nitrogen (N)	18.3 mg/l	0.01
NC76G Total Phosphorus in Water by Discrete Analyser (Trace)		
Total phosphorus	0.34 mg/l	0.01

LIST OF METHODS

NC03M Total Nitrogen in Water by Discrete Analyser (Trace): APHA Online Edition 4500-P J/4500-NH * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill	NC03N Carbonaceous Biochemical Oxygen Demand in Water by DO Meter: APHA Online Edition 5210 B * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill
NC03R Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace): Calculated, Calculation [(Nitrate-N + Nitrite-N) - Nitrite-N] * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill	NC04Q Piezometer Level: Internal Method, Performance test
NC05B Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode: APHA Online Edition 5210 B * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill	NC0AE Total Suspended Solids in Water by Gravimetry: APHA Online Edition 2540 D * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill
NC0AK Ammoniacal Nitrogen by Discrete Analyser: ISBN 0117516139 mod. * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill	NC76G Total Phosphorus in Water by Discrete Analyser (Trace): APHA Online Edition 4500-P B/J mod. * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill
ZMJGR Escherichia coli E [IVC] <1 >80 cfu/100 ml (0) mTEC Agar-F: US-EPA 1603:2014 * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill	ZMJU9 Escherichia coli E [IVC] <10 >80 000 cfu/100 ml (0-1) mTEC Agar-F: US-EPA 1603:2014 * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill

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 & Water Testing

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

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