

Food & Water Testing

ANALYTICAL REPORT

11/02/2025 AR-25-NC-003875-01 REPORT DATE REPORT CODE Attention Otago Regional Council Private Bag 1954 9054 DUNEDIN NFW 7FAI AND Phone Copy to: compliance regulatory Email Contact for your orders: Order code: EUNZCH-00206203 Contract: Incident Response Shotover WWTP IN24.0004 Submission Reference: **Purchase Order Number:** SAMPLE CODE 817-2025-00010363 Shotover WWTP Discharge from Disposal Field Sample Name Sample Reference IN24.0004A - Shotover WWTP Discharge from disposal Feild Reception Date & Time: 30/01/2025 13:45 Reception temperature: 17.1 °C **Analysis Started on:** 31/01/2025 **Analysis Ending Date:** 11/02/2025 **Product Type** Surface Water Sampled Date & Time 30/01/2025 10:30 Sampler(s) Sampling Purpose Monitoring **FAECAL SOURCE TRACKING RESULTS** LOQ **⑤NCO4R** Microbial Source Tracking (Faecal Source Tracking) Dna Extraction Complete N/A See Document Attached see attached N/A document **@NCAI2** Quantification of Canine DG72 MST marker by ddPCR Canine DG72 <180 copies/100 ml N/A **@NCAJ2** Quantification of Avian GFD MST marker by ddPCR Avian GFD 420 copies/100 ml N/A **@NCWF6** Quantification of Avian Gull4 MST marker by ddPCR Avian Gull4 <180 copies/100 ml N/A Human HF183 960 copies/100 ml N/A **@NCWH6** Quantification of Human HumM2 MST marker by ddPCR Human HumM2 <180 copies/100 ml N/A **RESULTS** LOQ *ZMJUN Enumeration of Escherichia coli by Membrane Filtration Escherichia coli 900 cfu/100 ml 1 *NC05B Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode Biochemical oxygen demand 2 (BOD)



Total Nitrogen (N)

Suspended Solids

Eurofins ELS Limited 142 Esk Street Invercargill 9810 NEW ZEALAND

16.4

16.8

mg/l

NCO3M Total Nitrogen in Water by Discrete Analyser (Trace)

*NCOAE Total Suspended Solids in Water by Gravimetry

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0.01

2.5







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SAMPLE CODE 817-2025-00010368

Sample Name Final Effluent Post UV Shotover WWTP

Sample Reference IN24.0004J - Final Effluent Post UV Shotover WWTP

Reception Date & Time: 17.1 °C 30/01/2025 13:45 Reception temperature: Analysis Started on: 31/01/2025 **Analysis Ending Date:** 06/02/2025

Product Type Sampled Date & Time effluent 30/01/2025 10:56

Sampler(s) Sampling Purpose Monitoring

RESULIS	LOQ

*ZMJUN	Enumeration of Escherichia coli by	y Membrane Filtration
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Escherichia coli cfu/100 ml

DECLUITO

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

mg/l Biochemical oxygen demand

*NCO3M Total Nitrogen in Water by Discrete Analyser (Trace)

Total Nitrogen (N) 0.01

*NCOAE Total Suspended Solids in Water by Gravimetry

Suspended Solids mg/l 2.5

LIST OF METHODS

NC03M	Total Nitrogen in Water by Discrete Analyser (Trace):	NC04R	Microbial Source Tracking (Faecal Source Tracking):
	APHA Online Edition 4500-P J/4500-NH		Method of the subcontractor (subcontract)

NC05B NC0AE Total Biochemical Oxygen Demand (TBOD 5 Days) by Total Suspended Solids in Water by Gravimetry: APHA

Electrode: APHA Online Edition 5210 B Online Edition 2540 D

NCAI2 NCAJ2 Quantification of Canine DG72 MST marker by ddPCR: Quantification of Avian GFD MST marker by ddPCR:

Method of the subcontractor (subcontract)

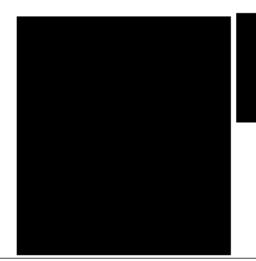
NCWF6 Quantification of Avian Gull4 MST marker by ddPCR: NCWG6 Quantification of Human HF183 MST marker by ddPCR:

Method of the subcontractor (subcontract) Method of the subcontractor (subcontract)

NCWH6 Quantification of Human HumM2 MST marker by Escherichia coli E (Water) [NZ Water] <1 >6 000 /100 ml ddPCR: Method of the subcontractor (subcontract)

(0) m-FC Agar-F: SMEWW 92221; APHA 24th Edition

Signature





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- 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
- Test is subcontracted outside Eurofins group and is not accredited
- Test result is provided by the customer and is not accredited
- Tested at the sampling point by Eurofins and is not accredited
- Tested at the sampling point by Eurofins and is accredited
- **9**Test is RLP accredited
- 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

x (Unsatisfactory) means does not meet the specification

✓ (Satisfactory) means meets the specification

MAV means Maximum Allowable Value

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. This document can only be reproduced in full.

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.

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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.

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END OF REPORT



