



Cawthron Institute

Client Number 34

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Authorised Representative

Mrs Anneke van Laanen
Quality Manager – Analytical Science

Programme

Drinking Water Testing Laboratory

Accreditation Number 794

Initial Accreditation Date 14 January 2002

Conformance Standard

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories
Drinking-Water Standards for New Zealand 2005 (Revised 2018)

Laboratory Services Summary

Microbiology

1.12 Waters (NZ Drinking Water Standards – Microbiology)

Chemical

2.41 Waters (NZ Drinking Water Standards – Chemistry)

Key Technical Personnel

Microbiology

Ms Pam Curtis	1.12; selected
Mr Mark Englefield	1.12; selected
Mrs Krishna Harris	1.12; selected
Mr Ryan Hunter	1.12; selected
Ms Simone Jarrett	1.12; selected
Mr Daniel List	1.12; selected
Ms Sumali Nanayakkara	1.12; selected
Mr Sarbjit Singh	1.12; selected

Chemical

Mr Michael Boundy	2.41; selected
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CERTIFICATE OF ACCREDITATION



Ms Emillie Burger	2.41; selected
Mr Mark Englefield	2.41; selected
Christina Harris	2.41; selected
Mrs Krishna Harris	2.41; selected
Mrs Penny Harrison	2.41; selected
Mr Sarbjit Singh	2.41; selected
Mr Roel van Ginkel	2.41; selected

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Cawthron Institute
 Drinking Water Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 794

Microbiology

The following scope of accreditation provides for the testing of potable waters for the purpose of assessing compliance with the Drinking-Water Standards for New Zealand 2005 (Revised 2018)

1.12 Waters (NZ Drinking Water Standards – Microbiology)

(a) Potable waters

In accordance with APHA “Standard Methods for the Examination of Water and Wastewater” (On-line Edition) except where otherwise indicated

Determinand	Method Reference
Cyanobacteria algae	In-house based on Hotzel & Croombe
Cyanobacteria toxin genes	In house
<i>E. coli</i> – Colilert MPN	9223 B
<i>E. coli</i> – Colilert Quantitray (51 well)	9223 B
<i>E. coli</i> – Colilert Quantitray (97 well)	9223 B
<i>E. coli</i> – Colilert-18 Quantitray (51 well)	9223 B
<i>E. coli</i> – Colilert-18 Quantitray (97 well)	9223 B
<i>E. coli</i> – MF	9222 H
<i>E. coli</i> – MPN	9221 F
Total coliforms – Colilert MPN	9223 B
Total coliforms – Colilert Quantitray (51 well)	9223 B
Total coliforms – Colilert Quantitray (97 well)	9223 B
Total coliforms – Colilert-18 Quantitray (51 well)	9223 B
Total coliforms – Colilert-18 Quantitray (97 well)	9223 B
Total coliforms – MPN	9221 B

Chemical

2.41 Waters (NZ Drinking Water Standards – Chemistry)

(a) Potable waters

Chemical Methods for Microbiological Compliance

In accordance with APHA “Standard Methods for the Examination of Water and Wastewater” (On-line Edition) except where otherwise indicated

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Determinand

pH
 Turbidity

Method Reference

4500-H B
 2130 B

Organic Determinands

Determinand

Anatoxin-a
 Cylindrospermopsin
 Dihydro-anatoxin-a
 Dihydro-homoanatoxin-a
 Homoanatoxin-a
 Microcystins
 Nodularin
 Saxitoxins

Method Reference

In-house based on Bogialli et al
 In-house based on Bogialli et al
 In-house based on Bogialli et al
 In-house based on Bogialli et al
 In-house based on Bogialli et al
 In-house based on Spooft et al
 In-house based on Spooft et al
 JAOAC (2015), Int 98(3) 609-621 (modified)

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