



Central Environmental Laboratories

Client Number 28

PO Box 8017, Hokowhitu, Palmerston North, 4446
 Module 2, Batchelar Agricultural Centre, Batchelar Road, Palmerston North, 4474

Telephone 06 351-4475

www.cenlab.co.nz

Authorised Representative

Mr Johan Bosch
 Principal Analyst

Programme

Drinking Water Testing Laboratory

Accreditation Number 816

Initial Accreditation Date 6 March 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

Analysis

1.12 Waters (NZ Drinking Water Standards - Microbiology)
 2.41 Waters (NZ Drinking Water Standards - Chemistry)

Sampling

1.12 Sampling (Drinking Water only)
 2.41 Sampling (Drinking Water only)

Key Technical Personnel

Analysis

Mr Johan Bosch 1.12, 2.41
 Ms Natasha Douglas 1.12
 Ms Carrie-Ann Leighton 2.41; selected
 Ms Nishani Thennakoon 2.41; selected

Sampling

Mr Johan Bosch 1.12, 2.41
 Ms Carol Kellett 1.12, 2.41

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Central Environmental Laboratories
 Drinking Water Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 816

Analysis

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” (23rd Edition) except where otherwise indicated

Determinand	Method Reference	Method Short Code
<i>E. coli</i> - Colilert Quantitray (97 well)	9223 B	ColiQT
<i>E. coli</i> - MF	9222 I	MF
Faecal coliforms - MF	9222 D	MF
Total coliforms - Colilert Quantitray (97 well)	9223 B	ColiQT
Total coliforms - MF	9222 B	MF

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” (23rd Edition) except where otherwise indicated

Determinand	Method Reference	Method Short Code
Free available chlorine	4500-Cl F	DPD
pH	4500-H ⁺ B	PHM
Turbidity	USEPA 180.1	TMET

INORGANIC DETERMINANDS

In accordance with APHA “Standard Methods for the Examination of Water and Wastewater” (23rd Edition) except where otherwise indicated

Determinand	Method Reference	Method Short Code
Arsenic	3125 B	ICPMS
Barium	3125 B	ICPMS
Boron	Analyst 105 (Feb 1980) 139-146	AZOC

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Boron	3125 B	ICPMS
Cadmium	3125 B	ICPMS
Chlorine	4500-Cl F	DPD
Chromium	3111 B	AAS
Chromium	3125 B	ICPMS
Copper	3125 B	ICPMS
Copper	3111 B	AAS
Fluoride	4110 B	IC
Lead	3125 B	ICPMS
Manganese	3111 B	AAS
Manganese	3125 B	ICPMS
Molybdenum	3125 B	ICPMS
Nickel	3111 B	AAS
Nickel	3125 B	ICPMS
Nitrate	4110 B	IC
Nitrite	4500-NO ₂ B	DIAZ
Nitrite	4110 B	IC
Selenium	3125 B	ICPMS
Uranium	3125 B	ICPMS

AESTHETIC DETERMINANDS

In accordance with APHA Standard Methods for the Examination of Water and Wastewater (23rd Edition) except where otherwise indicated.

Determinand	Method Reference
Aluminium	3125 B
Calcium	3125 B
Iron	3125 B
Magnesium	3125 B
Potassium	3125 B
Sodium	3125 B
Temperature	2550 B
Zinc	3125 B

Sampling

1.12 Sampling (Drinking Water only)

2.41 Sampling (Drinking Water only)

(a) Potable waters

Sampling of potable water by In-house method based on AS/NZS 5667.1-12:1998

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