

Laboratory Accreditation Programmes

Schedule to
CERTIFICATE OF ACCREDITATION

Hill Laboratories

Client No: 590

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Authorised Representative:
 Ms Gillian Lees
 Quality Manager

Programme
 Drinking Water Testing Laboratory

Accreditation Number: 798

Date of Accreditation: 15 January 2002

Conformance Standard
 NZS ISO/IEC 17025:2005
 General requirements for the competence of testing and calibration laboratories
 Drinking-Water Standards for New Zealand 2005 (Revised 2008)

Testing Services Summary

2.41 Waters (NZ Drinking Water Standards - Chemistry)

Key Technical Personnel

Mr Graham Corban	2.41
Dr Peter Robinson	2.41
Miss Ara Heron	2.41
Mrs Karen Nichol	2.41; selected tests
Mr Alistair Boyd	2.41; selected tests
Mr Jon Harris	2.41; selected tests
Dr Jonathan Hill	2.41; selected tests
Mrs Carole Rodgers-Caroll	2.41; selected tests
Mr Richard Schriener	2.41; selected tests
Dr Jane Sherrard	2.41; selected tests

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Hill Laboratories
 Drinking Water Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation No 798

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 2008)

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” (21st Edition) except where otherwise indicated

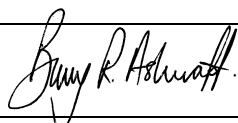
Determinand	Method Reference	WINZ Method Code
Colour @ 465nm	2120 B	COMP
Turbidity	2130 B	TMET
pH	4500-H B	PHM

INORGANIC DETERMINANDS

In accordance with APHA “Standard Methods for the Examination of Water and Wastewater” (21st Edition) except where otherwise indicated

Determinand	Method Reference	WINZ Method Code
Antimony	EPA 200.8	ICPMS
Arsenic	EPA 200.8	ICPMS
Barium	EPA 200.8	ICPMS
Boron	EPA 200.8	ICPMS
Bromate	EPA 300.1	IC
Cadmium	EPA 200.8	ICPMS
Chlorate	EPA 300.1	IC
Chlorine	4500-Cl G	DPDLC
Chlorite	EPA 300.1	IC
Chromium	EPA 200.8	ICPMS
Copper	EPA 200.8	ICPMS
Cyanide (total)	4500-CN C	DISTIL
Cyanide (total)	4500-CN E	COLOR
Fluoride	4110 B	IC
Fluoride	4500-F C	ISE
Lead	EPA 200.8	ICPMS
Manganese	EPA 200.8	ICPMS
Mercury	3112 B	AAVG
Mercury	EPA 245.7	CVAF
Molybdenum	EPA 200.8	ICPMS
Monochloramine	4500-Cl G	DPDLC
Nickel	EPA 200.8	ICPMS

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Nitrate (as NO ₃)	4500- NO ₃ E	CDRD
Nitrate (as NO ₃)	4110 B	IC
Nitrate (as N)	4500-NO ₃ E	CDRD
Nitrate (as N)	4110 B	IC
Nitrite (as N)	4500-NO ₂ B	DIAZ
Nitrite (as N)	4110 B	IC
Nitrite (as NO ₂)	4500-NO ₂ B	DIAZ
Nitrite (as NO ₂)	4100 B	IC
Plumbosolvent water	EPA 200.8	ICPMS
Selenium	EPA 200.8	ICPMS
Uranium	EPA 200.8	ICPMS

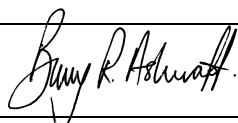
ORGANIC DETERMINANDS

The following determinands are tested at Clyde Street.

In accordance with APHA "Standard Methods for the Examination of Water and Wastewater" (21st Edition) except where otherwise indicated

Determinand	Method Reference	WINZ Method Code
Acrylamide	In-house	LCMSMS
Benzene	EPA 8260 B	PTGCMS
Benzo(a)pyrene	EPA 8270 D	LLEGCMS
Bromodichloromethane	EPA 8260 B	PTGCMS
Bromoform	EPA 8260 B	PTGCMS
Carbon tetrachloride	EPA 8260 B	PTGCMS
Chloroform	EPA 8260 B	PTGCMS
Di(2-ethylhexyl)phthalate	EPA 8270 D	LLEGCMS
Dibromoacetonitrile	EPA 551.1	LLEGCMS
Dibromochloromethane	EPA 8260 B	PTGCMS
Dichloroacetic acid	EPA 552.3	LLEGCMS
Dichloroacetonitrile	EPA 551.1	LLEGCMS
1,2-Dichlorobenzene	EPA 8260 B	LLEGCMS
1,4-Dichlorobenzene	EPA 8260B	LLEGCMS
1,2-Dichloroethane	EPA 8260 B	PTGCMS
1,2-Dichloroethene (cis/trans)	EPA 8260 B	PTGCMS
Dichloromethane	EPA 8260 B	PTGCMS
Epichlorohydrin	In-house	SPMEGCMS
Ethylbenzene	EPA 8260 B	PTGCMS
Hexachlorobutadiene	EPA 8260 B	LLEGCMS
Monochloroacetic acid	EPA 552.3	LLEGCMS
Styrene	EPA 8260 B	PTGCMS
Tetrachloroethene	EPA 8260 B	PTGCMS
Toluene	EPA 8260 B	PTGCMS
Trichloroacetic acid	EPA 552.3	LLEGCMS
Trichloroethene	EPA 8260 B	PTGCMS
Trihalomethanes	EPA 840 B (calc.)	Sum of MAV Ratios

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2,4,6-Trichlorophenol	EPA 8270 D	LLEGCMS
Vinyl chloride	EPA 8260 B	PTGCMS
Xylenes	EPA 8260 B	PTGCMS

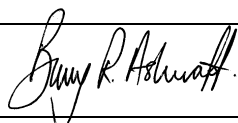
PESTICIDES

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Determinand	Method Reference	WINZ Method Code
Alachlor	In-house	SPGCMS
Aldicarb	In-house	LCMSMS
Aldrin/Dieldrin	EPA 8081 B	SPGCECD
Atrazine	In-house	SPGCMS
Azinphos-methyl	In-house	SPGCMS
Bromacil	In-house	SPGCMS
Carbofuran	In-house	SPGCMS
Chlordane	EPA 8081 B	SPGCECD
Chlorpyrifos	In-house	SPGCMS
Chlortoluron	In-house	SPGCMS
Cyanazine	In-house	SPGCMS
2,4-D	In-house	SPGCMS
2,4-DB	In-house	SPGCMS
DDT and isomers	EPA 8081 B	SPGCECD
1,2-Dibromoethane	EPA 8260 B	PTGCMS
1,2-Dibromo-3-chloropropane	EPA 8260 B	PTGCMS
1,2-Dichloropropane	EPA 8260 B	PTGCMS
1,3-Dichloropropene	EPA 8260 B	PTGCMS
Dichlorprop	In-house	SPGCMS
Dimethoate	In-house	SPGCMS
Diuron	In-house	SPGCMS
Endrin	EPA 8081 B	SPGCECD
Fenoprop	In-house	SPGCMS
Hexazinone	In-house	SPGCMS
Isoproturon	In-house	SPGCMS
Lindane	EPA 8081 B	SPGCECD
MCPA	In-house	SPGCMS
Mecoprop	In-house	SPGCMS
Metalaxyl	In-house	SPGCMS
Methoxychlor	EPA 8081 B	SPGCECD
Metolachlor	In-house	SPGCMS
Metribuzin	In-house	SPGCMS
Molinate	In-house	SPGCMS
Oryzalin	In-house	LCMSMS
Oxadiazon	In-house	SPGCMS

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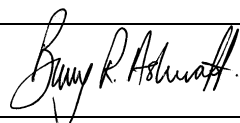
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Pendimethalin	In-house	SPGCMS
Pentachlorophenol	In-house	LLGCECD
Picloram	In-house	SPGCMS
Pirimiphos methyl	In-house	SPGCMS
Primisulfuron methyl	In-house	LCMSMS
Procymidone	In-house	SPGCMS
Propazine	In-house	SPGCMS
Pyriproxifen	In-house	SPGCMS
Simazine	In-house	SPGCMS
2,4,5-T	In-house	LCMSMS
2,4,5-T	In-house	SPGCMS
Terbacil	In-house	SPGCMS
Terbutylazine	In-house	SPGCMS
Thiabendazole	In-house	SPGCMS
Triclopyr	In-house	SPGCMS
Trifluralin	In-house	SPGCMS

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