

# CERTIFICATE OF ACCREDITATION



**RJ Hill Laboratories Ltd (Hill Labs)**  
Hamilton

**Client Number 590**

Private Bag 3205, Waikato Mail Centre, Hamilton, 3240  
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**www.hill-labs.co.nz**

**Authorised Representative**  
Ms Leisle Jacobsen  
Quality Manager/Lead Auditor

**Programme**  
Drinking Water Testing Laboratory

**Accreditation Number 798**

**Initial Accreditation Date 15 January 2002**

**Conformance Standard**

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories  
Water Services (Drinking Water Standards for New Zealand) Regulations 2022

**Laboratory Services Summary**

**Analysis**

1.12 Waters (Microbiology)  
2.41 Waters (Chemistry)

|                                      |  |          |                |             |
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**Analysis**

The following scope of accreditation provides for the testing of potable waters for the purposes of assessing compliance with the Water Services (Drinking Water Standards for New Zealand) Regulations 2022, the Aesthetics Values for Drinking Water Notice 2022 in accordance with the Taumata Arowai publications Requirements Relating to Laboratories 2021 and the Drinking Water Quality Assurance Rules 2022.

**1.12 Waters (Microbiology)**

**(a) Potable waters**

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

| <b>Determinand</b>                                 | <b>Method Reference</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> – MPN                               | 9221 F                        |
| <i>E. coli</i> – MF                                | ISO 9308 -1 (2014) / Amd 2016 |
| 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                        |
| Total coliforms – MF                               | ISO 9308-1 (2014) / Amd 2016  |

**2.41 Waters (Chemistry)**

**(a) Potable waters**

**INORGANIC DETERMINANDS**

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

| <b>Determinand</b> | <b>Method Reference</b> |
|--------------------|-------------------------|
| Aluminium          | 3125                    |
| Antimony           | 3125                    |

|                                      |  |          |                |             |
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|                  |                        |
|------------------|------------------------|
| Arsenic          | 3125                   |
| Barium           | 3125                   |
| Boron            | 3125                   |
| Bromate          | USEPA 300.1 (modified) |
| Cadmium          | 3125                   |
| Chlorate         | USEPA 300.1 (modified) |
| Chlorine         | 4500-CI G              |
| Chlorite         | USEPA 300.1 (modified) |
| Chromium         | 3125                   |
| Copper           | 3125                   |
| Cyanide (total)  | 4500-CN C (modified)   |
| Cyanide (total)  | 4500-CN E (modified)   |
| Cyanide (total)  | ISO 14403: 2012(e)     |
| Cyanide (WAD)    | 4500-CN O (modified)   |
| Fluoride         | 4110 B (modified)      |
| Fluoride         | 4500-F C               |
| Lead             | 3125                   |
| Manganese        | 3125                   |
| Mercury          | USEPA 245.7            |
| Mercury          | 3125                   |
| Monochloramine   | 4500-CI G              |
| Nickel           | 3125                   |
| Nitrate (as NO3) | 4500-NO3 I (modified)  |
| Nitrate (as NO3) | 4110 B (modified)      |
| Nitrate (as N)   | 4500-NO3 I (modified)  |
| Nitrate (as N)   | 4110 B (modified)      |
| Nitrite (as N)   | 4110 B (modified)      |
| Nitrite (as NO2) | 4110 B (modified)      |
| Selenium         | 3125                   |
| Uranium          | 3125                   |

**ORGANIC DETERMINANDS**

In accordance with methods indicated below. In-house methods are In-house based on USEPA:

| Determinand                    | Method Reference |
|--------------------------------|------------------|
| 1,2-Dibromoethane              | In-house         |
| 1,2-Dichlorobenzene            | In-house         |
| 1,2-Dichloroethane             | In-house         |
| 1,2-Dichloroethene (cis/trans) | In-house         |
| 1,2-Dichloropropane            | In-house         |
| 1,3-Dichloropropene            | In-house         |
| 1,4-Dichlorobenzene            | In-house         |
| 2,4,5-T                        | In-house         |
| 2,4,6-Trichlorophenol          | USEPA 8270       |

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|                           |                              |
|---------------------------|------------------------------|
| 2,4,6-Trichlorophenol     | In-house based on USEPA 8270 |
| 2,4-D                     | In-house                     |
| 2,4-DB                    | In-house                     |
| Acrylamide                | In-house                     |
| Alachlor                  | In-house                     |
| Aldicarb                  | In-house                     |
| Aldrin/Dieldrin           | USEPA 8081                   |
| Aldrin/Dieldrin           | In-house                     |
| Aldrin/Dieldrin           | In-house                     |
| Atrazine                  | In-house                     |
| Azinphos-methyl           | In-house                     |
| Benzene                   | In-house                     |
| Benzo(a)pyrene            | USEPA 8270                   |
| Benzo(a)pyrene            | In-house                     |
| Benzo(a)pyrene            | In-house based on USEPA 8270 |
| Bromacil                  | In-house                     |
| Bromodichloromethane      | In-house                     |
| Bromoform                 | In-house                     |
| Carbofuran                | In-house                     |
| Carbon tetrachloride      | In-house                     |
| Chlordane                 | USEPA 8081                   |
| Chlordane                 | In-house                     |
| Chlordane                 | In-house                     |
| Chloroform                | In-house                     |
| Chlorotoluron             | In-house                     |
| Chlorpyrifos              | In-house                     |
| Cyanazine                 | In-house                     |
| DDT and isomers           | USEPA 8081                   |
| DDT and isomers           | In-house                     |
| DDT and isomers           | In-house                     |
| Di(2-ethylhexyl)phthalate | USEPA 8270                   |
| Di(2-ethylhexyl)phthalate | In-house based on USEPA 8270 |
| Dibromoacetonitrile       | USEPA 551.1                  |
| Dibromochloromethane      | In-house                     |
| Dichloroacetic acid       | USEPA 552.3                  |
| Dichloroacetonitrile      | USEPA 551.1                  |
| Dichloromethane           | In-house                     |
| Dichloroprop              | In-house                     |
| Dimethoate                | In-house                     |
| Diuron                    | In-house                     |
| EDTA                      | In-house                     |
| Endrin                    | USEPA 8081                   |
| Endrin                    | In-house                     |
| Endrin                    | In-house                     |
| Ethylbenzene              | In-house                     |
| Fenoprop                  | In-house                     |
| Hexachlorobutadiene       | In-house                     |

|                                      |  |          |                |             |
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|  |                              |
|--|------------------------------|
| Hexazinone   | In-house                     |
| Isoproturon  | In-house                     |
| Lindane  | USEPA 8081                   |
| Lindane  | In-house                     |
| Lindane  | In-house                     |
| MCPA   | In-house                     |
| Mecoprop   | In-house                     |
| Metalaxyl  | In-house                     |
| Methoxychlor   | USEPA 8081                   |
| Methoxychlor   | In-house                     |
| Methoxychlor   | In-house                     |
| Metolachlor  | In-house                     |
| Metribuzin   | In-house                     |
| Molinate   | In-house                     |
| Monochloroacetic acid  | USEPA 552.3                  |
| Oryzalin   | In-house                     |
| Oxadiazon  | In-house                     |
| Pendimethalin  | In-house                     |
| Pentachlorophenol  | In-house                     |
| Perfluorohexane sulfonate (PFHxS) + Perfluorooctane sulfonate (PFOS) | ASTM D8421 Online (modified) |
| Perfluorooctanoic acid (PFOA)  | ASTM D8421 Online (modified) |
| Picloram   | In-house                     |
| Pirimiphos methyl  | In-house                     |
| Primisulfuron methyl   | In-house                     |
| Procymidone  | In-house                     |
| Propazine  | In-house                     |
| Pyriproxifen   | In-house                     |
| Simazine   | In-house                     |
| Styrene  | In-house                     |
| Terbacil   | In-house                     |
| Terbutylazine  | In-house                     |
| Tetrachloroethene  | In-house                     |
| Thiabendazole  | In-house                     |
| Toluene  | In-house                     |
| Trichloroacetic acid   | USEPA 552                    |
| Trichloroethene  | In-house                     |
| Triclopyr  | In-house                     |
| Trifluralin  | In-house                     |
| Trihalomethanes  | In-house                     |
| Trihalomethanes  | USEPA 840 (calc.)            |
| Vinyl chloride   | In-house                     |
| Xylenes  | In-house                     |

**AESTHETIC DETERMINANDS**

|                                      |  |          |                |             |
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| <b>Determinand</b> | <b>Method Reference</b> |
|--------------------|-------------------------|
| Colour             | 2120 C (modified)       |
| pH                 | 4500-H B (modified)     |
| Turbidity          | 2130 B (modified)       |

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