

# **Annual Report on Drinking- water Quality**

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2014–2015

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Citation: Ministry of Health. 2016. *Annual Report on Drinking-water Quality 2014–2015*. Wellington: Ministry of Health.

Published in March 2016  
by the Ministry of Health  
PO Box 5013, Wellington 6145, New Zealand

ISSN 1179-2604  
HP 6360

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# Key findings

This report describes drinking-water quality for all registered networked drinking-water supplies that served populations of more than 100 people (the supplies) from 1 July 2014 to 30 June 2015 (the reporting period), representing 3,787,000 people (the report population). It describes how these supplies met the requirements of the *Drinking-water Standards for New Zealand* (the Standards) and their progress towards meeting the requirements of the Health Act 1956, as amended in 2007 (the Act).

To meet the overall requirements of the Standards, a supply must meet the bacteriological, protozoal and chemical standards. Overall, 79.4 percent of New Zealanders (3,008,000 people) on these supplies received drinking-water that met all requirements of the Standards in the reporting period. This represents a 0.5 percentage point improvement compared with the previous (1 July 2013 to 30 June 2014) reporting period.

Drinking-water that achieved the bacteriological standards was received by 96.8 percent of the report population (3,666,000 people) during the period, which is a decrease of 0.4 percentage points compared with the previous period. Protozoal achievement decreased by 0.8 percentage points from 80.8 percent to 80.0 percent (3,030,000 people), while chemical achievement increased by 1.3 percentage points from 97.4 percent to 98.7 percent (3,737,000 people).

Achievement against the Standards was generally highest in the large supplies and lowest in the small supplies. The exception to this was the rate of chemical achievement. While achievement was highest in large supplies, small supplies achieved better than medium or minor supplies because they are not normally required to be assessed for chemical constituents and so achieved by default.

As scheduled in the Act, water suppliers could elect to use the 2000 Standards instead of the 2005 Standards (Revised 2008) only until 31 December 2014. Because this date is mid-way through the reporting period, supplies serving 75,000 people were assessed for six months against each Standard. No suppliers continued to use the 2000 Standards for the full period.

Some of the duties of drinking-water suppliers (specified in sections 69S–69ZC of the Act) take effect progressively over a number of years, having started on 1 July 2012 for large supplies. As part of these provisions, water suppliers are required to prepare and implement water safety plans. Overall, 95.0 percent of the report population received water from supplies that had plans being implemented by 1 July 2015, while only 0.5 percent (18,000 people) received water from supplies where plan drafting has not yet commenced.

The proportion of the report population that received water from supplies with a water safety plan being implemented has risen to 95.0 percent, compared with 90.6 percent in the previous period. All large supplies met the requirement that they should be implementing their plans. However, the requirement that all medium supplies should now have plans that are being implemented was not met for 10.1 percent (27,000 people) of the medium supply population served. Minor supplies are required to have plans that were approved or being implemented during the period, but this requirement was not met for 14.8 percent (73,000 people) of the minor supply population served.

The report population with plans that are approved or are being implemented is now 96.7 percent, up from 94.6 percent in the previous period. As well as including all large supplies (as in the previous period), there was an improvement between periods of 7.2 percentage points for those in medium supplies and 11.7 percentage points for those in minor supplies.

During the 1 July 2014 to 30 June 2015 reporting period, a number of other actions were carried out by water suppliers to meet the requirements of the Act.

- **Monitoring:** Overall, supplies serving 97.7 percent of the report population met the monitoring requirements of the Standards, up from 97.1 percent in the previous period. Achievement against the *Escherichia coli* and chemical monitoring requirements of the Standards ranged from 99.6 percent for populations receiving water in large supplies, through to 82.7 percent for people in small supplies.
- **Provision of drinking water:** Overall, supplies serving 95.0 percent of the report population met the requirement for provision of drinking water and notification of interruptions during the reporting period, including all large supplies but one, all medium supplies, and all minor supplies but one. This was a 3.5 percentage point decrease compared with the previous period.
- **Source protection:** Overall, supplies serving 99.8 percent of the report population met this requirement. Except for 14 small supplies that do not need to meet this requirement until the next reporting period, only two minor supplies failed.
- **Records:** Adequate records were maintained for supplies providing water to 99.8 percent of the report population. All large and medium supplies met the records requirement, and all but two minor supplies. In most cases, small supplies are not required by the Act to keep records, but supplies for 96.8 percent of the small supply population did so.
- **Complaints:** Water suppliers investigated all of the complaints they received concerning the drinking-water they supplied to the report population, except for one minor and 11 small supplies, serving a total of 4400 people.
- **Remedial action:** Almost all water suppliers undertook immediate remedial action in response to transgressions of the Standards. Water suppliers did not take remedial action, when necessary, in one large, one medium, and 21 minor or small supplies serving 1.1 percent of the report population. During the previous reporting period, 22 minor or small supplies, serving 0.5 percent of the supply population, did not take remedial action, when necessary.

Water suppliers are moving towards a more proactive approach to protect public health. In general, the larger supplies have a greater level of compliance with their current requirements than smaller suppliers. However, for medium and minor supplies, more progress is needed to meet the progressively introduced requirements for water safety plans.

Small drinking-water suppliers were not required to meet the requirements of sections 69S to 69ZC of the Act within the reporting period, including the requirements regarding monitoring, water safety plans, provision of drinking water and source protection. Nevertheless, with the exception of water safety plans, most of these drinking-water suppliers did meet those requirements.

The report population of 3,787,000 people is 1.1 percent lower (41,000 people) than that of the previous reporting period. This is not a decrease in people receiving water from reticulated supplies as a whole, but primarily reflects updated supply population estimates for the Christchurch area through using an improved methodology, including a greater emphasis on census data.

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# 1. Introduction

This report describes drinking-water quality for all registered networked drinking-water supplies that served populations of more than 100 people (the supplies) from 1 July 2014 to 30 June 2015 (the reporting period), representing 3,787,000 people (the report population). It describes how drinking-water supplies met the requirements of the *Drinking-water Standards for New Zealand* (the Standards)<sup>1</sup> and their progress towards meeting the requirements of the Health Act 1956, as amended in 2007 (the Act).

In addition, the report meets the requirement under the Act for the Director-General to prepare and publish a report on drinking-water each year that includes information about the quality of drinking-water, achievement against the Standards and compliance of drinking-water suppliers with the Act.

In 2009, the requirement for each category of water supplier to comply with sections 69S to 69ZC of the Act (relating to drinking-water) was deferred for three years.<sup>2</sup> These requirements come into force on staggered dates, beginning from 1 July 2012, and require compliance for:

- large and all new drinking-water supplies (more than 10,000 people) from 1 July 2012
- medium drinking-water supplies (5001 to 10,000 people) from 1 July 2013
- minor drinking-water supplies (501 to 5000 people) from 1 July 2014
- small drinking-water supplies (101 to 500 people) from 1 July 2015
- neighbourhood drinking-water supplies (25 to 100 people) from 1 July 2016
- rural agricultural drinking-water supplies from 1 July 2016 or the date on which the Standards are amended to include them, whichever is later.

The delay was to enable councils and other drinking-water suppliers to assess the impact of the economic climate on their operations. It also enabled councils to consider the implications of the legislation on their Long Term Plans. It was the Government's expectation that water suppliers would continue to plan for compliance. The changes did not affect the existing legal requirements for suppliers to keep records, investigate complaints and take remedial action if they became aware of contamination in their water supplies.

This report describes the methods used to gather the data and the caveats on the data and its interpretation. The report then presents findings regarding achievement against the Standards and meeting the legislative requirements of the Act for the large, medium, minor and small size categories of drinking-water supplies. These findings are followed by a discussion and an interpretation of the findings.

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<sup>1</sup> Until 31 December 2014, water suppliers could elect to comply with either the *Drinking-water Standards for New Zealand 2000* or the *Drinking-water Standards for New Zealand 2005 (Revised 2008)*. From 1 January 2015, only the 2005 Standards may be used. Ministry of Health, Wellington.

<sup>2</sup> Health (Deferral of General Application of Sections 69S to 69ZC) Order 2009.

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## 2. Methods

Information on drinking-water quality was obtained from drinking-water assessors employed by district health board public health units, using questionnaires that sought data relating to water supply quality, monitoring and management. The information was collected at the level of the distribution zone, that is, the quality of water supplied to consumers.

Two surveys were used to gather information from registered networked drinking-water supplies that served populations of more than 100 people from 1 July 2014 to 30 June 2015. The first survey sought information about the microbiological and chemical quality of the drinking-water, water treatment processes in use, the means used to demonstrate achievement against the Standards, and the status of water safety plans. This survey utilised the online Water Information New Zealand (WINZ) database.

The second survey sought information relating to the management of the supplies by drinking-water suppliers, in terms of the requirements of the Act that will eventually apply to water suppliers. An Excel spreadsheet was designed to collect the information and was completed by drinking-water assessors in discussion with drinking-water suppliers. The completed spreadsheets were returned to ESR for compilation and analysis.

The following caveats apply for the purposes of data interpretation:

- The term 'water supply' in this report refers to a distribution zone, which is all or part of a reticulated supply for which the water is expected to be of consistent quality throughout. While smaller communities usually have a single distribution zone, larger communities may have two or more. Size groupings of supplies are therefore based on the population served by each zone.
- The report includes all registered networked drinking-water supply distribution zones that served more than 100 people, based on the information contained in the WINZ database as at 30 June 2015.
- The population statistics in this report are calculated from the distribution zone populations as recorded in WINZ. These zone populations are estimates, reassessed from time to time by each supplier, and it is not currently possible to determine their accuracy. Furthermore, it is likely that the WINZ population figures include residents-only in some zones, and residents and non-residents in other zones.
- Population figures in this report are rounded to the nearest thousand, except when they are less than 10,000 or refer to small water supplies. In those cases, they are rounded to the nearest hundred.
- A small number of networked water supplies may be misclassified as self-supplies and vice versa. Apparent discrepancies (for example, where the name of a distribution zone does not seem to fit the supply classification) have been queried with the drinking-water assessors and corrected if necessary.
- For the purposes of the Standards' achievement statistics, supplies that met the Standards part-way through the reporting period, as a result of improving treatment processes or monitoring programmes, have been marked as meeting requirements for that aspect. These supplies can be identified in Appendix 2.



- Overall adequacy of monitoring has been assessed on the basis of *Escherichia coli* and chemical monitoring. There is no requirement to directly monitor for protozoa in the Standards.
- Protozoal achievement is assessed only at the treatment plant. Because this report is distribution zone-based, a zone was determined to achieve the protozoal standards if all treatment plants supplying the zone during the reporting period achieved the protozoal standards.
- Where a supplier used the 2000 Standards for the first portion of the 2014-2015 reporting period and the 2005 Standards for the remainder, a mixed Standard assessment was performed by drinking water assessors outside of the questionnaire. The composite assessment was then entered in the questionnaire as if for the 2005 Standards overall.
- At least five weeks were allocated for the information gathering period, starting on 1 July 2015. Where a drinking-water supplier did not respond to a drinking-water assessor's requests for information, or responded after the agreed period had closed, then their zones were marked as non-compliant in this report. However, almost all suppliers responded for this report.
- Acceptable answers to the questions about the legislative requirements included 'not applicable' (n/a) for source protection and complaints. The percentage of supplies meeting the requirements of the legislation was calculated as the percentage of zones that answered 'yes' or 'n/a'.
- Percentage figures used for achievement against the Standards and meeting the requirements of the Act were calculated using the populations in the zones as reported in the WINZ survey.
- All percentage figures in this report are rounded. Accordingly, totals may not always add up to 100 percent.
- Changes in rates of achievement or compliance between reporting periods are primarily expressed in absolute terms of percentage point changes for the population supplied. Because the overall report population differed between reporting periods, changes in affected supply population numbers between periods are expressed relative to the current period's population.

Data quality assurance was built into all stages of the process, from data collection to reporting. A number of checks, including integrity checks, peer reviewing and duplicate analysis, were employed to ensure that the data reported reflected the information collected by the surveys. Additional checks of the data were made by the drinking-water assessors and water suppliers, who reviewed drafts of the zone-level data reported in the appendices.

Overall, there was a higher level of quality assurance for information collected in the WINZ survey, assessing achievement against the Standards, than for the survey assessing achievement against the requirements of the Act. This is due to the robust design of the WINZ survey module and its associated tools, providing almost real-time data integrity checking.

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## 3. Findings

This report covers 660 registered networked drinking-water zones supplying water to 3,787,000 people in the 12-month reporting period of 1 July 2014 to 30 June 2015. Each zone served 101 people or more.

Table 1 summarises achievement against the Standards for the current reporting period. Table 2 compares this achievement with overall results for the previous (1 July 2013 to 30 June 2014) reporting period. These are followed by more detailed comparisons in Tables 3 to 5, which examine bacteriological, protozoal and chemical achievement by water supply size category, and by Table 6, which summarises chemical achievement for individual determinands.

The status of water safety plans is presented in Tables 7 to 9, while Tables 10 to 12 summarise the extent to which water supplies met the legislative requirements of the Act.

Detailed results of drinking-water quality monitoring, Standards' achievement and the meeting of legislative requirements for individual water supplies are shown in Appendices 1 to 4.

### 3.1 Achievement against the Standards

As scheduled in the Act, water suppliers could elect to use the 2000 Standards instead of the 2005 Standards (Revised 2008) only until 31 December 2014. Because this date is mid-way through the reporting period, it was necessary in some instances for achievement to be assessed for six months against each Standard. The mixed Standards option was used by suppliers for 58 zones, providing water to 75,000 people in two medium, 27 minor and 29 small zones. No suppliers continued to use the 2000 Standards for the full period, compared with 158 zones serving 168,000 people in the 2013-2014 survey year.

Microbiological achievement is based on two main microbiological reference organisms, *Escherichia coli* and *Cryptosporidium*. Bacteriological achievement is determined primarily using *Escherichia coli* monitoring, whereas protozoal achievement is based on monitoring the effectiveness of the treatment processes used to remove or inactivate *Cryptosporidium*.

Chemical achievement was assessed for those supplies that have been identified as containing chemicals that require monitoring (known as Priority 2 (P2) determinands<sup>3</sup>). A water supply is assessed as achieving if it has no P2 determinands, or if it has been adequately monitored and any P2 chemicals present are shown to be within acceptable levels.

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<sup>3</sup> Chemical substances or determinands that are present in the water leaving the treatment plant or in the distribution zone at potentially health-significant concentrations (usually greater than 50 percent of their maximum acceptable value) are the only chemical determinands that must be monitored to meet the Standards. These chemicals are known as Priority 2 (P2) determinands. Where a supply has no P2 assignment, because the supply has not been assessed for that chemical, the safety of the supply with respect to chemical determinands is uncertain. The relative softness of New Zealand's water sources results in a general tendency for its drinking-waters to dissolve metals from plumbing fittings, a property termed plumbosolvency. All drinking-waters are designated as plumbosolvent unless the water supplier can show they are not. Metals arising from plumbosolvency do not have to be monitored, provided the public is advised to flush their taps before drawing water for consumption.

**Table 1: Achievement against the Standards from 1 July 2014 to 30 June 2015**

Percentages are for population served.

**1a Achievement for All Supplies**

3,787,000 people in 660 zones.

	Population	Percentage	Zones
Bacteriological achievement	3,666,000	96.8%	538
Protozoal achievement	3,030,000	80.0%	268
Chemical achievement	3,737,000	98.7%	637
Overall achievement	3,008,000	79.4%	249

**1b Achievement in Large Zones**

2,940,000 people in 73 zones, each with over 10,000 people. Serves 78% of the report population.

	Population	Percentage	Zones
Bacteriological achievement	2,914,000	99.1%	71
Protozoal achievement	2,599,000	88.4%	61
Chemical achievement	2,940,000	100%	73
Overall achievement	2,599,000	88.4%	61

**1c Achievement in Medium Zones**

274,000 people in 37 zones, each with 5001 to 10,000 people. Serves 7% of the report population.

	Population	Percentage	Zones
Bacteriological achievement	254,000	92.4%	34
Protozoal achievement	173,000	63.1%	23
Chemical achievement	261,000	95.1%	35
Overall achievement	165,000	60.2%	22

**1d Achievement in Minor Zones**

494,000 people in 253 zones, each with 501 to 5000 people. Serves 13% of the report population.

	Population	Percentage	Zones
Bacteriological achievement	440,000	89.1%	223
Protozoal achievement	238,000	48.2%	113
Chemical achievement	457,000	92.6%	234
Overall achievement	228,000	46.1%	109

**1e Achievement in Small Zones**

78,800 people in 297 zones, each with 101 to 500 people. Serves 2% of the report population.

	Population	Percentage	Zones
Bacteriological achievement	58,800	74.5%	210
Protozoal achievement	19,720	25.0%	71
Chemical achievement	78,000	99.0%	295
Overall achievement	16,600	21.0%	57

Population figures are rounded to the nearest thousand (nearest hundred for small supplies).

## 3.2 Compliance with the Act

The following four sections consider compliance with the Act for drinking-water supplies, during the reporting period of 1 July 2014 to 30 June 2015, according to the population size of the zones: large (more than 10,000 people), medium (5001–10,000), minor (501–5000) and small (101–500).

### 3.2.1 Large water supplies (more than 10,000 people)

In New Zealand, large water supplies provided drinking-water to 2,940,000 people in 73 large distribution zones during the reporting period of 1 July 2014 to 30 June 2015. This is 78 percent of the people covered by this report.

#### a. Meeting the drinking-water Standards

From 1 July 2012, large drinking-water suppliers must take all practicable steps to comply with the Standards.

**Attainment:** For people receiving water from large supplies:

- 88.4% received water fully meeting the Standards (2,599,000 people in 61 zones)
- 99.1% received water meeting the bacteriological Standards (2,914,000 people in 71 zones)
- 88.4% received water meeting the protozoal Standards (2,599,000 people in 61 zones)
- 100% received water meeting the chemical Standards.

#### b. Monitoring requirements in the Standards

From 1 July 2012, large drinking-water suppliers must meet the monitoring requirements in the Standards.

**Attainment:** For people receiving water from large supplies:

- 99.6% received water that fully met monitoring requirements (2,927,000 people in 72 zones)
- 99.6% received water with adequate *Escherichia coli* monitoring (2,927,000 people in 72 zones)
- 100% received water with adequate chemical monitoring.

#### c. Water safety plans

From 1 July 2012, large drinking-water suppliers must provide water safety plans for their water supplies. Each plan must be submitted to a drinking-water assessor for approval before 1 July 2013 and the supplier must have begun to implement the plan within one month of it being approved.

**Attainment:** For people receiving water from large supplies:

- 100% received water which met legislative requirements by having a water safety plan where implementation had commenced.

#### d. Provision of drinking water

From 1 July 2012, large drinking-water suppliers must take all practicable steps to ensure an adequate supply of drinking-water is provided to each point of supply. Interruptions may occur for planned maintenance, improvements or for emergency repairs. However, if the interruptions are likely to exceed eight hours, the water supplier needs to have prior approval from the medical officer of health and to have taken all practicable steps to warn affected people. If the supply is interrupted in an emergency, the supplier has up to 24 hours to inform the medical officer of health.

**Attainment:** For people receiving water from large supplies:

- 93.7% received an adequate supply of water with appropriate notification of any interruptions (2,755,000 people in 72 zones).

#### **e. Source protection**

From 1 July 2012, large drinking-water suppliers must take reasonable steps to protect their water sources from contamination and pollution. These steps may include making submissions on district plans, resource consent applications or sanitary service assessments. Source protection may also include contributing to catchment management.

**Attainment:** For people receiving water from large supplies:

- 100% received water with appropriate source protection activities undertaken.

#### **f. Records**

From 1 July 2008, large drinking-water suppliers must keep records of their water supplies to enable a drinking-water assessor to ascertain whether the water supplier is meeting the requirements of the Act.

**Attainment:** For people receiving water from large supplies:

- 100% received water with adequate records kept.

#### **g. Complaints**

From 1 July 2008, large drinking-water suppliers must record and investigate complaints about their water supplies.

**Attainment:** For people receiving water from large supplies:

- 100% received water with all complaints recorded and investigated.

#### **h. Remedial action**

From 1 July 2008, large drinking-water suppliers must take remedial action if their water supply does not meet the Standards.

**Attainment:** For people receiving water from large supplies:

- 99.5% received water with adequate remedial action taken (2,927,000 people in 72 zones).

### 3.2.2 Medium water supplies (5001 to 10,000 people)

In New Zealand, medium water supplies provided drinking-water to 274,000 people in 37 medium distribution zones during the reporting period of 1 July 2014 to 30 June 2015. This is seven percent of the people covered by this report.

#### a. Meeting the drinking-water Standards

From 1 July 2013, medium drinking-water suppliers must take all practicable steps to comply with the Standards.

**Attainment:** For people receiving water from medium supplies:

- 60.2% received water fully meeting the Standards (165,000 people in 22 zones)
- 92.4% received water meeting the bacteriological Standards (254,000 people in 34 zones)
- 63.1% received water meeting the protozoal Standards (173,000 people in 23 zones)
- 95.1% received water meeting the chemical Standards (261,000 people in 35 zones).

#### b. Monitoring requirements in the Standards

From 1 July 2013, medium drinking-water suppliers must meet the monitoring requirements in the Standards.

**Attainment:** For people receiving water from medium supplies:

- 94.3% received water that fully met monitoring requirements (259,000 people in 35 zones)
- 97.1% received water with adequate *Escherichia coli* monitoring (266,000 people in 36 zones)
- 97.2% received water with adequate chemical monitoring (267,000 people in 36 zones).

#### c. Water safety plans

From 1 July 2013, medium drinking-water suppliers must provide water safety plans for their water supplies. Each plan must be submitted to a drinking-water assessor for approval before 1 July 2014 and the supplier must have begun to implement the plan within one month of it being approved.

**Attainment:** For people receiving water from medium supplies:

- 100% received water where the plan was at least being drafted
- 2.4% received water with plans being drafted (6600 people in one zone)
- 4.8% received water with plans submitted or being redrafted (13,000 people in two zones)
- 2.8% received water with plans that were approved, but not yet being implemented (7700 people in six zones)
- 90.0% received water which met legislative requirements by having a water safety plan where implementation had commenced (247,000 people in 33 zones).

#### d. Provision of drinking water

From 1 July 2013, medium drinking-water suppliers must take all practicable steps to ensure an adequate supply of drinking-water is provided to each point of supply. Interruptions may occur for planned maintenance, improvements or for emergency repairs. However, if the interruptions are likely to exceed eight hours, the water supplier needs to have prior approval from the medical officer of health and to have taken all practicable steps to warn affected people. If the supply is interrupted in an emergency, the supplier has up to 24 hours to inform the medical officer of health.

**Attainment:** For people receiving water from medium supplies:

- 100% received an adequate supply of water with appropriate notification of any interruptions.

### **e. Source protection**

From 1 July 2013, medium drinking-water suppliers must take reasonable steps to protect their water sources from contamination and pollution. These steps may include making submissions on district plans, resource consent applications or sanitary service assessments. Source protection may also include contributing to catchment management.

**Attainment:** For people receiving water from medium supplies:

- 100% received water with appropriate source protection activities undertaken.

### **f. Records**

From 1 July 2008, medium drinking-water suppliers must keep records of their water supplies to enable a drinking-water assessor to ascertain whether the water supplier is meeting the requirements of the Act.

**Attainment:** For people receiving water from medium supplies:

- 100% received water with adequate records kept.

### **g. Complaints**

From 1 July 2008, medium drinking-water suppliers must record and investigate complaints about their water supplies.

**Attainment:** For people receiving water from medium supplies:

- 100% received water with all complaints recorded and investigated.

### **h. Remedial action**

From 1 July 2008, medium drinking-water suppliers must take remedial action if their water supply is not meeting the Standards.

**Attainment:** For people receiving water from medium supplies:

- 97.5% received water with adequate remedial action taken (268,000 people in 36 zones).

### 3.2.3 Minor water supplies (501 to 5000 people)

In New Zealand, minor water supplies provided drinking-water to 494,000 people in 253 minor distribution zones during the reporting period of 1 July 2014 to 30 June 2015. This is 13 percent of the people covered by this report.

#### a. Meeting the drinking-water Standards

From 1 July 2014, minor drinking-water suppliers must take all practicable steps to comply with the Standards.

**Attainment:** For people receiving water from minor supplies:

- 46.1% received water fully meeting the Standards (228,000 people in 109 zones)
- 89.1% received water meeting the bacteriological Standards (440,000 people in 223 zones)
- 48.2% received water meeting the protozoal Standards (238,000 people in 113 zones)
- 92.6% received water meeting the chemical Standards (457,000 people in 234 zones).

#### b. Monitoring requirements in the Standards

From 1 July 2014, minor drinking-water suppliers must meet the monitoring requirements in the Standards.

**Attainment:** For people receiving water from minor supplies:

- 90.8% received water that fully met monitoring requirements (448,000 people in 229 zones)
- 93.2% received water with adequate *Escherichia coli* monitoring (460,000 people in 235 zones)
- 97.0% received water with adequate chemical monitoring (479,000 people in 244 zones).

#### c. Water safety plans

From 1 July 2014, minor drinking-water suppliers must provide water safety plans for their water supplies. Each plan must be submitted to a drinking-water assessor for approval before 1 July 2015 and the supplier must begin to implement the plan within one month of it being approved.

**Attainment:** For people receiving water from minor supplies:

- 1.4% received water with no plan started (7,100 people in 5 zones)
- 7.0% received water with plans being drafted (34,000 people in 16 zones)
- 6.4% received water with plans submitted or being redrafted (32,000 people in 19 zones)
- 9.7% received water with plans that are approved, but not yet being implemented (48,000 people in 30 zones)
- 75.4% received water where plan implementation had commenced (372,000 people in 183 zones)
- 85.2% received water that met the first year legislative requirement for minor zones of having plans that were approved or being implemented (420,000 people in 213 zones).

#### d. Provision of drinking water

From 1 July 2014, minor drinking-water suppliers must take all practicable steps to ensure an adequate supply of drinking-water is provided to each point of supply. Interruptions may occur for planned maintenance, improvements or for emergency repairs. However, if the interruptions are likely to exceed eight hours, the water supplier needs to have prior approval from the medical officer of health and to have taken all practicable steps to warn affected people. If the supply is interrupted in an emergency, the supplier has up to 24 hours to inform the medical officer of health.



**Attainment:** For people receiving water from minor supplies:

- 99.6% received an adequate supply of water with appropriate notification of any interruptions (492,000 people in 252 zones).

#### **e. Source protection**

From 1 July 2014, minor drinking-water suppliers must take reasonable steps to protect their water sources from contamination and pollution. These steps may include making submissions on district plans, resource consent applications or sanitary service assessments. Source protection may also include contributing to catchment management.

**Attainment:** For people receiving water from minor supplies:

- 98.9% received water with appropriate source protection activities undertaken (488,000 people in 251 zones).

#### **f. Records**

From 1 July 2008, minor drinking-water suppliers must keep records of their water supplies to enable a drinking-water assessor to ascertain whether the water supplier is meeting the requirements of the Act.

**Attainment:** For people receiving water from minor supplies:

- 98.9% received water with adequate records kept (488,000 people in 251 zones).

#### **g. Complaints**

From 1 July 2008, minor drinking-water suppliers must record and investigate complaints about their water supplies.

**Attainment:** For people receiving water from minor supplies:

- 99.6% received water with all complaints recorded and investigated (492,000 people in 252 zones).

#### **h. Remedial action**

From 1 July 2008, minor drinking-water suppliers must take remedial action if their water supply is not meeting the Standards.

**Attainment:** For people receiving water from minor supplies:

- 96.4% received water with adequate remedial action taken (476,000 people in 241 zones).

### 3.2.4 Small water supplies (101 to 500 people)

In New Zealand, small water supplies provided drinking-water to 78,800 people in 297 small distribution zones during the reporting period of 1 July 2014 to 30 June 2015. This is two percent of the people covered by this report.

#### a. Meeting the drinking-water Standards

From 1 July 2015, small drinking-water suppliers will need to take all practicable steps to comply with the Standards.

**Attainment:** For people receiving water from small supplies:

- 21.0% received water fully meeting the Standards (16,600 people in 57 zones)
- 74.5% received water meeting the bacteriological Standards (58,800 people in 210 zones)
- 25.0% received water meeting the protozoal Standards (19,700 people in 71 zones)
- 99.0% received water meeting the chemical Standards (78,000 people in 295 zones).

#### b. Monitoring requirements in the Standards

From 1 July 2015, small drinking-water suppliers will need to meet the monitoring requirements in the Standards.

**Attainment:** For people receiving water from small supplies:

- 82.7% received water with adequate *Escherichia coli* monitoring (65,200 people in 236 zones)
- 100% received water with adequate chemical monitoring.

#### c. Water safety plans

Small drinking-water suppliers are exempt from the general duty to prepare and implement a water safety plan, unless required to do so by a medical officer of health. However, they may elect to be a participating small supply under the Standards, in which case a water safety plan must be in the process of being implemented.

**Attainment:** For people receiving water from small supplies:

- 8.6% received water with no plan started (6,700 people in 29 zones)
- 16.6% received water with plans being drafted (13,100 people in 52 zones)
- 10.0% received water with plans submitted or being redrafted (7,900 people in 30 zones)
- 10.0% received water with plans that were approved, but not yet being implemented (7,800 people in 28 zones)
- 49.7% received water where plan implementation had commenced (39,200 people in 143 zones).

For the 3800 people in 15 zones receiving water from participating small supplies, 100 percent received water where plan implementation had commenced.

#### d. Provision of drinking water

From 1 July 2015, small drinking-water suppliers will need to take all practicable steps to ensure an adequate supply of drinking-water is provided to each point of supply. Interruptions may occur for planned maintenance, improvements or for emergency repairs. However, if the interruptions are likely to exceed eight hours, the water supplier needs to have prior approval from the medical officer of health and to have taken all practicable steps to warn affected people. If the supply is interrupted in an emergency, the supplier has up to 24 hours to inform the medical officer of health.

**Attainment:** For people receiving water from small supplies:

- 94.5% received an adequate supply of water with appropriate notification of any interruptions (74,500 people in 280 zones).

#### **e. Source protection**

From 1 July 2015, small drinking-water suppliers will need to take reasonable steps to protect their water sources from contamination and pollution. These steps may include making submissions on district plans, resource consent applications or sanitary service assessments. Source protection may also include contributing to catchment management.

**Attainment:** For people receiving water from small supplies:

- 96.3% received water with appropriate source protection activities undertaken (76,000 people in 283 zones).

#### **f. Records**

Small drinking-water suppliers are not required by the Act to keep records, except if they are required to implement a water safety plan. However, record keeping is required to prove achievement against the Standards.

**Attainment:** For people receiving water from small supplies:

- 96.8% received water with adequate records kept (76,300 people in 285 zones).

#### **g. Complaints**

From 1 July 2008, small drinking-water suppliers must record and investigate complaints about their water supplies.

**Attainment:** For people receiving water from small supplies:

- 97.0% received water with all complaints recorded and investigated (76,500 people in 286 zones).

#### **h. Remedial action**

From 1 July 2008, small drinking-water suppliers must take remedial action if their water supply is not meeting the Standards.

**Attainment:** For people receiving water from small supplies:

- 97.8% received water with adequate remedial action taken (77,100 people in 288 zones).

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## 4. Interpretation and discussion

### 4.1 Introduction

The Act aims to protect public health by ensuring that communities are provided with a safe, wholesome and adequate supply of drinking-water. Using risk management concepts to do this, it promotes proactive measures using water safety plans and appropriate monitoring of drinking-water quality. This monitoring demonstrates the extent to which water quality parameters remain within maximum acceptable values and, by implication, the effectiveness of the water safety plans.

This section discusses bacteriological, protozoal and chemical achievement against the Standards, progress in water safety plan preparation and use, and the public health significance of these findings. The discussion considers achievement in terms of size of supply. The extent to which other requirements of the Act were met during the reporting period (1 July 2014 to 30 June 2015) is also discussed individually, with the size category of supply determining when various aspects of the Act come into force.

In considering the public health significance of maximum acceptable value exceedences reported from monitoring, greater discussion is provided for chemical than microbiological results. This reflects the broader range of chemicals that are monitored, compared with microbiological organisms. Chemicals of concern are measured directly and the quantitative toxicological basis for their maximum acceptable values is usually known. In contrast, microbiological achievement is based on the detection of indicator organisms, combined with assessing barriers to contamination, rather than measuring the concentrations of disease-causing microorganisms (pathogens) in the water.

Following the trend in New Zealand population growth, each Annual Report typically covers a slightly higher supply population than each previous report. For the current reporting period however, the estimated report population of 3,787,000 is 1.1 percent, or 41,000 people, lower than the previous reporting period. This does not arise from a decrease in people within reticulated supplies as a whole, but primarily reflects updated supply population estimates for the Christchurch area using an improved methodology, including a greater emphasis on census data.

All supply populations are reassessed from time to time by each supplier. For this reporting period, an adjustment that decreased the Christchurch population figures, combined with minimal changes for the other main centres, lead to a decrease in the estimate of supply population for the nation as a whole.

## 4.2 Overall achievement against the Standards

Overall achievement against the Standards requires a water supply to meet the requirements for bacteriological, protozoal and chemical achievement. During the current reporting period (1 July 2014 to 30 June 2015), 79.4 percent of the population in registered networked drinking-water supplies serving more than 100 people received drinking-water from fully achieving water supplies. This is a 0.4 percentage point improvement on the previous reporting period (1 July 2013 to 30 June 2014), when 79.0 percent received water from fully achieving water supplies.

Table 2 shows the proportions of the population that received drinking-water from fully achieving supplies during the current and previous reporting periods.

**Table 2: Achievement against the Standards between reporting years**

Percentages are for population served.

Reporting Year:	2014–2015	2013–2014	Change*
Report population	3,787,000	3,829,000	
Bacteriological achievement	96.8%	97.2%	-0.4%
Protozoal achievement	80.0%	80.8%	-0.8%
Chemical achievement	98.7%	97.4%	+1.3%
Overall achievement	79.4%	79.0%	+0.5%**

Percentages are rounded to one decimal place and populations rounded to the nearest thousand.

\* A positive change represents an improvement in achievement.

\*\* Values are calculated using full-precision data rather than rounded figures from adjacent columns.

Overall, in terms of supply population, chemical achievement was highest, followed by bacteriological and then protozoal achievement.

Compared with the previous reporting period, bacteriological achievement decreased by 0.4 percentage points, protozoal achievement decreased by 0.8 percentage points and chemical achievement increased by 1.3 percentage points. Expressed in terms of current report population, bacteriological achievement has decreased by 16,000 people and protozoal achievement has decreased by 30,000 people, while chemical achievement has improved by 49,000 people.

The Standards lay out how to assess the quality of drinking-water and specify the water quality standards that all drinking-water supplies must achieve. It is possible to fail to meet the Standards due to technical failures<sup>4</sup> such as inadequate sampling<sup>5</sup>, or because of failures that are a direct public health concern<sup>6</sup>, such as exceeding the maximum acceptable value of a determinand such as *Escherichia coli*.

Exceedence of a microbiological maximum acceptable value is generally of greater concern than the exceedence of a chemical maximum acceptable value, because of the timescales over which their adverse effects are likely to be experienced. Pathogens can cause illness rapidly, following a single contamination event, while most chemicals of concern, unless present at extraordinarily high concentrations, will have adverse effects only after longer-term exposure. For these reasons, immediate remedial action is normally more important in response to microbiological than chemical exceedences.

<sup>4</sup> Failure to achieve for protozoal requirements can only be due to a technical failure, as routine measurement of protozoa in treated water is currently impracticable.

<sup>5</sup> Inadequate number of samples, sampled on too few days of the week and/or sampling exceeded the maximum number of days between samples.

<sup>6</sup> Reasons for bacteriological failure of direct public health concern include an excessive number of transgressions, inadequate corrective action following a transgression of the maximum acceptable value and/or no monitoring.

## 4.3 Bacteriological achievement against the Standards

During the reporting period (1 July 2014 to 30 June 2015), 96.8 percent (3,666,000 people) of the report population were supplied with drinking-water that met the bacteriological requirements of the Standards (Table 1). Percentage achievement increased with the size of the population served by a supply. Bacteriological achievement was achieved for 99.1 percent of people in large zones, 92.4 percent in medium zones, 89.1 percent in minor zones and 74.5 percent in small zones. This may reflect the increasing per capita cost of effective bacteriological treatment as supply population size decreases, or the progressive introduction of the requirements of the Act by supply size.

The net 0.4 percentage point decrease in bacteriological achievement arose from overlapping contributions from several factors. In terms of the report population, there was:

- a 0.2 percentage point decrease in people receiving water with an excessive number of transgressions
- but a 0.6 percentage point increase in remedial action following a transgression being ineffective, delayed or unknown
- and a 0.2 percentage point decrease in people receiving water from adequately monitored supplies.

The first reason for non-achievement, 'excessive transgressions', potentially puts public health at risk, as does the lack of immediate and appropriate remedial action.

In comparing reporting periods, the percentage of people receiving water with inadequate remedial action following a bacteriological transgression has risen from 0.1 to 0.6 percent (rounded to one decimal place).

The third reason, a decrease in adequate monitoring, indicates that less sampling is being carried out than is required in accordance with the Standards. This is a technical rather than public health measure, and is separate from a consideration of supplies with excessive bacteriological transgressions or inadequate remedial action.

As in the previous period, all supplies used Ministry of Health recognised laboratories for *Escherichia coli* monitoring.

**Table 3: Bacteriological achievement against the Standards between reporting years**

Percentages are for population served.

Reporting Year:	2014–2015	2013–2014	Change*
Large supplies	99.1%	99.2%	-0.1%
Medium supplies	92.4%	98.0%	-5.6%
Minor supplies	89.1%	88.8%	+0.3%
Small supplies	74.5%	71.8%	+2.7%
All supplies	96.8%	97.2%	-0.4%

Percentages are rounded to one decimal place.

\* A positive change represents an improvement in achievement.

Supply zone size: Large: Over 10,000      Medium: 5001–10,000      Minor: 501–5000      Small: 101–500

Table 3 shows that bacteriological achievement has improved in minor (0.3 percentage points of population served) and small (2.7 percentage points) zones, but not in large (-0.1 percentage points) or medium zones (-5.6 percentage points).

Approximately 3.2 percent (121,000 people) of the report population were supplied with drinking-water that failed to achieve the bacteriological requirements of the Standards<sup>7</sup>. The causes of non-achievement and the number of people affected were:

- 1.3 percent (49,000 people) of the report population were served by supplies with excessive numbers of *Escherichia coli* transgressions
- 1.5 percent (57,000 people) of the report population were served by supplies in which *Escherichia coli* was inadequately monitored
- 0.3 percent (11,000 people) of the report population were served by supplies in which *Escherichia coli* monitoring was not carried out
- 0.6 percent (23,000 people) of the report population were served by supplies in which transgressions occurred that were not followed up by immediate remedial action.

Compared with the previous reporting period (1 July 2013 to 30 June 2014), the changes in affected populations in this list are mixed. Expressed in terms of current report population supplied, 9100 more people were served by supplies where *Escherichia coli* was inadequately monitored; 7800 fewer people received water with excessive numbers of *Escherichia coli* transgressions; and 21,000 more people received water for which appropriate remedial action was delayed or unknown. The net result, combined with other minor factors, means that 16,000 more people received water in this period that did not achieve the bacteriological requirements of the Standards than if achievement rates had remained unchanged from the previous reporting period.

#### **4.3.1 Public health significance of exceedences**

The presence of *Escherichia coli* in water indicates that the water has been contaminated with faeces. This may be the result of the raw water being contaminated and the water being inadequately treated, or it may result from contamination of the water, after treatment, during distribution to the community. In either case, although *Escherichia coli* itself may or may not present a threat to public health, its presence means that pathogens also present in the faeces could be present in the water. Although the concentrations of these pathogenic organisms are not monitored, their possible presence must be assumed and consequently the detection of *Escherichia coli* in the water must be regarded as a serious risk to public health.

As well as indicating a risk to public health, the detection of *Escherichia coli* shows that there has been a failure in the barriers between contaminants and the community. Consequently, all *Escherichia coli* transgressions must be immediately investigated and corrective action implemented. Depending on the result of the investigation, modification of the supply's water safety plan may also be needed.

During the reporting period (1 July 2014 to 30 June 2015), 0.6 percent of the report population (23,000 people) were served by one large, one medium, two minor and nine small supply zones in which *Escherichia coli* transgressions occurred that were not appropriately followed up by immediate remedial action.

The failure to take appropriate remedial action immediately following *Escherichia coli* transgressions is a serious cause of concern because of the public health consequences that could follow if the failure coincided with raised pathogen concentrations in the source water. Failure to reduce this risk by increased disinfection, or by taking appropriate steps to reduce exposure to the hazard (such as closing or changing a water source, or recommending that people boil all drinking-water), increases the likelihood of waterborne disease. Inadequate

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<sup>7</sup> Some people supplied with water that failed bacteriologically against the Standards fell into more than one of the non-achieving categories.

remedial action indicates that the water supplier has either failed to recognise this issue or to accept that it poses a potentially serious health risk.

It is unusual for a supply to fail the bacteriological Standards solely because it has failed to take appropriate remedial action, since in most cases an excessive number of transgressions is the primary reason for failing. The single large supply that failed to meet remedial action requirements in this period did not have excessive transgressions. It failed the bacteriological Standards because it did not take immediate remedial action following a single *Escherichia coli* transgression. Procedures at this supply are being revised to ensure that such situations do not reoccur.



## 4.4 Protozoal achievement against the Standards

During the reporting period (1 July 2014 to 30 June 2015), 80.0 percent (3,029,000 people) of the report population were supplied with drinking-water that met the protozoal requirements of the Standards (Table 1). There is a clear trend of protozoal achievement against the Standards improving as supply population size increases: protozoal achievement on a population basis was achieved for 88.4 percent of people in large zones, 63.1 percent in medium zones, 48.2 percent in minor zones and 25.0 percent in small zones.

Protozoal achievement between reporting years is summarised in Table 4. Compared with the previous reporting period (1 July 2013 to 30 June 2014), protozoal achievement has improved in medium (5.8 percentage points of population served), minor (0.5 percentage points) and small (1.5 percentage points) zones, but not in large zones (-1.3 percentage points).

Twelve large supplies failed protozoal achievement, compared with eleven in the previous period. Ten of the 12 non-achieving supplies also failed for the previous period, while a single large zone, serving 13,000 people, previously failed, but has now achieved for protozoa. Two large zones, serving 43,000 people, failed only in this period.

The 5.8 percentage point improvement for medium supplies included two zones achieving this year while failing in the previous period. All 14 zones that failed protozoal achievement for the current period also failed previously.

All protozoal failures to achieve arose from technical failures in providing or monitoring appropriate plant processes, since protozoa are not monitored directly.

**Table 4: Protozoal achievement against the Standards between reporting years**

Percentages are for population served.

Reporting Year:	2014–2015	2013–2014	Change*
Large supplies	88.4%	89.7%	-1.3%
Medium supplies	63.1%	57.4%	+5.8%**
Minor supplies	48.2%	47.7%	+0.5%
Small supplies	25.0%	23.5%	+1.5%
All supplies	80.0%	80.8%	-0.8%

Percentages are rounded to one decimal place.

\* A positive change represents an improvement in achievement.

\*\* Values are calculated using full-precision data rather than rounded figures from adjacent columns. .

Supply zone size: Large: Over 10,000      Medium: 5001–10,000      Minor: 501–5000      Small: 101–500

Protozoal non-achievement does not necessarily mean that pathogenic protozoa (*Giardia* spp. and *Cryptosporidium* spp.) were present in the water. Water suppliers are not required to monitor the water for pathogenic protozoa. Instead, protozoal achievement is based on the likelihood that the treatment processes in operation will adequately protect the community if pathogenic protozoa are present in the source. To achieve this, the water supplier must do two things. Firstly, they must use secure groundwater or have treatment processes in operation that the Standards state can remove or inactivate an adequate percentage of any protozoa present in the raw water. Secondly, the water supplier must be able to show that they are operating the treatment processes sufficiently well to meet the target percentage removal.

The trend of decreasing protozoal achievement against decreasing supply size is possibly a reflection of the high cost of effective protozoal treatment, which is less able to be borne by smaller communities. It is also possible that the operators of treatment plants supplying smaller communities do not have the same level of expertise as those operating larger systems.

## 4.5 Chemical achievement against the Standards

During the reporting period (1 July 2014 to 30 June 2015), 98.7 percent (3,737,000 people) of the report population were supplied with drinking-water that met the chemical requirements of the Standards (Table 1), while 1.3 percent (51,000 people) received water that did not achieve the Standards.

Chemical determinands are not regularly monitored in all supplies, but are assigned to specific supplies where treatment or water characteristics indicate levels may approach health limits.

Chemical achievement between reporting years is summarised in Table 5. Compared with the previous reporting period (1 July 2013 to 30 June 2014), all supply sizes improved their chemical achievement. The overall improvement was by 1.3 percentage points, representing 50,000 people.

**Table 5: Chemical achievement against the Standards between reporting years**

Percentages are for population served.

Reporting Year:	2014–2015	2013–2014	Change*
Large supplies	100%	99.1%	+0.9%
Medium supplies	95.1%	87.9%	+7.2%
Minor supplies	92.6%	91.6%	+0.9%**
Small supplies	99.0%	97.2%	+1.7%**
All supplies	98.7%	97.4%	+1.3%

Percentages are rounded to one decimal place.

\* A positive change represents an improvement in achievement.

\*\* Values are calculated using full-precision data rather than rounded figures from adjacent columns. .

Supply zone size: Large: Over 10,000      Medium: 5001–10,000      Minor: 501–5000      Small: 101–500

Note that the high level of chemical achievement for small supplies arises by default because Priority 2 determinands are usually assigned only to zones with populations exceeding 500.

Table 6 offers a more detailed summary of chemical achievement, listing all determinands assigned. A zone may fail the chemical requirements because of transgressions, from inadequate monitoring, or from both.

During the reporting period, 173 distribution zones supplying 66.3 percent (2,512,000 people) of the report population were assigned one or more chemical determinands. The chemical requirements of the Standards were achieved for water supplied to 98.0 percent (2,461,000) of these people and not achieved for 2.0 percent (51,000 people).

Fluoride was the most commonly assigned chemical, in terms of population served. It was assigned to supplies for 2,271,000 people, with a 99.4 percent achievement of the chemical requirements of the Standards. The next most commonly assigned chemical determinand was trihalomethanes, assigned to supplies for 89,000 people (86.0 percent achievement), and haloacetic acids for 80,000 people (83.1 percent achievement). Lead was assigned to supplies for 77,000 people, with a 97.3 percent chemical achievement.

**Table 6: Achievement for individual chemicals from 1 July 2014 to 30 June 2015**

Percentages are for population served by zones with the chemical assigned.

Chemical	Population Assigned	Population Achieved	Percent Achieved	Zones Assigned	Zones Achieved
Antimony	1000	1000	100%	1	1
Arsenic	34,000	25,000	73.4%	11	4
Bromodichloromethane	11,000	11,000	100%	3	3
Cadmium	400	400	100%	1	1
Copper	4100	3000	72.5%	4	3
Dichloroacetic acid	10,000	4800	45.9%	7	3
Fluoride (fluoridated)	2,271,000	2,257,000	99.4%	115	112
Haloacetic acids	80,000	67,000	83.1%	15	7
Lead	77,000	75,000	97.3%	13	11
Manganese	1100	1100	100%	2	2
Nickel	7900	6900	88.0%	2	1
Nitrate	46,000	46,000	100%	11	11
Nitrate and nitrite	3300	3300	100%	1	1
Trichloroacetic acid	6900	4800	69.4%	6	3
Trihalomethanes	89,000	77,000	86.0%	16	13
All chemicals <sup>#</sup>	2,512,000	2,461,000	98.0%	173	150

Percentages are rounded to one decimal place.

All values are calculated using full-precision data rather than rounded figures from adjacent columns.

# Some zones, with their contributing plants, will have multiple chemicals assigned, so the 'all chemical' row figures may not equal the sum of rows above.

### 4.5.1 Fluoride

Fluoride was added to the drinking-water received by 60.0 percent of the report population (2,271,000 people) in 115 zones.

For fluoridated supplies, 112 zones (2,257,000 people) received water that achieved the chemical requirements of the Standards for fluoride, while three zones (14,000 people) failed.

Of the three zones that failed, one (7700 people) failed because of inadequate monitoring. The correct number of samples was taken during the year, but the sampling was not distributed correctly throughout the reporting period. Overall, this minor level of inadequate monitoring represents a marked improvement in fluoride monitoring compared with the previous reporting period, when eight zones, supplying 52,000 people failed to monitor adequately.

The other two zones (5700 and 500 people) that failed were supplied by the same treatment plant, and consequently failed for the same reasons. The fluoride concentration in one of the 57 samples taken from the treatment plant during the year exceeded the maximum acceptable value. The maximum recorded concentration was 2.30 mg/L, a level 53 percent greater than the maximum acceptable value, but the water supplier took satisfactory remedial action as soon as they discovered the transgression.

The number of people living in zones in which there had been an excessive number of fluoride transgressions during the reporting period was 5400 greater than in the previous reporting period.

It is cost-effective to fluoridate zones serving more than 1000 people (Wright et al 1999<sup>8</sup>), and 3,644,000 of the report population are in this size grouping. Of these people, 62 percent, or 2,260,000 people, received water with added fluoride during the reporting period. These people are in 93 zones, which is 34 percent of the 276 zones in that size grouping. For the other 22 fluoridated zones of 1000 or fewer people, 20 zones received their water from a treatment plant serving more than 1000 people in multiple zones.

## **4.5.2 Other chemical determinands**

### **a. Maximum acceptable value exceedences**

Drinking-water supplies to 26,000 people (13 zones) exceeded the maximum acceptable values for at least one chemical determinand, other than fluoride, during the report period (1 July 2014 to 30 June 2015). All except three zones were in separate supplies. All zones with exceedences were located in the North Island. The chemical determinands for which the maximum acceptable values were exceeded were: arsenic, dichloroacetic acid, haloacetic acids, trihalomethanes and trichloroacetic acid. All except one of the seven zones with arsenic exceedences were located near Lake Taupo or in the Bay of Plenty. The exception was in an area of the North Island with arsenic-containing minerals.

### **b. Frequency and extent of maximum acceptable value exceedences**

The frequencies at which maximum acceptable values were exceeded in monitoring samples ranged from seldom (1 in 12 samples) to five zones in which arsenic exceeded its maximum acceptable value in all samples taken. The median frequency of exceedences for all non-fluoride determinands was 17 percent of samples. The highest chemical concentrations reported ranged from concentrations that exceeded the maximum acceptable value by approximately 2 percent to concentrations slightly more than five times the maximum acceptable value. The majority of exceedences were less than twice the maximum acceptable value.

### **c. Public health significance of exceedences**

Chemicals exceeding their maximum acceptable values are either disinfection by-products (trihalomethanes or haloacetic acids) or arsenic.

Members of the disinfection by-product families are possible human carcinogens. Like most carcinogens, their maximum acceptable value is set at a level of risk of 1 in 100,000. While absent in the source water, they can occur as by-products from the chlorination process. Despite their possible carcinogenicity, the World Health Organization<sup>9</sup> advises that it is of 'paramount importance' that the efficacy of disinfection is not compromised in trying to minimise their formation.

Trihalomethanes or haloacetic acids exceeded their maximum acceptable values in six zones serving 17,000 people. Frequencies of exceedence ranged from eight to 25 percent of monitoring samples. Maximum acceptable values were exceeded by no more than 30 percent in five of the six zones, but in one zone (700 people) the concentrations of haloacetic acids were reported to be 5.1 times the maximum acceptable value. The haloacetic acids exceeded their maximum acceptable value in three of 12 monitoring samples from this zone. No exceedences were reported from this zone in the previous reporting period. Increased levels of natural organic matter in the source water following rain can increase the levels of disinfection by-products

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<sup>8</sup> Wright JC, Bates MN, Cutress T, Lee M. 1999. *The Cost-effectiveness of Fluoridating Water Supplies in New Zealand*. ESR Report for the Ministry of Health. Wellington: Ministry of Health.

<sup>9</sup> World Health Organization. 2011. *Guidelines for Drinking-water Quality*. 4<sup>th</sup> edition. Geneva: WHO Press.

formed. Differences in the frequency and severity of rain events between this and the previous reporting period may explain the increase in transgressions reported for this zone.

The maximum acceptable value for arsenic was exceeded in seven zones (9000 people). The frequencies of exceedence reported for arsenic ranged from low (14 percent of samples) to high (100 percent of samples). In six of these zones, the maximum acceptable value was exceeded in at least 75 percent of samples. Three zones (all in the same supply) reported arsenic concentrations in excess of twice the maximum acceptable value. Exceedences of the maximum acceptable value for arsenic are of greater public health significance than the exceedences by other carcinogenic chemicals. The level of acceptable risk used to set the maximum acceptable value for most carcinogens is 1 in 100,000. For arsenic however, the maximum acceptable value of 0.01 mg/L cannot be lowered, because of analytical and treatment limitations. The World Health Organisation has previously advised this equates to a level of risk of 1 in 1700 (the Standards).

### **4.5.3 Chemical monitoring and remedial action**

Population and zone figures in this section refer to all Priority 2 determinands in the report.

#### **a. Monitoring**

Unsatisfactory monitoring remains a major reason for non-achievement against the chemical requirements of the Standards. Of 23 zones (51,000 people) that were non-achieving, 10 zones (22,000 people) were inadequately monitored. Without monitoring information, the water supplier cannot make well-informed decisions about the actions to take to meet the Standards, and the health significance of chemicals assigned to a distribution zone cannot be readily assessed.

#### **b. Remedial action**

In 10 zones (17,000 people) the remedial action taken during the reporting period, in response to transgressions of the Standards for chemical determinands, was unsatisfactory. The presence of arsenic in source waters presents a substantial difficulty for those zones with arsenic transgressions. The upgrading of treatment may be expensive, and a suitable alternative source may be unavailable. The possibility of a new source is being investigated in one zone with arsenic. No remedial actions were recorded for zones with disinfection by-product transgressions.

The urgency for remedial action to address exceedences of chemical maximum acceptable values is usually not as great as it is for microbiological exceedences. Maximum acceptable values are calculated to provide satisfactory protection against adverse health effects for a lifetime (70 years) of drinking-water consumption. Consequently, relatively short periods of exceedence are not usually expected to adversely affect health.

While remedial action for a chemical exceedence may not be urgent, under section 69ZF of the Act water suppliers still have to take all practicable steps to ensure that the water supplied achieves the quality required by the Standards. Removal of a chemical determinand from water may present a substantial technical challenge, requiring an additional, possibly expensive, treatment process. Under these circumstances and with regard to the risk, a water supplier may be able to show that remedial action is impracticable for financial reasons, as there are provisions for such circumstances under section 69H of the Act.

## 4.6 Status of water safety plans

Monitoring water quality alone is not a satisfactory approach to water supply management. In most instances, test results will arrive too late to prevent contaminated water reaching a community. The Act requires water suppliers to move beyond reliance on monitoring only. Water safety plans are fundamental to the water supplier being able to produce safe water and having confidence that the water is safe at times when monitoring samples are not available to confirm its quality.

Preparing a water safety plan requires a water supplier to review the whole of their water supply from the raw water (and possible contaminant sources), through the treatment processes, to the pipe network that carries the water out into the community. During this review, possible causes of contamination are identified and measures put in place to reduce the likelihood of contamination events happening. The plan also states what remedial action needs to be taken should a contamination event occur, despite the preventive measures.

Table 7 shows progress towards implementing water safety plans for the categories of supply covered by this report. The term 'redrafting' in this table may apply to any one of: editing of the initial plan before approval; adjustments to the plan to match changed treatment processes; or to a plan being reviewed after five years of implementation.

Overall, zones serving 95.0 percent of the report population (65 percent of zones) have begun to implement their water safety plans. Drinking-water supplies serving a further 4.5 percent of the population (27 percent of zones) had plans either approved or in preparation.

The rate of development and implementation of the plans decreased with reducing zone population size. For example, suppliers for 13.7 percent of people served by small zones had not started preparing their water safety plans. Small drinking water suppliers are not subject to the duty to prepare and implement a water safety plan unless required to by a medical officer of health under section 69ZA of the Act. Small water suppliers have the option to prepare a plan using Section 10 of the Standards 2005 (revised 2008).

**Table 7: Water safety plans: all supplies status, 2014–2015**

Percentages are for population served.  
3,787,000 people in 660 zones.

	Population	Percentage	Zones
Plan not started	18,000	0.5%	49
Plan being drafted	54,000	1.4%	69
Plan submitted or redrafting	53,000	1.4%	51
Plan approved	64,000	1.7%	59
Plan being implemented	3,599,000	95.0%	432
Meets legislation*	3,647,000	96.3%	462

Population figures are rounded to the nearest thousand.

\* Plans must be being implemented, unless, as for minor supplies, this is their first plan year under the legislation. In that situation, an approved plan is acceptable for this period. Most small supplies do not need to have a plan.

Large, medium and minor supplies are further considered, because the legislation requires their water safety plans to be approved or being implemented within the current reporting period.

Large supplies were required to have their plans approved before 1 July 2013, with implementation to have commenced within a month of approval. All 73 large zones met this requirement.

Medium supplies were required to have their plans approved before 1 July 2014, with implementation to have commenced within a month of approval. Plans for 33 of the 37 medium zones are being implemented, one zone is approved, two are being redrafted and one is being drafted. The four zones not yet being implemented represent 27,000 people.

Minor supplies are required to have their plans approved before 1 July 2015, with implementation to commence within a month of approval. Plans for 213 of the 253 minor zones meet this requirement, with 183 plans already being implemented. Of the 40 minor zones not meeting requirements, representing 73,000 people, 19 have been submitted or are being redrafted, 16 are being drafted and five have not been started.

**Table 8: Supplies with water safety plan legislative requirements**

**8a Water safety plans: large supplies status, 2014–2015**

Percentages are for population served.

2,940,000 people in 73 zones, each with over 10,000 people. Serves 78% of the report population.

	Population	Percentage	Zones
Plan not started	0	0%	0
Plan being drafted	0	0%	0
Plan submitted or redrafting	0	0%	0
Plan approved	0	0%	0
Plan being implemented	2,940,000	100%	73
Meets legislation*	2,940,000	100%	73

Population figures are rounded to the nearest thousand.

\* Large supplies must have plans being implemented.

**8b Water safety plans: medium supplies status, 2014–2015**

Percentages are for population served.

274,000 people in 37 zones, each with 5001 to 10,000 people. Serves 7% of the report population.

	Population	Percentage	Zones
Plan not started	0	0%	0
Plan being drafted	6600	2.4%	1
Plan submitted or redrafting	13,000	4.8%	2
Plan approved	7700	2.8%	1
Plan being implemented	247,000	90.0%	33
Meets legislation*	247,000	90.0%	33

Population figures are rounded to the nearest thousand.

\* Medium supplies must be approved or being implemented.

### 8c Water safety plans: minor supplies status, 2014–2015

Percentages are for population served.

494,000 people in 253 zones, each with 501 to 5000 people. Serves 13% of the report population.

	Population	Percentage	Zones
Plan not started	7100	1.4%	5
Plan being drafted	34,000	7.0%	16
Plan submitted or redrafting	32,000	6.4%	19
Plan approved	48,000	9.7%	30
Plan being implemented	372,000	75.4%	183
Meets legislation*	420,000	85.2%	213

Population figures are rounded to the nearest thousand.

\* Medium supplies must be approved or being implemented.

The following table shows that the population receiving drinking-water with water safety plans being implemented has improved by 4.4 percentage points between reporting periods.

All large supplies have had their plans being implemented for two years, while the population receiving water with plans being implemented has increased by between 16.4 and 23.0 percentage points for the other size bands.

**Table 9: Water safety plans: status between reporting years**

Percentages are for reported population served.

Stages referred to are: not started, drafting, submitted, redrafting, approved and being implemented.

Reporting Year	Population	2014–2015 Percent	2013–2014 Percent	Change*
<b>Drafting or better</b>				
Large supplies	2,940,000	100%	100%	0%
Medium supplies	274,000	100%	100%	0%
Minor supplies	486,000	98.5%	95.7%	+2.9%**
Small supplies	68,000	86.3%	79.2%	+7.1%
All supplies	3,769,000	99.5%	99.0%	+0.5%
<b>Approved or being implemented</b>				
Large supplies	2,940,000	100%	100%	0%
Medium supplies	255,000	92.8%	85.6%	+7.2%
Minor supplies	420,000	85.2%	73.5%	+11.7%
Small supplies	47,000	59.6%	50.0%	+9.6%
All supplies	3,663,000	96.7%	94.6%	+2.1%
<b>Being implemented</b>				
Large supplies	2,940,000	100%	100%	+0%
Medium supplies	247,000	90.0%	70.6%	+19.4%
Minor supplies	372,000	75.4%	52.4%	+23.0%
Small supplies	39,200	49.7%	33.2%	+16.4%**
All supplies	3,599,000	95.0%	90.6%	+4.4%

Percentages are rounded to one decimal place.

Population figures are rounded to the nearest thousand (nearest hundred for small supplies).

\* A positive change represents an improvement in WSP status.

\*\* Values are calculated using full-precision data rather than rounded figures from adjacent columns.

Supply zone size: Large: Over 10,000    Medium: 5001–10,000    Minor: 501–5000    Small: 101–500.



## 4.7 Meeting legislative requirements

### 4.7.1 Overview

The Act places some specific duties on water suppliers that are considered key to protecting the safety of drinking-water supplies. Some of these are contained in the Standards (such as monitoring) or should be included in water safety plans (such as source protection, keeping records and remedial action). Others, such as handling complaints, may be recorded with tools other than those used for water supply management.

Small zones were not required to meet monitoring, provision of drinking water, or source protection requirements during the reporting period.

Table 10 summarises the extent to which supplies have met these key requirements. Table 11 presents this as a function of supply size.

Water suppliers can fail to meet some legislative requirements through inadequate actions or by failing to provide appropriate documented evidence of the performance of those actions to their district health authority.

**Table 10: Meeting legislative requirements: all supplies**

Percentages are for population served.

**10a All supplies, from 1 July 2014 to 30 June 2015**

3,787,000 people in 660 zones.

	Population	Percentage	Zones
Monitoring	3,670,000	97.7%	572
Provision of drinking water	3,596,000	94.9%	641
Source protection	3,779,000	99.8%	644
Records	3,779,000	99.8%	646
Complaints	3,783,000	99.9%	648
Remedial action	3,747,000	98.9%	637

**10b All supplies, status between reporting years**

Reporting Year	2014–2015	2013–2014	Change*
Monitoring	97.7%	97.1%	+0.6%
Provision of drinking water	94.9%	98.5%	-3.5%**
Source protection	99.8%	99.9%	-0.1%
Records	99.8%	99.9%	-0.1%
Complaints	99.9%	99.9%	-0.1%**
Remedial action	98.9%	99.5%	-0.5%**

Population figures are rounded to the nearest thousand.

Percentages are rounded to one decimal place.

\* A positive change represents an improvement in legislative compliance.

\*\* Values are calculated using full-precision data rather than rounded figures from adjacent columns.

**Table 11: Meeting legislative requirements, by supply size, 1 July 2014 to 30 June 2015**

Percentages are for population served.

**a Meeting legislative requirements: Large zones**

2,940,000 people in 73 zones, each with over 10,000 people. Serves 78% of the report population.

	Population	Percentage	Zones
Monitoring	2,927,000	99.6%	72
Provision of drinking water	2,755,000	93.7%	72
Source protection	2,940,000	100%	73
Records	2,940,000	100%	73
Complaints	2,940,000	100%	73
Remedial action	2,927,000	99.5%	72

**b Meeting legislative requirements: Medium zones**

274,000 people in 37 zones, each with 5001 to 10,000 people. Serves 7% of the report population.

	Population	Percentage	Zones
Monitoring	259,000	94.3%	35
Provision of drinking water	274,000	100%	37
Source protection	274,000	100%	37
Records	274,000	100%	37
Complaints	274,000	100%	37
Remedial action	268,000	97.5%	36

**c Meeting legislative requirements: Minor zones**

494,000 people in 253 zones, each with 501 to 5000 people. Serves 13% of the report population.

	Population	Percentage	Zones
Monitoring	448,000	90.8%	229
Provision of drinking water	492,000	99.6%	252
Source protection	488,000	98.9%	251
Records	488,000	98.9%	251
Complaints	492,000	99.6%	252
Remedial action	476,000	96.4%	241

**d Meeting legislative requirements: Small zones**

78,800 people in 297 zones, each with 101 to 500 people. Serves 2% of the report population.

	Population	Percentage	Zones
Monitoring	65,200	82.7%	236
Provision of drinking water	74,500	94.5%	280
Source protection	76,000	96.3%	283
Records	76,300	96.8%	285
Complaints	76,500	97.0%	286
Remedial action	77,100	97.8%	288

Population figures are rounded to the nearest thousand (nearest hundred for small supplies).

**Table 12: Meeting legislative requirements: status between reporting years**

Percentages are for population served.

Reporting Year	2014–2015	2013–2014	Change*
<b>All supplies</b>			
Monitoring	97.7%	97.1%	+0.6%
Provision of drinking water	94.9%	98.5%	-3.5%
Source protection	99.8%	99.9%	-0.1%
Records	99.8%	99.9%	-0.1%
Complaints	99.9%	99.9%	-0.1%**
Remedial action	98.9%	99.5%	-0.5%**
<b>Large supplies</b>			
Monitoring	99.6%	99.1%	+0.4%**
Provision of drinking water	93.7%	98.1%	-4.4%
Source protection	100%	100%	0%
Records	100%	100%	0%
Complaints	100%	100%	0%
Remedial action	99.5%	100%	-0.5%
<b>Medium supplies</b>			
Monitoring	94.3%	90.1%	+4.2%
Provision of drinking water	100%	100%	0%
Source protection	100%	100%	0%
Records	100%	100%	0%
Complaints	100%	100%	0%
Remedial action	97.5%	100%	-2.5%
<b>Minor supplies</b>			
Monitoring	90.8%	91.4%	-0.6%
Provision of drinking water	99.6%	100%	-0.4%
Source protection	98.9%	99.6%	-0.7%
Records	98.9%	99.6%	-0.7%
Complaints	99.6%	100%	-0.4%
Remedial action	96.4%	96.3%	+0.1%
<b>Small supplies</b>			
Monitoring	82.7%	78.5%	+4.3%
Provision of drinking water	94.5%	97.3%	-2.8%
Source protection	96.3%	97.0%	-0.6%**
Records <sup>#</sup>	96.8%	97.1%	-0.3%
Complaints	97.0%	97.5%	-0.5%
Remedial action	97.8%	96.7%	+1.1%

Percentages are shown rounded to one decimal place.

\* A positive change represents an improvement in legislative compliance.

\*\* Values are calculated using full-precision data rather than rounded figures from adjacent columns.

# Small suppliers do not have to keep records under section 69ZD(1) of the Act.

Supply zone size: Large: Over 10,000    Medium: 5001–10,000    Minor: 501–5000    Small: 101–500.

Within the timeframe of this report, large, medium and minor drinking-water suppliers were expected to meet the requirements of sections 69S to 69ZC of the Act. This includes the requirements regarding monitoring, provision of drinking water, source protection and water safety plans. Most suppliers met these requirements. Overall, water suppliers are meeting their current requirements and many small suppliers are meeting their future requirements. In most situations, there is a tendency for fewer smaller (small or minor) drinking-water suppliers to have met their current requirements under the Act than larger (large or medium) drinking-water suppliers, but small suppliers have another year before compliance is required. Many

drinking-water suppliers already meet the requirements of the aspects of the Act that are being phased in and many others are making progress towards this achievement.

## **4.7.2 Requirements by section of the Act**

### **a. Monitoring requirements (section 69Y)**

Sole reliance on monitoring is an unsatisfactory basis for managing drinking-water quality and safety. However, the Act requires large, medium and minor water suppliers, and will require small water suppliers, to monitor water quality (as required in the Standards), as it is still a key component in managing drinking-water supplies. Monitoring provides a check that the water safety plan is operating satisfactorily, and indicates whether remedial action is required. Further, it allows the water supplier to determine whether the drinking-water quality meets that required by the Standards.

Overall, zones serving 97.7 percent of the report population met the monitoring requirements, with percentage compliance increasing with the size of the population served by a supply. Monitoring requirements in the reporting period were met for 99.6 percent of the population served by large supplies, 94.3 percent served by medium supplies, 90.8 percent by minor supplies and 82.7 percent by small supplies.

### **b. Provision of drinking water (section 69S)**

Insanitary conditions can arise when a community is without water, and consumers may seek other, possibly unsafe, sources of water. To avoid such eventualities, drinking-water suppliers will be required to take all practicable steps to ensure the adequacy of supply and in the event of an interruption, planned or otherwise, to take appropriate action.

Overall, zones serving 94.9 percent of the report population, or 3,596,000 people, met this requirement during the reporting period. One large, one minor and 17 small zones failed to meet the provision of drinking water requirements.

Only one large zone failed the requirement during this period, through failing to provide appropriate notification of interruptions, compared with three large zones during the previous reporting period. However, that single large zone provided water to 185,000 people, while the three large zones that failed in the previous period supplied a total of 56,000 people.

### **c. Source protection (section 69U)**

The protection of the quality of source waters is probably the most important component of the multi-barrier approach to drinking-water supply management encouraged by the Standards. Protection of source waters reduces the number and concentrations of contaminants that the water treatment system has to deal with. Further, the consequences for public health in the event of treatment failure will be reduced.

Overall, zones serving 99.8 percent of the report population met the requirement to take reasonable steps to contribute to the protection of source of drinking-water. This included all large and medium zones, 98.9 percent in minor zones and 96.3 percent in small zones, serving a total population of 3,779,000 people.

### **d. Records (section 69ZD)**

The keeping of records assists water suppliers and drinking-water assessors in determining whether a supply meets the requirements of the Act and achieves the Standards. It also ensures

that people unfamiliar with a supply, such as a new employee, are better informed about the way the supply should be operated and what operational parameters are typical. In the event of a waterborne disease outbreak or other incident resulting from system failure, well-kept records may assist in understanding what has gone wrong and how this could be prevented in the future.

Overall, records with sufficient information were maintained for distribution zones supplying 99.8 percent of the report population. All large and medium zones met the records requirement, along with those serving 98.9 percent of people in minor zones and 96.8 percent in small zones<sup>10</sup>.

#### **e. Complaints (section 69ZE)**

Complaints about drinking-water quality most often relate to the aesthetic properties of the water (taste, odour and appearance). In some cases, our senses of taste and smell are better able to identify a problem than instrumentation. Complaints need to be investigated, because they potentially inform the water supplier of a problem about which they may not otherwise be aware. Consumer concerns about the taste and odour of water, if sufficiently severe, may lead to the consumer seeking another source of drinking-water. While the alternative source may not have the aesthetic problems associated with the original drinking-water supply, it may contain health-significant contaminants that cannot be detected by human senses.

Overall, water suppliers investigated complaints they received about the drinking-water they supplied to zones serving 99.9 percent of the report population. This included all complaints for large and medium zones, as well as complaints for zones serving 99.6 percent in minor zones, and 97.0 percent in small zones.

#### **f. Remedial action (section 69ZF)**

The Act requires drinking-water suppliers to take all practicable steps to carry out appropriate remedial action in the event that monitoring reveals contamination of the water and that the Standards are breached. Prompt action is required when the contaminants are microbiological, because pathogens can rapidly cause disease. Although the Standards set out specific remedial action for particular situations, the absence of instructions for a specific situation should not prevent drinking-water suppliers from seeking a way of remedying a fault they have identified in their system, which may adversely affect the safety of the supply.

Almost all suppliers undertook remedial action in response to transgressions. Water suppliers did not take prompt remedial action, when necessary, in 23 zones serving 1.1 percent of the report population (40,000 people). These zones consisted of one large (13,000 people), one medium (7000 people), 12 minor (18,000 people) and 9 small (1700 people) zones.

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<sup>10</sup> Small suppliers do not have to keep records under section 69ZD(1) of the Act.



# Appendix 1. Achievement against the Standards

## KEY

Column	Scope	Size	Population	Symbol	Meaning
Bacteria	Zone bacteria achievement with Standards	Small	101 to 500	✓	Achieved Std
Protozoa	For contributing plants	Minor	501 to 5,000	×	Failed Std
Chemical	Zone and plant Priority 2 determinands	Medium	5,001 to 10,000		
		Large	10,001 or more		

## Whangarei District

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
BRE001BR	Bream Bay	5,280	Medium	Local Authority	✓	✓	✓
MAU002MA	Maungakaramea	220	Small	Local Authority	✓	✓	✓
WHA007HE	Whangarei Heads	2,450	Minor	Local Authority	✓	✓	✓
WHA007HI	Hikurangi	1,400	Minor	Local Authority	✓	✓	✓
WHA007WH	Whangarei	50,000	Large	Local Authority	✓	✓	✓

## Far North District

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
KAI006KA	Kaikohe	4,000	Minor	Local Authority	✓	✓	✓
KAI006NG	Ngawha Springs	200	Small	Local Authority	✓	✓	✓
KAI008KA	Kaitiāia	5,400	Medium	Local Authority	✓	×	✓
KAW002KA	Kawakawa	1,500	Minor	Local Authority	✓	✓	✓
KAW002MO	Moerewa / Otiria	2,000	Minor	Local Authority	✓	✓	✓
KER001KE	Kerikeri	6,200	Medium	Local Authority	✓	✓	✓
KER001WA	Waipapa	500	Small	Local Authority	✓	✓	✓
MAN005MA	Mangonui, Coopers Beach	2,000	Minor	Private Other	×	×	✓
OKA003OK	Okaihau	800	Minor	Local Authority	✓	✓	✓
OMA002OM	Omapere	900	Minor	Local Authority	✓	✓	✓
PAI001HA	Haruru Falls	1,000	Minor	Local Authority	✓	✓	✓
PAI001OP	Opua	1,000	Minor	Local Authority	✓	✓	✓
PAI001PA	Paihia	2,000	Minor	Local Authority	✓	✓	✓
PAK003PA	Pakanae	160	Small	Communal	×	×	✓
RAW001RA	Rawene	600	Minor	Local Authority	✓	✓	✓
RUS004RU	Russell Township-Commercial	200	Small	Private Other	×	✓	✓
WAI045WA	Waipapa, Lock	150	Small	Private Other	×	×	✓
WAI226WA	Waima Hapu Community	300	Small	Private Other	×	×	✓
WHI012WH	Whirinaki Maori Committee	250	Small	Private Other	×	×	✓

## Kaipara District

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
DAR002BB	Baylys Beach	228	Small	Local Authority	✓	×	✓
DAR002DT	Dargaville Town	4,455	Minor	Local Authority	✓	×	✓
KAI007KD	Kaihu-Dargaville	324	Small	Local Authority	×	×	✓
MAN003MA	Mangawhai Heads	200	Small	Local Authority	✓	×	✓
MAU001MA	Maungaturoto	900	Minor	Local Authority	✓	×	✓
RUA001RU	Ruawai	426	Small	Local Authority	✓	✓	✓

Appendix I. Achievement against the Standards

**Greater Auckland (Watercare)**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
AUC003AA	Auckland Airport	4,557	Minor	Local Authority	✓	✓	✓
AUC003AU	Auckland	261,638	Large	Local Authority	✓	✓	✓
AUC003AZ	Anzac	3,445	Minor	Local Authority	✓	✓	✓
AUC003BU	Buckland	609	Minor	Local Authority	✓	✓	✓
AUC003CB	Central Business Dist.Auckland	14,590	Large	Local Authority	✓	✓	✓
AUC003CL	Clarks/Waiiau Beach	1,332	Minor	Local Authority	✓	✓	✓
AUC003EB	East Tamaki/Botany	36,914	Large	Local Authority	✓	✓	✓
AUC003GL	Glenbrook Beach	393	Small	Local Authority	✓	✓	✓
AUC003GN	Glen Eden/New Lynn	56,785	Large	Local Authority	✓	✓	✓
AUC003HE	Henderson	125,916	Large	Local Authority	✓	✓	✓
AUC003HH	High Head	4,000	Minor	Local Authority	✓	✓	✓
AUC003HI	Hillsborough	62,355	Large	Local Authority	✓	✓	✓
AUC003HO	Howick/Pakuranga	94,803	Large	Local Authority	✓	✓	✓
AUC003HT	Hilltop	947	Minor	Local Authority	✓	✓	✓
AUC003HV	Huia Village	597	Minor	Local Authority	✓	✓	✓
AUC003HW	HBC/Waiwera	28,898	Large	Local Authority	✓	✓	✓
AUC003KI	Kitchener	14,866	Large	Local Authority	✓	✓	✓
AUC003LA	Laingholm	2,457	Minor	Local Authority	✓	✓	✓
AUC003MA	Maungawhau	45,267	Large	Local Authority	✓	✓	✓
AUC003MG	Mangere	71,629	Large	Local Authority	✓	✓	✓
AUC003MO	Montana	4,615	Minor	Local Authority	✓	✓	✓
AUC003MT	Mt Hobson	30,526	Large	Local Authority	✓	✓	✓
AUC003MW	Manurewa	72,305	Large	Local Authority	✓	✓	✓
AUC003ON	Onehunga	27,101	Large	Local Authority	✓	✓	✓
AUC003OP	Otara/Papatoetoe/ Manukau Cent.	58,441	Large	Local Authority	✓	✓	✓
AUC003OR	Oratia	1,596	Minor	Local Authority	✓	✓	✓
AUC003OT	Otahuhu	11,083	Large	Local Authority	✓	✓	✓
AUC003PT	Patumahoe	606	Minor	Local Authority	✓	✓	✓
AUC003SO	North Shore Sth.	151,400	Large	Local Authority	✓	✓	✓
AUC003SW	Swanson	4,540	Minor	Local Authority	✓	✓	✓
AUC003TH	Te Henga	1,085	Minor	Local Authority	✓	✓	✓
AUC003WE	North Shore West	71,300	Large	Local Authority	✓	✓	✓
AUC003WH	Whenuapai	5,460	Medium	Local Authority	✓	✓	✓
BOM003BO	Bombay	609	Minor	Local Authority	✓	✓	✓
BUR004BU	Burnside Road	352	Small	Local Authority	✓	✓	✓
HEL005HP	Helensville/Parakai	4,579	Minor	Local Authority	✓	✓	×
MUR011MU	Muriwai	563	Minor	Local Authority	✓	✓	✓
PAP001PC	Papakura City	30,091	Large	Local Authority	✓	✓	✓
PAP001RH	Red Hill	2,585	Minor	Local Authority	✓	✓	✓
PAP001TA	Takanini	14,540	Large	Local Authority	✓	✓	✓
SNE002SN	Snells/Algies	4,664	Minor	Local Authority	✓	✓	✓
WAI214WA	Waiuku	8,697	Medium	Local Authority	✓	✓	✓
WAR006WA	Warkworth	4,111	Minor	Local Authority	✓	✓	×
WEL004WE	Wellsford/Te Hana	2,114	Minor	Local Authority	✓	✓	✓

**Greater Auckland**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
BOM002BO	Bombay Motorway Services	200	Small	Private Other	✓	✓	✓
BRO015BP	Broadway Park, Newmarket	1,000	Minor	Private Other	×	✓	✓
HAR005HA	Haranui Whanau	499	Small	Marae	×	✓	✓
KEN005KP	Kensington Park	135	Small	Private Other	✓	×	✓
KIN002KH	Kingseat Community	400	Small	Private Other	✓	×	✓
MAT034MA	Matiatia Wharf	200	Small	Local Authority	×	×	✓
WAI197GL	Waiuku, Glenbrook Beach Road	200	Small	Private Other	×	✓	✓



Appendix 1. Achievement against the Standards

**Thames Coromandel District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
COR001CO	Coromandel	1,657	Minor	Local Authority	✓	✓	✓
HAH001HA	Hahei, Harsant Subdivision	457	Small	Local Authority	×	×	✓
HAH003PA	Hahei, Pa Road	200	Small	Private Other	×	×	✓
MAT009MA	Matatoki	150	Small	Local Authority	×	×	✓
MAT010MA	Matarangi	279	Small	Local Authority	✓	×	✓
ONE002ON	Onemana	170	Small	Local Authority	✓	×	✓
PAU001PA	Pauanui	747	Minor	Local Authority	×	×	×
PUR003PU	Puriri	150	Small	Local Authority	×	×	✓
TAI002TA	Tairua	1,335	Minor	Local Authority	✓	×	✓
TEP007AP	Te Puru - Aputa Ave	200	Small	Local Authority	×	×	✓
THA001TK	Thames - Kopu	7,657	Medium	Local Authority	✓	×	×
WHA003WH	Whangamata	3,665	Minor	Local Authority	×	×	✓
WHI001WH	Whitianga	4,115	Minor	Local Authority	×	×	✓

**Hauraki District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
KAI013KA	Kaimanawa	204	Small	Local Authority	✓	×	✓
KAR001KA	Karangahake	147	Small	Local Authority	✓	×	✓
KER005KE	Kerepehi	1,371	Minor	Local Authority	✓	✓	✓
MAC003MA	Mackaytown	174	Small	Local Authority	✓	×	✓
OHI001OH	Ohinemuri	702	Minor	Local Authority	✓	×	✓
PAE001PA	Paeroa	3,864	Minor	Local Authority	✓	×	✓
TUR007TU	Turua	1,181	Minor	Local Authority	✓	*	✓
WAI003WA	Waihi	4,623	Minor	Local Authority	✓	×	✓
WAI043WA	Waikino	304	Small	Local Authority	✓	×	✓
WAI201WA	Waitakaruru	2,076	Minor	Local Authority	✓	×	✓

\* Turua was supplied by a treatment plant during the period that was not associated with it in the Register of Drinking-water Supplies.

**Waikato District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
HUN002HU	Huntly	7,210	Medium	Local Authority	✓	×	✓
HUN002RO	Rotongaro	130	Small	Local Authority	✓	×	✓
NGA002HO	Horotiu	459	Small	Local Authority	✓	×	×
NGA002NG	Ngaruawahia	5,691	Medium	Local Authority	✓	×	×
NOR013NO	North Western Dist, Waikato DC	115	Small	Local Authority	×	✓	✓
POK001PO	Pokeno	1,128	Minor	Local Authority	✓	×	✓
RAG001RA	Raglan	3,187	Minor	Local Authority	✓	×	✓
SOU009SO	Southern Districts, Waikato DC	5,466	Medium	Local Authority	✓	✓	✓
TAU002HO	Hopuhopu	200	Small	Local Authority	✓	×	✓
TAU002TA	Taupiri	529	Minor	Local Authority	✓	×	✓
TEK001TR	Te Kauwhata / Rangiriri	1,410	Minor	Local Authority	✓	×	✓
TEK001WH	Whangamarino Rural / Meremere	739	Minor	Local Authority	✓	×	✓
TUA002TN	Tuakau North	1,102	Minor	Local Authority	✓	×	✓
TUA002TS	Tuakau South	4,169	Minor	Local Authority	✓	×	✓

**Matamata Piako District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
MAT004MA	Matamata Township	6,309	Medium	Local Authority	✓	×	✓
MAT004WA	Waharoa	634	Minor	Local Authority	✓	×	✓
MOR001MO	Morrinsville Township	6,603	Medium	Local Authority	✓	×	✓
TAH001TA	Tahuna Township	120	Small	Local Authority	✓	×	✓
TEA003TE	Te Aroha	3,768	Minor	Local Authority	✓	×	✓
WAI049WA	Waitoa Village & Factory	500	Small	Private Other	✓	×	✓

Appendix I. Achievement against the Standards

**Hamilton City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
HAM001HA	Hamilton City	130,813	Large	Local Authority	✓	✓	✓
HAM001RU	Ruakura/Ryburn Road	151	Small	Local Authority	✓	✓	✓
HAM001TE	Temple View, Hamilton	1,413	Minor	Local Authority	✓	✓	✓

**Waipa District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
CAM001CA	Cambridge	13,368	Large	Local Authority	×	×	✓
CAM001KA	Karapiro Village	132	Small	Local Authority	✓	×	✓
HAM006IT	East Side Terminal	400	Small	Private Other	✓	×	✓
HAM006WE	West Side Aviation Area	350	Small	Private Other	✓	×	✓
KIH001KI	Kihikihi	2,000	Minor	Local Authority	✓	✓	✓
PUK001OH	Ohaupo	468	Small	Local Authority	✓	×	✓
PUK001PU	Pukerimu Rural	3,278	Minor	Local Authority	✓	×	✓
TEA001PI	Pirongia	1,500	Minor	Local Authority	✓	×	✓
TEA001TE	Te Awamutu Township	9,165	Medium	Local Authority	✓	×	✓
TOK006TH	Tokanui	250	Small	Communal	✓	×	✓

**Otorohanga District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
ARO001AO	Aotearoa Road, Arohena	120	Small	Local Authority	✓	×	✓
ARO001MA	Mangare Road, Arohena	120	Small	Local Authority	✓	×	✓
KAW001KA	Kawhia Township	390	Small	Local Authority	✓	×	✓
OTO001OT	Otorohanga	2,875	Minor	Local Authority	×	×	✓
TIH001TI	Tihiroa	400	Small	Local Authority	✓	×	✓
WAI047WA	Waipa	175	Small	Local Authority	✓	×	✓

**South Waikato District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
ARA003AR	Arapuni	300	Small	Local Authority	✓	×	✓
PUT001PU	Putaruru	4,116	Minor	Local Authority	✓	×	✓
TIR001TI	Tirau	700	Minor	Local Authority	✓	×	✓
TOK001TO	Tokoroa	13,300	Large	Local Authority	✓	✓	✓

**Waitomo District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
BEN002BE	Benneydale	280	Small	Local Authority	✓	×	✓
MOK002MO	Mokau, Waitomo	200	Small	Local Authority	×	×	✓
PIO001PI	Piopio	500	Small	Local Authority	×	×	✓
TEK003TE	Te Kuiti	4,612	Minor	Local Authority	×	×	✓
WAI012WC	Waitomo Caves	500	Small	Private Other	✓	×	✓

**Ruapehu District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
NAT001NA	National Park	240	Small	Local Authority	✓	×	✓
OHA001OH	Ohakune Township	1,500	Minor	Local Authority	✓	×	✓
OHU001OH	Ohura	160	Small	Local Authority	✓	×	✓
OWH001OW	Owhango	200	Small	Local Authority	✓	×	✓
PIR001PI	Piriaka	120	Small	Communal	×	×	✓
RAE001RA	Raetihi Township	749	Minor	Local Authority	✓	×	×
TAU003TA	Taumarunui	4,870	Minor	Local Authority	✓	×	✓
WAI002WA	Waiouru Township	2,800	Minor	Government Other	✓	×	×
WHA015WV	Whakapapa Village	200	Small	DOC	×	×	✓

Appendix 1. Achievement against the Standards

**Western Bay of Plenty District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
TEP002BA	Bayliss	200	Small	Local Authority	×	✓	✓
TEP002BU	Te Puke (Bush)	200	Small	Local Authority	✓	✓	✓
TEP002MA	Maketu	4,500	Minor	Local Authority	✓	✓	✓
TEP002TP	Te Puke	8,000	Medium	Local Authority	×	✓	✓
WES011AT	Athenree	3,765	Minor	Local Authority	✓	✓	✓
WES011KA	Katikati	5,205	Medium	Local Authority	✓	✓	✓
WES013MI	Minden	1,200	Minor	Local Authority	✓	✓	✓
WES013WE	Westbay Central	4,600	Minor	Local Authority	✓	✓	✓

**Tauranga City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
BOS001EA	Boscabel Stage 1	120	Small	Communal	×	×	✓
BOS001WE	Boscabel Stage 2	120	Small	Communal	×	×	✓
TAU004MP	Mt Maunganui - Papamoa	52,000	Large	Local Authority	✓	✓	✓
TAU004TB	Tauranga - Bethlehem	51,783	Large	Local Authority	✓	✓	✓

**Whakatane District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
MAT005MA	Matata	690	Minor	Local Authority	✓	✓	✓
MUR002MU	Murupara	2,060	Minor	Local Authority	✓	×	✓
RAN007ED	Edgumbe	1,430	Minor	Local Authority	✓	×	×
RAN007PR	Rangitaiki Plains Rural	2,486	Minor	Local Authority	✓	×	×
RAN007TE	Te Teko	346	Small	Local Authority	✓	×	×
RUA003RU	Ruatoki	560	Minor	Local Authority	✓	×	✓
TAN001TA	Taneatua	790	Minor	Local Authority	✓	✓	✓
TEM004TE	Te Mahoe	120	Small	Local Authority	✓	×	✓
WAI017WA	Waimana	160	Small	Local Authority	✓	✓	✓
WHA005OH	Ohope	6,000	Medium	Local Authority	✓	✓	✓
WHA005WH	Whakatane	15,020	Large	Local Authority	✓	✓	✓

**Kawerau District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
KAW003KA	Kawerau	6,921	Medium	Local Authority	×	×	✓
KAW003UV	Upper Valley Road	800	Minor	Local Authority	×	×	✓

**Opotiki District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
KAI054KA	Kaiaia Hapu	160	Small	Marae	×	×	✓
KUT003KU	Kutarere	300	Small	Communal	×	×	✓
OMA016OM	Omaio	150	Small	Private Other	×	×	✓
OPO001HI	Hikutaia, Opotiki	1,100	Minor	Local Authority	✓	×	✓
OPO001OP	Opotiki Town	4,000	Minor	Local Authority	✓	✓	✓
TEK004TE	Te Kaha	390	Small	Local Authority	✓	×	✓

**Rotorua District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
BRU005BR	Brunswick 4	110	Small	Private Other	×	×	✓
HAM003HA	Hamurana	900	Minor	Local Authority	✓	✓	✓
HAM003KA	Kaharoa	800	Minor	Local Authority	✓	✓	✓
KAI009KA	Kaingaroa	400	Small	Communal	×	×	✓
MAM001MA	Mamaku Township	868	Minor	Local Authority	✓	×	✓
NGO001NG	Ngongotaha Township	4,826	Minor	Local Authority	✓	✓	✓
REP001RE	Reporoa	1,060	Minor	Local Authority	✓	✓	✓
ROT001OK	Okareka	730	Minor	Local Authority	✓	✓	✓
ROT001RE	Rotorua Eastern Suburbs	9,600	Medium	Local Authority	✓	✓	✓
ROT002RO	Rotoma	340	Small	Local Authority	✓	✓	✓
ROT003RO	Rotorua City	42,500	Large	Local Authority	✓	×	✓

Appendix I. Achievement against the Standards

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
ROT004RO	Rotoiti	880	Minor	Local Authority	✓	✓	✓
WAI074WA	Waipa Sawmill	300	Small	Private Other	×	×	✓

**Taupo District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
ACA001AC	Acacia Bay	1,512	Minor	Local Authority	✓	×	×
ACA001MA	Mapara Road Rural	869	Minor	Local Authority	✓	×	✓
ATI001AV	Atiamuri Village	134	Small	Local Authority	✓	×	✓
BON001BO	Bonshaw Park	152	Small	Local Authority	✓	×	✓
CEN001RR	Rakanui Road	200	Small	Local Authority	✓	×	✓
HAT001HV	Hatepe Village	174	Small	Local Authority	×	×	✓
KIN001KI	Kinloch Town	1,604	Minor	Local Authority	✓	×	✓
MAN002MA	Mangakino	1,312	Minor	Local Authority	✓	×	✓
MOT002MO	Motuoapa	739	Minor	Local Authority	✓	×	×
OMO001OM	Omori / Kuratau / Pukawa	1,783	Minor	Local Authority	✓	×	×
RIV003RI	River Rd Reporoa	197	Small	Local Authority	✓	×	✓
TAU001TC	Taupo Central & West	17,105	Large	Local Authority	✓	×	✓
TAU001TS	Taupo - Taupo South	6,396	Medium	Local Authority	✓	×	✓
TIR002TI	Tirohanga	325	Small	Local Authority	✓	×	✓
TUR001TO	Tokaanu	360	Small	Local Authority	✓	×	✓
TUR001TU	Turangi	3,578	Minor	Local Authority	✓	×	✓
WHA010WH	Whareroa	313	Small	Local Authority	✓	×	✓
WHA011WH	Whakamaru	116	Small	Local Authority	✓	×	✓

**Gisborne District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
ENI001MA	Mangahauini	130	Small	Communal	×	×	✓
GIS001GI	Gisborne City	29,600	Large	Local Authority	✓	×	✓
GIS001RU	Gisborne Rural	1,000	Minor	Local Authority	✓	×	✓
TEK002TE	Te Karaka	491	Small	Local Authority	✓	×	✓
TEP001TE	Te Puia Springs Hosp & Village	300	Small	Health	✓	×	✓
WHA004WH	Whatatutu	200	Small	Local Authority	✓	×	✓

**New Plymouth District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
ING001IN	Inglewood	3,983	Minor	Local Authority	✓	✓	✓
NEW002BE	Bell Block	4,820	Minor	Local Authority	✓	✓	✓
NEW002LE	Lepperton	200	Small	Local Authority	✓	✓	✓
NEW002NE	New Plymouth	45,420	Large	Local Authority	✓	✓	✓
NEW002UR	Urenui/Tikorangi	1,030	Minor	Local Authority	✓	✓	✓
NEW002WA	Waitara	7,602	Medium	Local Authority	✓	✓	✓
OAK001OA	Oakura	1,625	Minor	Local Authority	✓	✓	✓
OKA002OK	Okato	530	Minor	Local Authority	✓	✓	✓

**Stratford District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
MID001MI	Midhirst	200	Small	Local Authority	✓	✓	✓
STR001ST	Stratford	6,773	Medium	Local Authority	✓	✓	✓

**South Taranaki District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
COL005PI	Pihama	350	Small	Private Other	×	×	✓
ELT001EL	Eltham	1,980	Minor	Local Authority	✓	×	✓
HAW003HA	Hawera	8,550	Medium	Local Authority	✓	✓	✓
HAW003NO	Normanby	850	Minor	Local Authority	✓	✓	✓
HAW003OH	Ohawe Beach	210	Small	Local Authority	✓	✓	✓
INA001IN	Inaha	495	Small	Local Authority	✓	×	✓
OPU001OP	Opunake	1,370	Minor	Local Authority	✓	✓	✓
PAT001PA	Patea	1,150	Minor	Local Authority	✓	✓	✓

Appendix 1. Achievement against the Standards

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
RAH001RA	Rahotu	115	Small	Local Authority	✓	✓	✓
WAI018KA	Kaponga	370	Small	Local Authority	✓	✓	✓
WAI018MA	Manaia	925	Minor	Local Authority	✓	✓	✓
WAI018RU	Waimate West Rural	1,585	Minor	Local Authority	✓	✓	✓
WAV001WA	Waverley	950	Minor	Local Authority	✓	✓	✓

**Wairoa District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
RAU006RA	Raupunga	250	Small	Communal	×	×	✓
TUA005TU	Tuai	300	Small	Local Authority	✓	✓	✓
WAI006FR	Frasertown	350	Small	Local Authority	✓	✓	✓
WAI006WA	Wairoa	4,300	Minor	Local Authority	✓	✓	✓

**Napier City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
BAY001BA	Bayview Township	894	Minor	Local Authority	✓	✓	✓
NAP001NA	Napier City	25,800	Large	Local Authority	✓	✓	✓
NAP001TA	Taradale	24,110	Large	Local Authority	✓	✓	✓

**Hastings District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
CLI001AL	Allen Lane/Ferry Rd, Clive	198	Small	Local Authority	✓	✓	✓
CLI001VA	Valerie St/Tuckers Lane, Clive	362	Small	Local Authority	✓	✓	✓
HAS001BP	Bridge Pa	300	Small	Local Authority	×	✓	✓
HAS001EA	Hastings East	13,562	Large	Local Authority	✓	✓	✓
HAS001FL	Flaxmere	11,324	Large	Local Authority	✓	✓	✓
HAS001WE	Hastings West & Central	20,829	Large	Local Authority	✓	✓	✓
HAU002HA	Haumoana / Te Awanga	1,900	Minor	Local Authority	✓	✓	✓
HAV001HA	Havelock North	11,623	Large	Local Authority	✓	✓	✓
OMA008OM	Omahu	126	Small	Local Authority	✓	×	✓
PAK008PA	Paki Paki	200	Small	Local Authority	✓	✓	✓
PAR025PA	Parkhill Farm	288	Small	Local Authority	✓	×	✓
WAI007WA	Waimarama	260	Small	Local Authority	✓	×	✓
WHA029WH	Whakatu	337	Small	Local Authority	✓	✓	✓
WHI007WH	Whirinaki, Hawkes Bay	750	Minor	Local Authority	×	×	✓

**Central Hawkes Bay District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
POR003PT	Porangahau Township	130	Small	Local Authority	✓	×	✓
TAK001TA	Takapau Township	570	Minor	Local Authority	×	✓	✓
WAI004HI	Waipukurau High Pressure Zone	3,000	Minor	Local Authority	×	×	✓
WAI004LO	Waipukurau Low Pressure Zone	666	Minor	Local Authority	×	×	✓
WAI005OT	Otane Township	546	Minor	Local Authority	×	×	✓
WAI005WA	Waipawa Township	1,809	Minor	Local Authority	×	×	✓

**Chatham Islands**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
WAI158WA	Waitangi, Chatham Is.	125	Small	Local Authority	✓	×	✓

**Wanganui District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
BRU001BR	Brunswick-Westmere	450	Small	Local Authority	✓	✓	✓
FOR001FO	Fordell Township	350	Small	Local Authority	✓	✓	✓
MAX001MA	Maxwell	200	Small	Local Authority	✓	✓	✓
MOW001MO	Mowhanau Beach	300	Small	Local Authority	✓	✓	✓
WAN001AR	Aramoho	5,000	Minor	Local Authority	✓	✓	✓
WAN001EA	Wanganui East	5,000	Minor	Local Authority	✓	✓	✓
WAN001WA	Wanganui City	29,000	Large	Local Authority	✓	✓	✓

Appendix I. Achievement against the Standards

**Rangitikei District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
BUL001BU	Bulls Township	1,800	Minor	Local Authority	✓	×	✓
HUN001HU	Hunterville Township	400	Small	Local Authority	×	×	✓
MAN001MA	Mangaweka Township	180	Small	Local Authority	×	×	✓
MAR001MA	Marton Township	3,750	Minor	Local Authority	✓	×	×
RAT001RA	Ratana Township	450	Small	Local Authority	✓	×	✓
TAI001TA	Taihape Township	2,200	Minor	Local Authority	✓	×	✓

**Manawatu District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
FEI001FE	Feilding	13,000	Large	Local Authority	×	×	✓
HAL001HA	Halcombe-Stanway	430	Small	Local Authority	✓	×	✓
HIM001HI	Himatangi Beach	438	Small	Local Authority	✓	×	✓
KIW003KI	Kimbolton	150	Small	Communal	×	×	✓
OHA002OH	Ohakea	800	Minor	Government Other	✓	×	✓
SAN001SA	Sanson	492	Small	Local Authority	✓	×	✓
WAI022WA	Waituna West	200	Small	Local Authority	✓	✓	✓

**Palmerston North City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
ASH001AS	Ashurst	2,800	Minor	Local Authority	✓	✓	✓
BUN001BU	Bunnythorpe	450	Small	Local Authority	✓	✓	✓
LIN001LI	Linton	4,500	Minor	Government Other	✓	✓	✓
LON001LO	Longburn	240	Small	Local Authority	✓	✓	✓
LON002SC	Longburn Adventist College	300	Small	Education Public	×	×	✓
LON006BR	Longburn, Brandlines	150	Small	Private Other	×	×	✓
MAS001MA	Massey University	9,000	Medium	Private Other	✓	✓	✓
PAL001AO	Aokautere	2,739	Minor	Local Authority	✓	✓	✓
PAL001FW	Fitzherbert West	450	Small	Local Authority	✓	✓	✓
PAL001KG	Kelvin Grove	5,784	Medium	Local Authority	✓	✓	✓
PAL001PC	Palmerston North City	58,680	Large	Local Authority	✓	✓	✓

**Tararua District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
DAN001DA	Dannevirke	6,000	Medium	Local Authority	×	×	✓
EKE001EK	Eketahuna	456	Small	Local Authority	✓	×	✓
NOR002NO	Norsewood	200	Small	Local Authority	✓	✓	✓
PAH001PA	Pahiatua	2,700	Minor	Local Authority	×	×	✓
PLE002PL	Pleckville	200	Small	Communal	×	×	✓
PON001PO	Pongaroa	200	Small	Communal	×	×	✓
WOO001WO	Woodville	1,500	Minor	Local Authority	✓	×	✓

**Horowhenua District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
FOX002FO	Foxton	2,700	Minor	Local Authority	✓	✓	✓
FOX003FO	Foxton Beach	1,900	Minor	Local Authority	✓	✓	✓
LEV001LE	Levin	20,000	Large	Local Authority	✓	×	✓
SHA001SH	Shannon	1,436	Minor	Local Authority	✓	✓	✓
TOK002TO	Tokomaru	550	Minor	Local Authority	✓	×	×

**Kapiti Coast District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
HAU003HA	Hautere	700	Minor	Local Authority	✓	×	✓
OTA003OT	Otaki	4,700	Minor	Local Authority	✓	×	✓
OTA003WA	Waitohu	1,000	Minor	Local Authority	✓	×	✓
PAE002PA	Paekakariki	1,665	Minor	Local Authority	✓	✓	✓
WAI010PA	Paraparaumu/Raumati	25,200	Large	Local Authority	✓	✓	✓
WAI010WA	Waikanae	10,600	Large	Local Authority	✓	✓	✓

Appendix 1. Achievement against the Standards

**Upper Hutt City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
UPP001PI	Pinehaven	3,090	Minor	Local Authority	✓	✓	✓
UPP001UP	Upper Hutt Central	31,560	Large	Local Authority	✓	✓	✓

**The Hutt City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
LOW001EA	Eastbourne	4,704	Minor	Local Authority	✓	✓	✓
LOW001HA	Haywards	372	Small	Local Authority	✓	✓	✓
LOW001LO	Lower Hutt	56,103	Large	Local Authority	✓	✓	✓
LOW001PE	Petone	8,034	Medium	Local Authority	✓	✓	✓
LOW001ST	Stokes Valley	9,198	Medium	Local Authority	✓	✓	✓
LOW001WA	Wainuiomata	17,058	Large	Local Authority	✓	✓	✓

**Porirua City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
JUD001JU	Judgeford	200	Small	Local Authority	✓	✓	✓
POR001MA	Mana/Plimmerton/Paremata	5,184	Medium	Local Authority	✓	✓	✓
POR001PH	Porirua High Level	15,398	Large	Local Authority	✓	✓	✓
POR001PL	Porirua Low Level	16,924	Large	Local Authority	✓	✓	✓
POR001PU	Pukerua Bay	1,656	Minor	Local Authority	✓	✓	✓
POR001WH	Whitby	7,282	Medium	Local Authority	✓	✓	✓

**Wellington City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
WEL002BR	Brooklyn	9,765	Medium	Local Authority	✓	✓	✓
WEL002CH	Churton	4,446	Minor	Local Authority	✓	✓	✓
WEL002EA	Eastern Wellington	16,815	Large	Local Authority	✓	✓	✓
WEL002JO	Johnsonville	18,357	Large	Local Authority	✓	✓	✓
WEL002KA	Karori	13,146	Large	Local Authority	✓	✓	✓
WEL002KE	Kelburn	9,924	Medium	Local Authority	✓	✓	✓
WEL002ON	Onslow	11,883	Large	Local Authority	✓	✓	✓
WEL002SO	Southern Wellington	30,024	Large	Local Authority	✓	✓	✓
WEL002TA	Tawa	12,903	Large	Local Authority	✓	✓	✓
WEL002WA	Wadestown	6,789	Medium	Local Authority	✓	✓	✓
WEL002WE	Wellington Central	31,074	Large	Local Authority	✓	✓	✓

**Masterton District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
FER001FE	Fernridge	320	Small	Communal	✓	✓	✓
MAS002MA	Masterton	19,000	Large	Local Authority	✓	✓	✓
OPA001OP	Opaki	600	Minor	Communal	✓	×	✓
TIN002TI	Tinui	120	Small	Local Authority	✓	×	✓
WAI058WA	Wainuioru Rural Water	184	Small	Communal	×	×	✓

**Carterton District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
CAR001CA	Carterton	4,200	Minor	Local Authority	✓	×	✓

**South Wairarapa District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
FEA001FE	Featherston	2,580	Minor	Local Authority	✓	×	×
GRE002GR	Greytown	1,952	Minor	Local Authority	✓	×	✓
MAR003MA	Martinborough	1,505	Minor	Local Authority	✓	×	✓

**Nelson City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
GLE013GL	Glenwood	150	Small	Communal	×	×	✓
NEL001NL	Nelson	49,740	Large	Local Authority	✓	✓	✓



Appendix 1. Achievement against the Standards

**Tasman District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
APP002AP	Appleby Hills	250	Small	Communal	×	✓	✓
CEN002CT	Central Takaka	125	Small	Communal	×	×	✓
COL007CO	Collingwood	450	Small	Local Authority	✓	×	✓
DOV001DO	Dovedale Rural	450	Small	Local Authority	×	×	✓
EIG001EI	Eighty Eight Valley Rural	200	Small	Local Authority	✓	×	✓
HOP001HO	Hope/Brightwater	2,730	Minor	Local Authority	✓	×	✓
KAI015KA	Kaiteriteri	300	Small	Local Authority	✓	×	✓
LAK013LA	Lake Rotoiti	200	Small	DOC	×	✓	✓
LOW006LM	Lower Moutere Scheme 2	200	Small	Communal	×	×	✓
LOW006LO	Lower Moutere Scheme 1	400	Small	Communal	×	×	✓
MOT001MO	Motueka	1,200	Minor	Local Authority	✓	×	✓
MUR001MU	Murchison	490	Small	Local Authority	✓	×	✓
POH001PV	Pohara	150	Small	Local Authority	✓	×	✓
RED001R1	Redwoods #1	180	Small	Local Authority	✓	×	✓
RED001R2	Redwoods #2	370	Small	Local Authority	✓	×	✓
RIC002RI	Richmond	10,500	Large	Local Authority	✓	×	✓
RIC002WI	Waimea Industrial	1,800	Minor	Local Authority	×	×	✓
TAP003TA	Tapawera	400	Small	Local Authority	✓	×	✓
WAI023MR	Mapua Ruby Bay	1,500	Minor	Local Authority	✓	×	✓
WAK001WA	Wakefield	1,500	Minor	Local Authority	✓	×	✓

**Marlborough District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
BLE001BL	Blenheim	25,842	Large	Local Authority	✓	×	✓
HAV002HA	Havelock	486	Small	Local Authority	✓	×	✓
PIC001PI	Picton/Waikawa	4,053	Minor	Local Authority	✓	×	✓
RAR001RA	Rarangi	160	Small	Communal	✓	×	✓
REN001RE	Renwick	2,118	Minor	Local Authority	✓	×	✓
RIV002RI	Riverlands Industrial Estate	471	Small	Local Authority	✓	×	✓
SED001DA	Dashwood Rural	243	Small	Local Authority	×	×	✓
SED001SE	Seddon, Awatere Valley	945	Minor	Local Authority	✓	×	×
WAI034WA	Wairau Valley	165	Small	Local Authority	✓	×	✓
WAR003WA	Ward	250	Small	Communal	×	×	✓

**Buller District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
HEC001HE	Hector	300	Small	Local Authority	×	×	✓
HEC001NG	Ngakawau	135	Small	Local Authority	×	×	✓
LIT003LI	Little Wanganui	150	Small	Local Authority	×	×	✓
PUN001PU	Punakaiki	230	Small	Local Authority	×	×	✓
REE001RE	Reefton	951	Minor	Local Authority	×	×	✓
WAI001WA	Waimangaroa	300	Small	Local Authority	×	×	✓
WES001CA	Carters Beach	357	Small	Local Authority	✓	×	✓
WES001WE	Westport	4,617	Minor	Local Authority	×	×	✓

**Grey District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
BLA001BL	Blackball	481	Small	Local Authority	✓	✓	✓
GRE001CO	Cobden	2,000	Minor	Local Authority	✓	×	✓
GRE001GM	Greymouth	7,183	Medium	Local Authority	✓	×	✓
RUN001RA	Rapahoe	102	Small	Local Authority	✓	×	✓
RUN001RU	Runanga	1,337	Minor	Local Authority	×	×	✓
STI001ST	Stillwater	122	Small	Local Authority	✓	×	✓
TAY001DO	Dobson	464	Small	Local Authority	×	×	✓
TAY001TA	Taylorville	198	Small	Local Authority	✓	×	✓



Appendix 1. Achievement against the Standards

**Westland District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
FOX001FO	Fox Glacier	252	Small	Local Authority	✓	×	✓
FRA001FR	Franz Josef	330	Small	Local Authority	×	×	✓
HAR001HA	Harihari	348	Small	Local Authority	✓	✓	✓
HOK001HO	Hokitika	3,537	Minor	Local Authority	✓	×	×
KUM001KU	Kumara	318	Small	Local Authority	×	×	✓
ROS001RO	Ross Township	291	Small	Local Authority	✓	×	✓
WHA002WH	Whataroa	405	Small	Local Authority	✓	×	✓

**Kaikoura District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
FER003FE	Fernleigh Rural Water Supply	150	Small	Local Authority	×	×	✓
KAI004KU	Kaikoura Urban	2,500	Minor	Local Authority	✓	✓	✓
KAI021EA	Kaikoura East Coast Rural	150	Small	Local Authority	✓	×	✓
KEK001RE	Kekerengu Restaurant	300	Small	Communal	×	×	✓
KIN003KI	Kincaid Rural Water Supply	120	Small	Local Authority	×	✓	✓
OAR001OA	Oaro	400	Small	Local Authority	✓	✓	✓
OCE002OC	Ocean Ridge	500	Small	Local Authority	×	×	✓

**Hurunui District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
AMB001AT	Amberley Town	1,200	Minor	Local Authority	✓	✓	✓
AMB004BE	Amberley Beach	480	Small	Local Authority	✓	×	✓
AMB004BR	Broomfield	150	Small	Local Authority	✓	×	✓
AMU001RO	Rotherham Township and Rural	400	Small	Local Authority	✓	×	✓
ASH002AS	Ashley/Sefton/Loburn	2,750	Minor	Local Authority	✓	×	✓
ASH002LE	Leithfield	500	Small	Local Authority	×	×	✓
BAL003BA	Balmoral Rural Water Supply	200	Small	Local Authority	✓	×	✓
CHE001CT	Cheviot Town	1,340	Minor	Local Authority	×	×	✓
CHE001GO	Gore Bay/Port Robinson Rural	300	Small	Local Authority	×	×	✓
CUL001CU	Culverden	420	Small	Local Authority	✓	×	✓
HAN001HA	Hanmer Town	1,500	Minor	Local Authority	✓	×	✓
HAW001HW	Hawarden/Waikari	1,100	Minor	Local Authority	✓	×	✓
KAI039KA	Kaiwara	162	Small	Local Authority	✓	×	✓
KAR005KA	Lower Waitohi	300	Small	Local Authority	✓	×	✓
LEI004LE	Leithfield Beach	150	Small	Local Authority	✓	×	✓
MOT016MO	Motunau, Greta, Scargill	600	Minor	Local Authority	✓	×	✓
PAR009PA	Parnassus Rural	160	Small	Local Authority	✓	×	✓
WAI026WT	Waiiau Township	420	Small	Local Authority	✓	×	✓
WAI066UP	Waitohi Upper, Waipara	400	Small	Local Authority	✓	×	✓
WAI067WA	Waiiau Rural	240	Small	Local Authority	✓	×	✓
WAI068WA	Waipara Township	300	Small	Local Authority	✓	×	✓

**Waimakariri District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
CUS001CU	Cust	350	Small	Local Authority	✓	×	✓
FER002FE	Fernside	215	Small	Local Authority	✓	×	✓
GAR001GA	Garrymere	105	Small	Local Authority	✓	×	✓
KAI003KA	Kaiapoi	11,315	Large	Local Authority	✓	✓	✓
MAN009MA	Mandeville	1,843	Minor	Local Authority	✓	×	✓
OHO001OH	Ohoka	262	Small	Local Authority	✓	×	✓
OXF101OX	Oxford Rural No1	1,247	Minor	Local Authority	✓	×	✓
OXF102OR	Oxford Rural No2	797	Minor	Local Authority	✓	×	✓
OXF103OX	Oxford Urban	2,133	Minor	Local Authority	✓	✓	✓
PEG001PE	Pegasus	2,975	Minor	Local Authority	✓	✓	✓
PIN001PK	Pines/Kairaki	452	Small	Local Authority	✓	×	✓
POY001PO	Poyntz Road	212	Small	Local Authority	✓	×	✓
RAN001RA	Rangiora	17,605	Large	Local Authority	✓	✓	✓
WAI011KI	Waikuku Beach	1,036	Minor	Local Authority	✓	×	✓

Appendix 1. Achievement against the Standards

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
WES004SU	Summerhill	480	Small	Local Authority	✓	✓	✓
WES004WE	West Eyreton	122	Small	Local Authority	✓	✓	✓
WOO002WO	Woodend Town	3,265	Minor	Local Authority	✓	✓	✓

**Christchurch City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
AKA001AY	Aylmers	900	Minor	Local Authority	✓	×	✓
AKA001LA	L'Aube Hill	450	Small	Local Authority	✓	×	✓
BIR001BI	Birdlings Flat	150	Small	Local Authority	✓	×	✓
BRO012BR	Brooklands / Kainga	1,600	Minor	Local Authority	✓	✓	✓
CHR001CE	Central Christchurch	185,000	Large	Local Authority	✓	✓	✓
CHR001PA	Parklands	16,000	Large	Local Authority	✓	✓	✓
CHR001RI	Riccarton	10,000	Medium	Local Authority	✓	✓	✓
CHR001RP	Rocky Point	2,500	Minor	Local Authority	✓	✓	✓
CHR001WE	West Christchurch	42,000	Large	Local Authority	✓	✓	✓
DUV001DU	Duvauchelle	250	Small	Local Authority	✓	×	✓
LIT001LI	Little River	240	Small	Local Authority	✓	×	✓
LYT001DI	Diamond Harbour	1,200	Minor	Local Authority	✓	✓	✓
LYT001GO	Governors Bay	750	Minor	Local Authority	✓	✓	✓
LYT001LY	Lyttelton	2,500	Minor	Local Authority	✓	✓	✓
NOR012CH	Northwest Christchurch	80,000	Large	Local Authority	✓	×	✓
OKA010OK	Okains Bay	105	Small	Communal	×	×	✓
TAK002TA	Takamatua	150	Small	Local Authority	✓	×	✓
WAI138WA	Wainui	200	Small	Local Authority	✓	✓	✓
WAT006WB	Waterloo Business Pk, Stage 1	1,300	Minor	Private Other	×	×	✓

**Selwyn District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
ART002AR	Arthurs Pass	350	Small	Local Authority	✓	×	✓
CAS003CA	Castle Hill	299	Small	Local Authority	×	×	✓
CLA005CL	Claremont	170	Small	Local Authority	✓	×	✓
DAR001DA	Darfield	3,283	Minor	Local Authority	✓	✓	✓
DUN008DU	Dunsandel & Sherwood Estate	480	Small	Local Authority	✓	×	✓
EDE002ED	Edendale, Sandy Knolls	180	Small	Local Authority	✓	×	✓
JOH001JO	Johnson Rd, West Melton	160	Small	Local Authority	✓	×	✓
JOW001JO	Jowers Rd West Melton	160	Small	Local Authority	✓	×	✓
KIR001KI	Kirwee	1,100	Minor	Local Authority	✓	✓	✓
LAK007LA	Lake Coleridge	148	Small	Local Authority	×	×	✓
LEE001LE	Leeston	2,350	Minor	Local Authority	✓	×	✓
LIN002LI	Lincoln	3,670	Minor	Local Authority	✓	×	✓
MAL001DA	Dalethorpe	183	Small	Local Authority	✓	×	✓
MAL001MA	Malvern Hills, Hartleys Rd	1,409	Minor	Local Authority	✓	×	✓
PRE001PR	Prebbleton	2,920	Minor	Local Authority	✓	×	✓
RAK003RA	Rakaia Huts	313	Small	Local Authority	✓	✓	✓
ROL001RO	Rolleston	9,530	Medium	Local Authority	✓	×	✓
SEL001AC	Acheron	240	Small	Local Authority	✓	×	✓
SEL001HO	Hororata	920	Minor	Local Authority	✓	×	✓
SHE004SH	Sheffield/Waddington	585	Minor	Local Authority	✓	×	✓
SOU001SO	Southbridge	992	Minor	Local Authority	✓	×	✓
SPR002SP	Springfield	520	Minor	Local Authority	✓	×	✓
SPR003SP	Springston	510	Minor	Local Authority	×	×	✓
TAI009TA	Tai Tapu	606	Minor	Local Authority	×	×	✓
WES010WE	West Melton	1,300	Minor	Local Authority	✓	×	✓

Appendix 1. Achievement against the Standards

**Ashburton District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
ASH003AS	Ashburton	18,500	Large	Local Authority	✓	✓	✓
CHE002CH	Chertsey	230	Small	Local Authority	✓	✓	✓
FAI001FA	Fairton	210	Small	Local Authority	✓	✓	✓
HAK001HH	Hakatere Upper	110	Small	Local Authority	✓	×	✓
HIG002HI	Highbank Society Water Supply	220	Small	Communal	×	×	✓
HIN001HI	Hinds	340	Small	Local Authority	✓	✓	✓
LAK022LA	Lake Hood	300	Small	Local Authority	✓	×	✓
LYN002LY	Lyndhurst	200	Small	Private Other	×	✓	✓
MAY001MA	Mayfield	160	Small	Local Authority	✓	✓	✓
MET001ME	Methven	1,700	Minor	Local Authority	✓	×	✓
MET002MS	Methven/Springfield	180	Small	Local Authority	✓	×	✓
MTS001MS	Mt Somers Township	260	Small	Local Authority	✓	×	✓
RAK001RA	Rakaia Township	1,100	Minor	Local Authority	✓	✓	✓

**Timaru District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
ARO002AO	Arowhenua	215	Small	Private Other	×	✓	✓
DOW001ST	Sutherlands/Taiko	3,000	Minor	Local Authority	✓	×	✓
DOW001WR	Waimate Rural	360	Small	Local Authority	✓	×	✓
DOW001WT	Waitohi/Totara Valley	700	Minor	Local Authority	✓	×	✓
GER001GE	Geraldine	2,433	Minor	Local Authority	✓	✓	✓
HAD001HA	Hadlow	312	Small	Local Authority	✓	×	✓
PAR002PA	Pareora	427	Small	Local Authority	✓	✓	✓
PEE001PF	Peel Forest	130	Small	Local Authority	✓	×	✓
PLE001PP	Pleasant Point	1,282	Minor	Local Authority	✓	✓	✓
SEA001SE	Seadown	896	Minor	Local Authority	✓	✓	✓
STA004ST	St Andrews	304	Small	Local Authority	✓	×	✓
TEM001OR	Orari	170	Small	Local Authority	✓	✓	✓
TEM001TE	Temuka	4,200	Minor	Local Authority	✓	✓	✓
TEM002GD	Geraldine Downs	324	Small	Local Authority	✓	×	✓
TEM002GF	Geraldine Flat	180	Small	Local Authority	✓	×	✓
TEM002TE	Te Moana	710	Minor	Local Authority	✓	×	✓
TIM001GL	Gleniti	3,400	Minor	Local Authority	✓	×	✓
TIM001TI	Timaru	22,620	Large	Local Authority	✓	×	✓
WIN002WI	Winchester	250	Small	Local Authority	✓	×	✓

**Mackenzie District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
ALB001AL	Albury Rural	125	Small	Communal	×	×	✓
ALL001AL	Allandale	291	Small	Local Authority	×	×	✓
FAI002FA	Fairlie	693	Minor	Local Authority	×	×	✓
FAI002KI	Kimbell	150	Small	Local Authority	×	×	✓
MTC001MT	Mt Cook	200	Small	DOC	×	✓	✓
TEK005TE	Tekapo	369	Small	Local Authority	×	×	✓
TWI001TW	Twizel	1,137	Minor	Local Authority	×	×	×

**Waimate District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
CAN001CM	Cannington/Motukaika	120	Small	Local Authority	×	×	✓
HAK002HA	Hakataramea	165	Small	Communal	×	×	✓
HOO001HW	Hook/Waituna	1,350	Minor	Local Authority	×	×	✓
LOW002LO	Lower Waihao	600	Minor	Local Authority	✓	×	✓
OTA005OM	Otaio/Makikihi	430	Small	Local Authority	✓	✓	✓
WAI031WA	Waihaorunga	141	Small	Local Authority	×	×	✓
WAI032WA	Waikakahi	360	Small	Local Authority	✓	×	✓
WAI033WA	Waimate	3,000	Minor	Local Authority	✓	✓	✓

Appendix I. Achievement against the Standards

**Waitaki District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
AWA001AW	Awamoko	399	Small	Local Authority	✓	×	✓
HAM002HA	Hampden	237	Small	Local Authority	✓	×	✓
HAM002MO	Moeraki	264	Small	Local Authority	✓	×	✓
HER001HE	Herbert	670	Minor	Local Authority	✓	×	✓
KAU001KA	Kauru Hill	197	Small	Local Authority	×	×	✓
KUR001KU	Kurow Township	330	Small	Local Authority	×	✓	✓
LOW004LO	Lower Waitaki	778	Minor	Local Authority	✓	✓	✓
MAH001MA	Maheno	152	Small	Communal	✓	✓	✓
OAM001AR	Oamaru, Ardgowan	252	Small	Local Authority	✓	✓	✓
OAM001CE	Oamaru, Central	4,622	Minor	Local Authority	✓	✓	✓
OAM001KA	Oamaru, Kakanui	520	Minor	Local Authority	✓	✓	✓
OAM001NE	Oamaru, North End	2,234	Minor	Local Authority	✓	✓	✓
OAM001RR	Oamaru, Reservoir Road	768	Minor	Local Authority	✓	✓	✓
OAM001SH	Oamaru, South Hill	3,933	Minor	Local Authority	✓	✓	✓
OAM001WE	Oamaru, Weston - Enfield	2,061	Minor	Local Authority	✓	✓	✓
OMA001OM	Omarama Town	270	Small	Local Authority	✓	×	✓
OTE001OT	Otematata Hydro Village	195	Small	Local Authority	✓	×	✓
OTE002OT	Otekaieke Rural	140	Small	Local Authority	×	×	✓
TOK003TL	Tokarahi/Livingstone	573	Minor	Local Authority	✓	×	✓
WAI215DU	Waihemo, Dunback Rural	229	Small	Local Authority	✓	×	✓
WAI215GO	Waihemo, Goodwood Rural	270	Small	Local Authority	✓	×	✓
WAI215PA	Waihemo, Palmerston Town	858	Minor	Local Authority	✓	×	✓
WIN004WI	Windsor	137	Small	Local Authority	✓	×	✓

**Central Otago District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
ALE001AL	Alexandra	5,000	Minor	Local Authority	✓	×	✓
ALE002BE	Bennys	104	Small	Communal	×	×	✓
CLY001CL	Clyde Township	1,000	Minor	Local Authority	✓	×	✓
CRO001BA	Bannockburn	400	Small	Local Authority	✓	×	✓
CRO001CR	Cromwell	4,000	Minor	Local Authority	✓	×	✓
EAR002EA	Earnsclough Water Scheme	120	Small	Private Other	×	×	✓
LAS003LA	Last Chance	120	Small	Communal	×	✓	✓
MIL006MI	Millers Flat	210	Small	Communal	✓	✓	✓
NAS001NA	Naseby	150	Small	Local Authority	✓	×	✓
OMA005OM	Omakau	350	Small	Local Authority	✓	×	✓
PAT003PA	Patearoa	260	Small	Local Authority	✓	×	✓
PIS001PI	Pisa Moorings	130	Small	Private Other	✓	×	✓
PIS002PI	Pisa Village	250	Small	Local Authority	✓	×	✓
RAN002RA	Ranfurlly	750	Minor	Local Authority	✓	×	✓
ROX001RO	Roxburgh	700	Minor	Local Authority	✓	×	✓

**Dunedin City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
DUN001BO	Booth Road, Dunedin	37,036	Large	Local Authority	✓	✓	✓
DUN001GI	Green Island	10,199	Large	Local Authority	✓	✓	✓
DUN001LL	Low Levels/Peninsula, Dunedin	37,726	Large	Local Authority	✓	✓	✓
DUN001MH	Maori Hill	13,785	Large	Local Authority	✓	✓	✓
DUN001PC	Port Chalmers	2,469	Minor	Local Authority	✓	×	✓
DUN001WI	Wingatui, Dunedin	1,124	Minor	Local Authority	✓	✓	✓
MOS001EA	East Taieri	300	Small	Local Authority	✓	✓	✓
MOS001KI	Kinmont	341	Small	Local Authority	✓	✓	✓
MOS001QH	Quarry Hill	9,535	Medium	Local Authority	✓	✓	✓
OUT001OU	Outram Township	750	Minor	Local Authority	✓	×	✓
WAI015WK	Waikouaiti/Karitane/Seacliff	1,642	Minor	Local Authority	✓	✓	✓
WES002WE	West Taieri Scheme	450	Small	Local Authority	✓	✓	✓

Appendix 1. Achievement against the Standards

**Clutha District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
BAL001BA	Balclutha	3,918	Minor	Local Authority	✓	×	✓
CLY005CL	Clinton Township	285	Small	Local Authority	✓	×	✓
CLY005RU	Clydevale-Pomahaka Rural	493	Small	Local Authority	✓	×	✓
GLE001GK	Glenkenich Rural	705	Minor	Local Authority	×	×	×
KAI005KA	Kaitangata Township	762	Minor	Local Authority	✓	×	✓
LAW001LT	Lawrence	417	Small	Local Authority	✓	×	✓
MIL001MT	Milton	1,929	Minor	Local Authority	✓	×	×
MIL001OC	Otago Corrections Facility	600	Minor	Local Authority	✓	×	✓
MOA001MF	Moa Flat Rural	534	Minor	Local Authority	×	×	✓
NOR003NB	North Bruce Rural	658	Minor	Local Authority	✓	×	×
NOR003WT	Waiholo Township	270	Small	Local Authority	×	×	✓
OWA001OW	Owaka	303	Small	Local Authority	✓	×	✓
RIC009KA	Kaka Point Township	222	Small	Local Authority	✓	×	✓
RIC009NO	Richardson Rural North	312	Small	Local Authority	✓	×	✓
RIC009SO	Richardson Rural South	469	Small	Local Authority	✓	×	✓
STI002SB	South Bruce Rural	305	Small	Local Authority	✓	×	✓
STI002ST	Stirling Township	303	Small	Local Authority	✓	×	✓
TAP001TA	Tapanui	726	Minor	Local Authority	✓	×	✓
TUA004TW	Tuapeka West Rural	283	Small	Local Authority	✓	×	✓
WAI016B1	Balmoral 1 Rural	247	Small	Local Authority	✓	×	✓
WAI016B2	Balmoral 2 Rural	399	Small	Local Authority	✓	×	✓
WAI016TE	Tuapeka East Rural	276	Small	Local Authority	✓	×	✓

**Queenstown Lakes District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
ARR001AR	Arrowtown	3,587	Minor	Local Authority	×	×	✓
ART001AP	Arthurs Point	1,248	Minor	Local Authority	✓	×	✓
CAM008CA	Camphill Estate	132	Small	Communal	×	×	✓
CAR005CA	Cardrona Township	300	Small	Communal	✓	×	✓
GLE003GL	Glenorchy	1,232	Minor	Local Authority	✓	×	✓
HAW002HA	Hawea	2,444	Minor	Local Authority	✓	×	✓
JAC002JA	Jacks Point	185	Small	Private Other	✓	✓	✓
LAK003ES	Lake Hayes Estate	799	Minor	Local Authority	✓	✓	✓
LAK003LH	Lake Hayes	1,697	Minor	Local Authority	✓	✓	✓
LUG001LU	Luggate	855	Minor	Local Authority	✓	×	✓
QUE001KE	Kelvin Heights	4,400	Minor	Local Authority	✓	×	✓
QUE001QU	Queenstown	15,600	Large	Local Authority	✓	×	✓
WAN002AL	Albert Town	506	Minor	Local Authority	✓	×	✓
WAN002WA	Wanaka	9,608	Medium	Local Authority	✓	×	✓
WAN007WA	Wanaka Airport	150	Small	Local Authority	×	×	✓

**Gore District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
GOR001GO	Gore	7,480	Medium	Local Authority	✓	×	✓
MAT002MA	Mataura	1,790	Minor	Local Authority	✓	×	✓
OTA004OT	Otama	300	Small	Local Authority	✓	×	✓

**Invercargill City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
INV001BL	Bluff	2,010	Minor	Local Authority	✓	×	✓
INV001IN	Invercargill City	51,696	Large	Local Authority	✓	×	✓

Appendix 1. Achievement against the Standards

**Southland District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa	Chemical
EDE001ED	Edendale	558	Minor	Local Authority	✓	✓	✓
EDE001WY	Wyndham	594	Minor	Local Authority	✓	✓	✓
LUM001BA	Lumsden/Balfour Rural	608	Minor	Local Authority	✓	✓	✓
LUM001LU	Lumsden	453	Small	Local Authority	✓	✓	✓
MAN006MA	Manapouri	228	Small	Local Authority	✓	×	✓
MIL007MI	Milford Sound	3,500	Minor	Private Other	×	×	✓
MOS002MO	Mossburn	201	Small	Local Authority	✓	✓	✓
OHA009NI	Nightcaps	306	Small	Local Authority	✓	×	✓
OHA009OH	Ohai	303	Small	Local Authority	✓	×	✓
OTA001OT	Otautau	798	Minor	Local Authority	✓	✓	✓
RIV001RI	Riverton	1,506	Minor	Local Authority	✓	×	✓
TEA002TE	Te Anau	2,628	Minor	Local Authority	✓	✓	✓
TUA001TU	Tuatapere	561	Minor	Local Authority	✓	✓	✓
WIN001WI	Winton	2,436	Minor	Local Authority	✓	✓	✓

# Appendix 2. Microbiological achievement

## KEY

Size	Population	Bacteria	Rationale
Small	101 to 500	Achieved	Achieved against the Standards
Minor	501 to 5,000	Achieved ( )	Achieved (with leniency on these factors)
Medium	5,001 to 10,000	Act	Remedial action inadequate following transgression
Large	10,001 or more	Trans	<i>Escherichia coli</i> transgressions excessive
		Monit:	Inadequate sampling (always followed by some of: Sam, DoW, Gap)
Protozoa	Meaning	Sam	Inadequate number of samples
✓	All contributing plants achieved	DoW	Sampled on too few days of the week
×	Did not achieve	Gap	Sampling exceeded the maximum number of days between samples
		Not Monit	Not monitored, or supplier did not provide monitoring data
		Review	Monitoring indicated achievement but failed after DWA review

### Whangarei District

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
BRE001BR	Bream Bay	5,280	Medium	Local Authority	Achieved	✓
MAU002MA	Maungakaramea	220	Small	Local Authority	Achieved	✓
WHA007HE	Whangarei Heads	2,450	Minor	Local Authority	Achieved	✓
WHA007HI	Hikurangi	1,400	Minor	Local Authority	Achieved	✓
WHA007WH	Whangarei	50,000	Large	Local Authority	Achieved	✓

### Far North District

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
KAI006KA	Kaikohe	4,000	Minor	Local Authority	Achieved	✓
KAI006NG	Ngawha Springs	200	Small	Local Authority	Achieved	✓
KAI008KA	Kaitiāia	5,400	Medium	Local Authority	Achieved	×
KAW002KA	Kawakawa	1,500	Minor	Local Authority	Achieved	✓
KAW002MO	Moerewa / Otiria	2,000	Minor	Local Authority	Achieved	✓
KER001KE	Kerikeri	6,200	Medium	Local Authority	Achieved	✓
KER001WA	Waipapa	500	Small	Local Authority	Achieved	✓
MAN005MA	Mangonui, Coopers Beach	2,000	Minor	Private Other	Monit: Sam, DoW, Gap	×
OKA003OK	Okaihau	800	Minor	Local Authority	Achieved	✓
OMA002OM	Omapere	900	Minor	Local Authority	Achieved	✓
PAI001HA	Haruru Falls	1,000	Minor	Local Authority	Achieved	✓
PAI001OP	Opua	1,000	Minor	Local Authority	Achieved	✓
PAI001PA	Paihia	2,000	Minor	Local Authority	Achieved	✓
PAK003PA	Pakanae	160	Small	Communal	Act Trans	×
RAW001RA	Rawene	600	Minor	Local Authority	Achieved	✓
RUS004RU	Russell Township-Commercial	200	Small	Private Other	Monit: Sam, Gap	✓
WAI045WA	Waipapa, Lock	150	Small	Private Other	Monit: Sam, Gap	×
WAI226WA	Waima Hapu Community	300	Small	Private Other	Not monit	×
WHI012WH	Whirinaki Maori Committee	250	Small	Private Other	Monit: Sam, DoW, Gap	×



Appendix 2. Microbiological achievement

**Kaipara District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
DAR002BB	Baylys Beach	228	Small	Local Authority	Achieved	×
DAR002DT	Dargaville Town	4,455	Minor	Local Authority	Achieved	×
KAI007KD	Kaihu-Dargaville	324	Small	Local Authority	Not monit	×
MAN003MA	Mangawhai Heads	200	Small	Local Authority	Achieved	×
MAU001MA	Maungaturoto	900	Minor	Local Authority	Achieved	×
RUA001RU	Ruawai	426	Small	Local Authority	Achieved	✓

**Greater Auckland (Watercare)**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
AUC003AA	Auckland Airport	4,557	Minor	Local Authority	Achieved	✓
AUC003AU	Auckland	261,638	Large	Local Authority	Achieved	✓
AUC003AZ	Anzac	3,445	Minor	Local Authority	Achieved	✓
AUC003BU	Buckland	609	Minor	Local Authority	Achieved	✓
AUC003CB	Central Business Dist.Auckland	14,590	Large	Local Authority	Achieved	✓
AUC003CL	Clarks/Waiiau Beach	1,332	Minor	Local Authority	Achieved	✓
AUC003EB	East Tamaki/Botany	36,914	Large	Local Authority	Achieved	✓
AUC003GL	Glenbrook Beach	393	Small	Local Authority	Achieved	✓
AUC003GN	Glen Eden/New Lynn	56,785	Large	Local Authority	Achieved	✓
AUC003HE	Henderson	125,916	Large	Local Authority	Achieved	✓
AUC003HH	High Head	4,000	Minor	Local Authority	Achieved	✓
AUC003HI	Hillsborough	62,355	Large	Local Authority	Achieved	✓
AUC003HO	Howick/Pakuranga	94,803	Large	Local Authority	Achieved	✓
AUC003HT	Hilltop	947	Minor	Local Authority	Achieved	✓
AUC003HV	Huia Village	597	Minor	Local Authority	Achieved	✓
AUC003HW	HBC/Waiwera	28,898	Large	Local Authority	Achieved	✓
AUC003KI	Kitchener	14,866	Large	Local Authority	Achieved	✓
AUC003LA	Laingholm	2,457	Minor	Local Authority	Achieved	✓
AUC003MA	Maungawhau	45,267	Large	Local Authority	Achieved	✓
AUC003MG	Mangere	71,629	Large	Local Authority	Achieved	✓
AUC003MO	Montana	4,615	Minor	Local Authority	Achieved	✓
AUC003MT	Mt Hobson	30,526	Large	Local Authority	Achieved	✓
AUC003MW	Manurewa	72,305	Large	Local Authority	Achieved	✓
AUC003ON	Onehunga	27,101	Large	Local Authority	Achieved	✓
AUC003OP	Otara/Papatoetoe/ Manukau Cent.	58,441	Large	Local Authority	Achieved	✓
AUC003OR	Oratia	1,596	Minor	Local Authority	Achieved	✓
AUC003OT	Otahuhu	11,083	Large	Local Authority	Achieved	✓
AUC003PT	Patumahoe	606	Minor	Local Authority	Achieved	✓
AUC003SO	North Shore Sth.	151,400	Large	Local Authority	Achieved	✓
AUC003SW	Swanson	4,540	Minor	Local Authority	Achieved	✓
AUC003TH	Te Henga	1,085	Minor	Local Authority	Achieved	✓
AUC003WE	North Shore West	71,300	Large	Local Authority	Achieved	✓
AUC003WH	Whenuapai	5,460	Medium	Local Authority	Achieved	✓
BOM003BO	Bombay	609	Minor	Local Authority	Achieved	✓
BUR004BU	Burnside Road	352	Small	Local Authority	Achieved	✓
HEL005HP	Helensville/Parakai	4,579	Minor	Local Authority	Achieved	✓
MUR011MU	Muriwai	563	Minor	Local Authority	Achieved	✓
PAP001PC	Papakura City	30,091	Large	Local Authority	Achieved	✓
PAP001RH	Red Hill	2,585	Minor	Local Authority	Achieved	✓
PAP001TA	Takanini	14,540	Large	Local Authority	Achieved	✓
SNE002SN	Snells/Algies	4,664	Minor	Local Authority	Achieved	✓
WAI214WA	Waiuku	8,697	Medium	Local Authority	Achieved	✓
WAR006WA	Warkworth	4,111	Minor	Local Authority	Achieved	✓
WEL004WE	Wellsford/Te Hana	2,114	Minor	Local Authority	Achieved	✓

<b>Non-achieve</b>	Act: Remedial action	Trans: Transgressions	Monit: Monitoring
<b>Mini Key:</b>	Sam: Sample count	DoW: Days of week	Gap: Max days between samples
	Not Monit: Not monitored/no data	Review: Non-comply after review.	



Appendix 2. Microbiological achievement

**Greater Auckland**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
BOM002BO	Bombay Motorway Services	200	Small	Private Other	Achieved	✓
BRO015BP	Broadway Park, Newmarket	1,000	Minor	Private Other	Monit: Gap	✓
HAR005HA	Haranui Whanau	499	Small	Marae	Trans	✓
KEN005KP	Kensington Park	135	Small	Private Other	Achieved	×
KIN002KH	Kingsseat Community	400	Small	Private Other	Achieved	×
MAT034MA	Matiatia Wharf	200	Small	Local Authority	Not monit	×
WAI197GL	Waiuku, Glenbrook Beach Road	200	Small	Private Other	Act Trans	✓

**Thames Coromandel District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
COR001CO	Coromandel	1,657	Minor	Local Authority	Achieved	✓
HAH001HA	Hahei, Harsant Subdivision	457	Small	Local Authority	Monit: Sam	×
HAH003PA	Hahei, Pa Road	200	Small	Private Other	Not monit	×
MAT009MA	Matatoki	150	Small	Local Authority	Not monit	×
MAT010MA	Matarangi	279	Small	Local Authority	Achieved	×
ONE002ON	Onemana	170	Small	Local Authority	Achieved	×
PAU001PA	Pauanui	747	Minor	Local Authority	Monit: Sam	×
PUR003PU	Puriri	150	Small	Local Authority	Not monit	×
TAI002TA	Tairua	1,335	Minor	Local Authority	Achieved	×
TEP007AP	Te Puru - Aputa Ave	200	Small	Local Authority	Not monit	×
THA001TK	Thames - Kopu	7,657	Medium	Local Authority	Achieved	×
WHA003WH	Whangamata	3,665	Minor	Local Authority	Monit: Sam	×
WHI001WH	Whitianga	4,115	Minor	Local Authority	Monit: Sam	×

**Hauraki District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
KAI013KA	Kaimanawa	204	Small	Local Authority	Achieved	×
KAR001KA	Karangahake	147	Small	Local Authority	Achieved	×
KER005KE	Kerepehi	1,371	Minor	Local Authority	Achieved	✓
MAC003MA	Mackaytown	174	Small	Local Authority	Achieved	×
OHI001OH	Ohinemuri	702	Minor	Local Authority	Achieved	×
PAE001PA	Paeroa	3,864	Minor	Local Authority	Achieved	×
TUR007TU	Turua	1,181	Minor	Local Authority	Achieved	*
WAI003WA	Waihi	4,623	Minor	Local Authority	Achieved	×
WAI043WA	Waikino	304	Small	Local Authority	Achieved	×
WAI201WA	Waitakaruru	2,076	Minor	Local Authority	Achieved	×

\* Turua was supplied by a treatment plant during the period that was not associated with it in the Register of Drinking-water Supplies.

**Waikato District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
HUN002HU	Huntly	7,210	Medium	Local Authority	Achieved	×
HUN002RO	Rotongaro	130	Small	Local Authority	Achieved	×
NGA002HO	Horotiu	459	Small	Local Authority	Achieved	×
NGA002NG	Ngaruawahia	5,691	Medium	Local Authority	Achieved	×
NOR013NO	North Western Dist, Waikato DC	115	Small	Local Authority	Monit: Sam, DoW, Gap	✓
POK001PO	Pokeno	1,128	Minor	Local Authority	Achieved	×
RAG001RA	Raglan	3,187	Minor	Local Authority	Achieved	×
SOU009SO	Southern Districts, Waikato DC	5,466	Medium	Local Authority	Achieved	✓
TAU002HO	Hopuhopu	200	Small	Local Authority	Achieved	×
TAU002TA	Taupiri	529	Minor	Local Authority	Achieved	×
TEK001TR	Te Kauwhata / Rangiriri	1,410	Minor	Local Authority	Achieved	×
TEK001WH	Whangamarino Rural / Meremere	739	Minor	Local Authority	Achieved	×
TUA002TN	Tuakau North	1,102	Minor	Local Authority	Achieved	×
TUA002TS	Tuakau South	4,169	Minor	Local Authority	Achieved	×

**Matamata Piako District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
MAT004MA	Matamata Township	6,309	Medium	Local Authority	Achieved	×
MAT004WA	Waharoa	634	Minor	Local Authority	Achieved (Monit: Gap)	×
MOR001MO	Morrinsville Township	6,603	Medium	Local Authority	Achieved	×
TAH001TA	Tahuna Township	120	Small	Local Authority	Achieved	×
TEA003TE	Te Aroha	3,768	Minor	Local Authority	Achieved (Monit: Gap)	×
WAI049WA	Waitoa Village & Factory	500	Small	Private Other	Achieved	×

**Hamilton City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
HAM001HA	Hamilton City	130,813	Large	Local Authority	Achieved	✓
HAM001RU	Ruakura/Ryburn Road	151	Small	Local Authority	Achieved	✓
HAM001TE	Temple View, Hamilton	1,413	Minor	Local Authority	Achieved	✓

**Waipa District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
CAM001CA	Cambridge	13,368	Large	Local Authority	Act	×
CAM001KA	Karapiro Village	132	Small	Local Authority	Achieved	×
HAM006IT	East Side Terminal	400	Small	Private Other	Achieved	×
HAM006WE	West Side Aviation Area	350	Small	Private Other	Achieved	×
KIH001KI	Kihikihi	2,000	Minor	Local Authority	Achieved	✓
PUK001OH	Ohaupo	468	Small	Local Authority	Achieved	×
PUK001PU	Pukerimu Rural	3,278	Minor	Local Authority	Achieved	×
TEA001PI	Pirongia	1,500	Minor	Local Authority	Achieved	×
TEA001TE	Te Awamutu Township	9,165	Medium	Local Authority	Achieved	×
TOK006TH	Tokanui	250	Small	Communal	Achieved	×

**Otorohanga District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
ARO001AO	Aotearoa Road, Arohena	120	Small	Local Authority	Achieved	×
ARO001MA	Mangare Road, Arohena	120	Small	Local Authority	Achieved	×
KAW001KA	Kawhia Township	390	Small	Local Authority	Achieved	×
OTO001OT	Otorohanga	2,875	Minor	Local Authority	Monit: Gap	×
TIH001TI	Tihiroa	400	Small	Local Authority	Achieved	×
WAI047WA	Waipa	175	Small	Local Authority	Achieved	×

**South Waikato District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
ARA003AR	Arapuni	300	Small	Local Authority	Achieved	×
PUT001PU	Putaruru	4,116	Minor	Local Authority	Achieved	×
TIR001TI	Tirau	700	Minor	Local Authority	Achieved	×
TOK001TO	Tokoroa	13,300	Large	Local Authority	Achieved	✓

**Waitomo District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
BEN002BE	Benneydale	280	Small	Local Authority	Achieved	×
MOK002MO	Mokau, Waitomo	200	Small	Local Authority	Monit: Gap	×
PIO001PI	Piopio	500	Small	Local Authority	Monit: Gap	×
TEK003TE	Te Kuiti	4,612	Minor	Local Authority	Monit: Sam, DoW, Gap	×
WAI012WC	Waitomo Caves	500	Small	Private Other	Achieved	×

<b>Non-achieve</b>	Act: Remedial action	Trans: Transgressions	Monit: Monitoring
<b>Mini Key:</b>	Sam: Sample count	DoW: Days of week	Gap: Max days between samples
	Not Monit: Not monitored/no data	Review: Non-comply after review.	

**Ruapehu District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
NAT001NA	National Park	240	Small	Local Authority	Achieved	×
OHA001OH	Ohakune Township	1,500	Minor	Local Authority	Achieved	×
OHU001OH	Ohura	160	Small	Local Authority	Achieved	×
OWH001OW	Owhango	200	Small	Local Authority	Achieved	×
PIR001PI	Piriaka	120	Small	Communal	Not monit	×
RAE001RA	Raetihi Township	749	Minor	Local Authority	Achieved	×
TAU003TA	Taumarunui	4,870	Minor	Local Authority	Achieved	×
WAI002WA	Waiouru Township	2,800	Minor	Governmt Other	Achieved (Monit: DoW)	×
WHA015WV	Whakapapa Village	200	Small	DOC	Monit: Sam, Gap	×

**Western Bay of Plenty District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
TEP002BA	Bayliss	200	Small	Local Authority	Trans	✓
TEP002BU	Te Puke (Bush)	200	Small	Local Authority	Achieved	✓
TEP002MA	Maketu	4,500	Minor	Local Authority	Achieved	✓
TEP002TP	Te Puke	8,000	Medium	Local Authority	Trans Monit: Gap	✓
WES011AT	Athenree	3,765	Minor	Local Authority	Achieved (Monit: Gap)	✓
WES011KA	Katikati	5,205	Medium	Local Authority	Achieved (Monit: Gap)	✓
WES013MI	Minden	1,200	Minor	Local Authority	Achieved (Monit: Gap)	✓
WES013WE	Westbay Central	4,600	Minor	Local Authority	Achieved (Monit: Gap)	✓

**Tauranga City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
BOS001EA	Boscabel Stage 1	120	Small	Communal	Monit: Sam, DoW, Gap	×
BOS001WE	Boscabel Stage 2	120	Small	Communal	Monit: Sam, DoW, Gap	×
TAU004MP	Mt Maunganui - Papamoa	52,000	Large	Local Authority	Achieved	✓
TAU004TB	Tauranga - Bethlehem	51,783	Large	Local Authority	Achieved	✓

**Whakatane District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
MAT005MA	Matata	690	Minor	Local Authority	Achieved	✓
MUR002MU	Murupara	2,060	Minor	Local Authority	Achieved	×
RAN007ED	Edgcumbe	1,430	Minor	Local Authority	Achieved	×
RAN007PR	Rangitaiki Plains Rural	2,486	Minor	Local Authority	Achieved	×
RAN007TE	Te Teko	346	Small	Local Authority	Achieved	×
RUA003RU	Ruatoki	560	Minor	Local Authority	Achieved	×
TAN001TA	Taneatua	790	Minor	Local Authority	Achieved	✓
TEM004TE	Te Mahoe	120	Small	Local Authority	Achieved	×
WAI017WA	Waimana	160	Small	Local Authority	Achieved	✓
WHA005OH	Ohope	6,000	Medium	Local Authority	Achieved	✓
WHA005WH	Whakatane	15,020	Large	Local Authority	Achieved	✓

**Kawerau District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
KAW003KA	Kawerau	6,921	Medium	Local Authority	Act Trans	×
KAW003UV	Upper Valley Road	800	Minor	Local Authority	Act Trans	×

**Opotiki District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
KAI054KA	Kaiaia Hapu	160	Small	Marae	Not monit	×
KUT003KU	Kutarere	300	Small	Communal	Not monit	×
OMA016OM	Omaio	150	Small	Private Other	Not monit	×
OPO001HI	Hikutaia, Opotiki	1,100	Minor	Local Authority	Achieved	×
OPO001OP	Opotiki Town	4,000	Minor	Local Authority	Achieved	✓
TEK004TE	Te Kaha	390	Small	Local Authority	Achieved	×

Appendix 2. Microbiological achievement

**Rotorua District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
BRU005BR	Brunswick 4	110	Small	Private Other	Not monit	×
HAM003HA	Hamurana	900	Minor	Local Authority	Achieved	✓
HAM003KA	Kaharoa	800	Minor	Local Authority	Achieved	✓
KAI009KA	Kaingaroa	400	Small	Communal	Monit: Sam, DoW, Gap	×
MAM001MA	Mamaku Township	868	Minor	Local Authority	Achieved	×
NGO001NG	Ngongotaha Township	4,826	Minor	Local Authority	Achieved	✓
REP001RE	Reporoa	1,060	Minor	Local Authority	Achieved	✓
ROT001OK	Okareka	730	Minor	Local Authority	Achieved	✓
ROT001RE	Rotorua Eastern Suburbs	9,600	Medium	Local Authority	Achieved	✓
ROT002RO	Rotoma	340	Small	Local Authority	Achieved	✓
ROT003RO	Rotorua City	42,500	Large	Local Authority	Achieved (Monit: Gap)	×
ROT004RO	Rotoiti	880	Minor	Local Authority	Achieved	✓
WAI074WA	Waipa Sawmill	300	Small	Private Other	Monit: Sam, DoW, Gap	×

**Taupo District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
ACA001AC	Acacia Bay	1,512	Minor	Local Authority	Achieved	×
ACA001MA	Mapara Road Rural	869	Minor	Local Authority	Achieved	×
ATI001AV	Atiamuri Village	134	Small	Local Authority	Achieved	×
BON001BO	Bonshaw Park	152	Small	Local Authority	Achieved	×
CEN001RR	Rakanui Road	200	Small	Local Authority	Achieved	×
HAT001HV	Hatepe Village	174	Small	Local Authority	Trans	×
KIN001KI	Kinloch Town	1,604	Minor	Local Authority	Achieved	×
MAN002MA	Mangakino	1,312	Minor	Local Authority	Achieved	×
MOT002MO	Motuoapa	739	Minor	Local Authority	Achieved	×
OMO001OM	Omori / Kuratau / Pukawa	1,783	Minor	Local Authority	Achieved	×
RIV003RI	River Rd Reporoa	197	Small	Local Authority	Achieved	×
TAU001TC	Taupo Central & West	17,105	Large	Local Authority	Achieved	×
TAU001TS	Taupo - Taupo South	6,396	Medium	Local Authority	Achieved	×
TIR002TI	Tirohanga	325	Small	Local Authority	Achieved	×
TUR001TO	Tokaanu	360	Small	Local Authority	Achieved	×
TUR001TU	Turangi	3,578	Minor	Local Authority	Achieved	×
WHA010WH	Whareroa	313	Small	Local Authority	Achieved	×
WHA011WH	Whakamaru	116	Small	Local Authority	Achieved	×

**Gisborne District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
ENI001MA	Mangahauini	130	Small	Communal	Not monit	×
GIS001GI	Gisborne City	29,600	Large	Local Authority	Achieved	×
GIS001RU	Gisborne Rural	1,000	Minor	Local Authority	Achieved	×
TEK002TE	Te Karaka	491	Small	Local Authority	Achieved	×
TEP001TE	Te Puia Springs Hosp & Village	300	Small	Health	Achieved	×
WHA004WH	Whatatutu	200	Small	Local Authority	Achieved	×

**New Plymouth District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
ING001IN	Inglewood	3,983	Minor	Local Authority	Achieved	✓
NEW002BE	Bell Block	4,820	Minor	Local Authority	Achieved	✓
NEW002LE	Lepperton	200	Small	Local Authority	Achieved	✓
NEW002NE	New Plymouth	45,420	Large	Local Authority	Achieved	✓
NEW002UR	Urenui/Tikorangi	1,030	Minor	Local Authority	Achieved	✓
NEW002WA	Waitara	7,602	Medium	Local Authority	Achieved	✓
OAK001OA	Oakura	1,625	Minor	Local Authority	Achieved	✓
OKA002OK	Okato	530	Minor	Local Authority	Achieved	✓

<b>Non-achieve</b>	Act: Remedial action	Trans: Transgressions	Monit: Monitoring
<b>Mini Key:</b>	Sam: Sample count	DoW: Days of week	Gap: Max days between samples
	Not Monit: Not monitored/no data	Review: Non-comply after review.	

**Stratford District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
MID001MI	Midhirst	200	Small	Local Authority	Achieved	✓
STR001ST	Stratford	6,773	Medium	Local Authority	Achieved	✓

**South Taranaki District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
COL005PI	Pihama	350	Small	Private Other	Monit: DoW	×
ELT001EL	Eltham	1,980	Minor	Local Authority	Achieved	×
HAW003HA	Hawera	8,550	Medium	Local Authority	Achieved	✓
HAW003NO	Normanby	850	Minor	Local Authority	Achieved	✓
HAW003OH	Ohawe Beach	210	Small	Local Authority	Achieved	✓
INA001IN	Inaha	495	Small	Local Authority	Achieved	×
OPU001OP	Opunake	1,370	Minor	Local Authority	Achieved	✓
PAT001PA	Patea	1,150	Minor	Local Authority	Achieved	✓
RAH001RA	Rahotu	115	Small	Local Authority	Achieved	✓
WAI018KA	Kaponga	370	Small	Local Authority	Achieved	✓
WAI018MA	Manaia	925	Minor	Local Authority	Achieved	✓
WAI018RU	Waimate West Rural	1,585	Minor	Local Authority	Achieved	✓
WAV001WA	Waverley	950	Minor	Local Authority	Achieved	✓

**Wairoa District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
RAU006RA	Raupunga	250	Small	Communal	Not monit	×
TUA005TU	Tuai	300	Small	Local Authority	Achieved	✓
WAI006FR	Frasertown	350	Small	Local Authority	Achieved	✓
WAI006WA	Wairoa	4,300	Minor	Local Authority	Achieved	✓

**Napier City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
BAY001BA	Bayview Township	894	Minor	Local Authority	Achieved (Monit: Gap)	✓
NAP001NA	Napier City	25,800	Large	Local Authority	Achieved	✓
NAP001TA	Taradale	24,110	Large	Local Authority	Achieved	✓

**Hastings District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
CLI001AL	Allen Lane/Ferry Rd, Clive	198	Small	Local Authority	Achieved	✓
CLI001VA	Valerie St/Tuckers Lane, Clive	362	Small	Local Authority	Achieved	✓
HAS001BP	Bridge Pa	300	Small	Local Authority	Trans	✓
HAS001EA	Hastings East	13,562	Large	Local Authority	Achieved	✓
HAS001FL	Flaxmere	11,324	Large	Local Authority	Achieved	✓
HAS001WE	Hastings West & Central	20,829	Large	Local Authority	Achieved	✓
HAU002HA	Haumoana / Te Awanga	1,900	Minor	Local Authority	Achieved	✓
HAV001HA	Havelock North	11,623	Large	Local Authority	Achieved	✓
OMA008OM	Omaha	126	Small	Local Authority	Achieved	×
PAK008PA	Paki Paki	200	Small	Local Authority	Achieved	✓
PAR025PA	Parkhill Farm	288	Small	Local Authority	Achieved	×
WAI007WA	Waimarama	260	Small	Local Authority	Achieved	×
WHA029WH	Whakatu	337	Small	Local Authority	Achieved	✓
WHI007WH	Whirinaki, Hawkes Bay	750	Minor	Local Authority	Trans	×

**Central Hawkes Bay District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
POR003PT	Porangahau Township	130	Small	Local Authority	Achieved	×
TAK001TA	Takapau Township	570	Minor	Local Authority	Monit: Gap	✓
WAI004HI	Waipukurau High Pressure Zone	3,000	Minor	Local Authority	Monit: Gap	×
WAI004LO	Waipukurau Low Pressure Zone	666	Minor	Local Authority	Monit: Gap	×
WAI005OT	Otane Township	546	Minor	Local Authority	Monit: Gap	×
WAI005WA	Waipawa Township	1,809	Minor	Local Authority	Monit: Gap	×

**Chatham Islands**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
WAI158WA	Waitangi, Chatham Is.	125	Small	Local Authority	Achieved (Monit: Sam)	×

**Wanganui District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
BRU001BR	Brunswick-Westmere	450	Small	Local Authority	Achieved	✓
FOR001FO	Fordell Township	350	Small	Local Authority	Achieved	✓
MAX001MA	Maxwell	200	Small	Local Authority	Achieved	✓
MOW001MO	Mowhanau Beach	300	Small	Local Authority	Achieved	✓
WAN001AR	Aramoho	5,000	Minor	Local Authority	Achieved	✓
WAN001EA	Wanganui East	5,000	Minor	Local Authority	Achieved	✓
WAN001WA	Wanganui City	29,000	Large	Local Authority	Achieved	✓

**Rangitikei District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
BUL001BU	Bulls Township	1,800	Minor	Local Authority	Achieved	×
HUN001HU	Hunterville Township	400	Small	Local Authority	Trans	×
MAN001MA	Mangaweka Township	180	Small	Local Authority	Trans	×
MAR001MA	Marton Township	3,750	Minor	Local Authority	Achieved	×
RAT001RA	Ratana Township	450	Small	Local Authority	Achieved	×
TAI001TA	Taihape Township	2,200	Minor	Local Authority	Achieved	×

**Manawatu District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
FEI001FE	Feilding	13,000	Large	Local Authority	Monit: Sam, Gap	×
HAL001HA	Halcombe-Stanway	430	Small	Local Authority	Achieved	×
HIM001HI	Himatangi Beach	438	Small	Local Authority	Achieved	×
KIW003KI	Kimbolton	150	Small	Communal	Monit: Sam, DoW, Gap	×
OHA002OH	Ohakea	800	Minor	Government other	Achieved	×
SAN001SA	Sanson	492	Small	Local Authority	Achieved	×
WAI022WA	Waituna West	200	Small	Local Authority	Achieved	✓

**Palmerston North City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
ASH001AS	Ashhurst	2,800	Minor	Local Authority	Achieved	✓
BUN001BU	Bunnythorpe	450	Small	Local Authority	Achieved	✓
LIN001LI	Linton	4,500	Minor	Government other	Achieved	✓
LON001LO	Longburn	240	Small	Local Authority	Achieved	✓
LON002SC	Longburn Adventist College	300	Small	Education public	Act Trans Monit: Sam, DoW, Gap	×
LON006BR	Longburn, Brandlines	150	Small	Private Other	Not monit	×
MAS001MA	Massey University	9,000	Medium	Private Other	Achieved	✓
PAL001AO	Aokautere	2,739	Minor	Local Authority	Achieved	✓
PAL001FW	Fitzherbert West	450	Small	Local Authority	Achieved	✓
PAL001KG	Kelvin Grove	5,784	Medium	Local Authority	Achieved	✓
PAL001PC	Palmerston North City	58,680	Large	Local Authority	Achieved	✓

**Taranaki District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
DAN001DA	Dannevirke	6,000	Medium	Local Authority	Trans	×
EKE001EK	Eketahuna	456	Small	Local Authority	Achieved	×
NOR002NO	Norsewood	200	Small	Local Authority	Achieved	✓
PAH001PA	Pahiatua	2,700	Minor	Local Authority	Trans	×
PLE002PL	Pleckville	200	Small	Communal	Not monit	×
PON001PO	Pongaroa	200	Small	Communal	Act Trans	×
WOO001WO	Woodville	1,500	Minor	Local Authority	Achieved	×

<b>Non-achieve</b>	Act: Remedial action	Trans: Transgressions	Monit: Monitoring
<b>Mini Key:</b>	Sam: Sample count	DoW: Days of week	Gap: Max days between samples
	Not Monit: Not monitored/no data	Review: Non-comply after review.	

**Horowhenua District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
FOX002FO	Foxton	2,700	Minor	Local Authority	Achieved	✓
FOX003FO	Foxton Beach	1,900	Minor	Local Authority	Achieved	✓
LEV001LE	Levin	20,000	Large	Local Authority	Achieved (Monit: Gap)	×
SHA001SH	Shannon	1,436	Minor	Local Authority	Achieved	✓
TOK002TO	Tokomaru	550	Minor	Local Authority	Achieved	×

**Kapiti Coast District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
HAU003HA	Hautere	700	Minor	Local Authority	Achieved	×
OTA003OT	Otaki	4,700	Minor	Local Authority	Achieved	×
OTA003WA	Waitohu	1,000	Minor	Local Authority	Achieved	×
PAE002PA	Paekakariki	1,665	Minor	Local Authority	Achieved	✓
WAI010PA	Paraparaumu/Raumati	25,200	Large	Local Authority	Achieved	✓
WAI010WA	Waikanae	10,600	Large	Local Authority	Achieved	✓

**Upper Hutt City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
UPP001PI	Pinehaven	3,090	Minor	Local Authority	Achieved	✓
UPP001UP	Upper Hutt Central	31,560	Large	Local Authority	Achieved	✓

**The Hutt City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
LOW001EA	Eastbourne	4,704	Minor	Local Authority	Achieved	✓
LOW001HA	Haywards	372	Small	Local Authority	Achieved	✓
LOW001LO	Lower Hutt	56,103	Large	Local Authority	Achieved	✓
LOW001PE	Petone	8,034	Medium	Local Authority	Achieved	✓
LOW001ST	Stokes Valley	9,198	Medium	Local Authority	Achieved	✓
LOW001WA	Wainuiomata	17,058	Large	Local Authority	Achieved	✓

**Porirua City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
JUD001JU	Judgeford	200	Small	Local Authority	Achieved	✓
POR001MA	Mana/Plimmerton/Paremata	5,184	Medium	Local Authority	Achieved	✓
POR001PH	Porirua High Level	15,398	Large	Local Authority	Achieved	✓
POR001PL	Porirua Low Level	16,924	Large	Local Authority	Achieved	✓
POR001PU	Pukerua Bay	1,656	Minor	Local Authority	Achieved	✓
POR001WH	Whitby	7,282	Medium	Local Authority	Achieved	✓

**Wellington City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
WEL002BR	Brooklyn	9,765	Medium	Local Authority	Achieved	✓
WEL002CH	Churton	4,446	Minor	Local Authority	Achieved	✓
WEL002EA	Eastern Wellington	16,815	Large	Local Authority	Achieved	✓
WEL002JO	Johnsonville	18,357	Large	Local Authority	Achieved	✓
WEL002KA	Karori	13,146	Large	Local Authority	Achieved	✓
WEL002KE	Kelburn	9,924	Medium	Local Authority	Achieved	✓
WEL002ON	Onslow	11,883	Large	Local Authority	Achieved	✓
WEL002SO	Southern Wellington	30,024	Large	Local Authority	Achieved	✓
WEL002TA	Tawa	12,903	Large	Local Authority	Achieved	✓
WEL002WA	Wadestown	6,789	Medium	Local Authority	Achieved	✓
WEL002WE	Wellington Central	31,074	Large	Local Authority	Achieved	✓



**Masterton District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
FER001FE	Fernridge	320	Small	Communal	Achieved	✓
MAS002MA	Masterton	19,000	Large	Local Authority	Achieved	✓
OPA001OP	Opaki	600	Minor	Communal	Achieved (Monit: Gap)	×
TIN002TI	Tinui	120	Small	Local Authority	Achieved (Monit: Gap)	×
WAI058WA	Wainuioru Rural Water	184	Small	Communal	Act Trans Monit: Gap	×

**Carterton District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
CAR001CA	Carterton	4,200	Minor	Local Authority	Achieved	×

**South Wairarapa District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
FEA001FE	Featherston	2,580	Minor	Local Authority	Achieved	×
GRE002GR	Greytown	1,952	Minor	Local Authority	Achieved	×
MAR003MA	Martinborough	1,505	Minor	Local Authority	Achieved	×

**Nelson City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
GLE013GL	Glenwood	150	Small	Communal	Act Trans	×
NEL001NL	Nelson	49,740	Large	Local Authority	Achieved	✓

**Tasman District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
APP002AP	Appleby Hills	250	Small	Communal	Monit: Sam, Gap	✓
CEN002CT	Central Takaka	125	Small	Communal	Not monit	×
COL007CO	Collingwood	450	Small	Local Authority	Achieved	×
DOV001DO	Dovedale Rural	450	Small	Local Authority	Trans	×
EIG001EI	Eighty Eight Valley Rural	200	Small	Local Authority	Achieved	×
HOP001HO	Hope/Brightwater	2,730	Minor	Local Authority	Achieved	×
KAI015KA	Kaiteriteri	300	Small	Local Authority	Achieved	×
LAK013LA	Lake Rotoiti	200	Small	DOC	Monit: Gap	✓
LOW006LM	Lower Moutere Scheme 2	200	Small	Communal	Not monit	×
LOW006LO	Lower Moutere Scheme 1	400	Small	Communal	Not monit	×
MOT001MO	Motueka	1,200	Minor	Local Authority	Achieved	×
MUR001MU	Murchison	490	Small	Local Authority	Achieved	×
POH001PV	Pohara	150	Small	Local Authority	Achieved	×
RED001R1	Redwoods #1	180	Small	Local Authority	Achieved	×
RED001R2	Redwoods #2	370	Small	Local Authority	Achieved	×
RIC002RI	Richmond	10,500	Large	Local Authority	Achieved	×
RIC002WI	Waimea Industrial	1,800	Minor	Local Authority	Trans	×
TAP003TA	Tapawera	400	Small	Local Authority	Achieved	×
WAI023MR	Mapua Ruby Bay	1,500	Minor	Local Authority	Achieved	×
WAK001WA	Wakefield	1,500	Minor	Local Authority	Achieved	×

**Non-achieve**

Act: Remedial action

Trans: Transgressions

Monit: Monitoring

**Mini Key:**

Sam: Sample count

DoW: Days of week

Gap: Max days between samples

Not Monit: Not monitored/no data

Review: Non-comply after review.



**Marlborough District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
BLE001BL	Blenheim	25,842	Large	Local Authority	Achieved	×
HAV002HA	Havelock	486	Small	Local Authority	Achieved	×
PIC001PI	Picton/Waikawa	4,053	Minor	Local Authority	Achieved	×
RAR001RA	Rarangi	160	Small	Communal	Achieved	×
REN001RE	Renwick	2,118	Minor	Local Authority	Achieved (Monit: Gap)	×
RIV002RI	Riverlands Industrial Estate	471	Small	Local Authority	Achieved	×
SED001DA	Dashwood Rural	243	Small	Local Authority	Trans	×
SED001SE	Seddon, Awatere Valley	945	Minor	Local Authority	Achieved	×
WAI034WA	Wairau Valley	165	Small	Local Authority	Achieved	×
WAR003WA	Ward	250	Small	Communal	Act Trans Monit: Sam, DoW, Gap	×

**Buller District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
HEC001HE	Hector	300	Small	Local Authority	Not monit	×
HEC001NG	Ngakawau	135	Small	Local Authority	Not monit	×
LIT003LI	Little Wanganui	150	Small	Local Authority	Not monit	×
PUN001PU	Punakaiki	230	Small	Local Authority	Trans	×
REE001RE	Reefton	951	Minor	Local Authority	Trans	×
WAI001WA	Waimangaroa	300	Small	Local Authority	Not monit	×
WES001CA	Carters Beach	357	Small	Local Authority	Achieved	×
WES001WE	Westport	4,617	Minor	Local Authority	Trans	×

**Grey District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
BLA001BL	Blackball	481	Small	Local Authority	Achieved	✓
GRE001CO	Cobden	2,000	Minor	Local Authority	Achieved	×
GRE001GM	Greymouth	7,183	Medium	Local Authority	Achieved	×
RUN001RA	Rapahoe	102	Small	Local Authority	Achieved	×
RUN001RU	Runanga	1,337	Minor	Local Authority	Trans	×
STI001ST	Stillwater	122	Small	Local Authority	Achieved	×
TAY001DO	Dobson	464	Small	Local Authority	Trans	×
TAY001TA	Taylorville	198	Small	Local Authority	Achieved	×

**Westland District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
FOX001FO	Fox Glacier	252	Small	Local Authority	Achieved	×
FRA001FR	Franz Josef	330	Small	Local Authority	Trans	×
HAR001HA	Harihari	348	Small	Local Authority	Achieved	✓
HOK001HO	Hokitika	3,537	Minor	Local Authority	Achieved	×
KUM001KU	Kumara	318	Small	Local Authority	Trans	×
ROS001RO	Ross Township	291	Small	Local Authority	Achieved	×
WHA002WH	Whataroa	405	Small	Local Authority	Achieved	×

**Kaikoura District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
FER003FE	Fernleigh Rural Water Supply	150	Small	Local Authority	Trans	×
KAI004KU	Kaikoura Urban	2,500	Minor	Local Authority	Achieved	✓
KAI021EA	Kaikoura East Coast Rural	150	Small	Local Authority	Achieved	×
KEK001RE	Kekerengu Restaurant	300	Small	Communal	Not monit	×
KIN003KI	Kincaid Rural Water Supply	120	Small	Local Authority	Trans	✓
OAR001OA	Oaro	400	Small	Local Authority	Achieved	✓
OCE002OC	Ocean Ridge	500	Small	Local Authority	Monit: Sam, DoW, Gap	×

Appendix 2. Microbiological achievement

**Hurunui District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
AMB001AT	Amberley Town	1,200	Minor	Local Authority	Achieved	✓
AMB004BE	Amberley Beach	480	Small	Local Authority	Achieved	×
AMB004BR	Broomfield	150	Small	Local Authority	Achieved	×
AMU001RO	Rotherham Township and Rural	400	Small	Local Authority	Achieved	×
ASH002AS	Ashley/Sefton/Loburn	2,750	Minor	Local Authority	Achieved	×
ASH002LE	Leithfield	500	Small	Local Authority	Monit: Sam	×
BAL003BA	Balmoral Rural Water Supply	200	Small	Local Authority	Achieved	×
CHE001CT	Cheviot Town	1,340	Minor	Local Authority	Trans	×
CHE001GO	Gore Bay/Port Robinson Rural	300	Small	Local Authority	Trans	×
CUL001CU	Culverden	420	Small	Local Authority	Achieved	×
HAN001HA	Hanmer Town	1,500	Minor	Local Authority	Achieved (Monit: Gap)	×
HAW001HW	Hawarden/Waikari	1,100	Minor	Local Authority	Achieved (Monit: Sam, Gap)	×
KAI039KA	Kaiwara	162	Small	Local Authority	Achieved	×
KAR005KA	Lower Waitohi	300	Small	Local Authority	Achieved	×
LEI004LE	Leithfield Beach	150	Small	Local Authority	Achieved	×
MOT016MO	Motunau, Greta, Scargill	600	Minor	Local Authority	Achieved	×
PAR009PA	Parnassus Rural	160	Small	Local Authority	Achieved	×
WAI026WT	Waiau Township	420	Small	Local Authority	Achieved	×
WAI066UP	Waitohi Upper, Waipara	400	Small	Local Authority	Achieved	×
WAI067WA	Waiau Rural	240	Small	Local Authority	Achieved	×
WAI068WA	Waipara Township	300	Small	Local Authority	Achieved	×

**Waimakariri District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
CUS001CU	Cust	350	Small	Local Authority	Achieved	×
FER002FE	Fernside	215	Small	Local Authority	Achieved	×
GAR001GA	Garrymere	105	Small	Local Authority	Achieved	×
KAI003KA	Kaiapoi	11,315	Large	Local Authority	Achieved	✓
MAN009MA	Mandeville	1,843	Minor	Local Authority	Achieved	×
OHO001OH	Ohoka	262	Small	Local Authority	Achieved	×
OXF101OX	Oxford Rural No1	1,247	Minor	Local Authority	Achieved	×
OXF102OR	Oxford Rural No2	797	Minor	Local Authority	Achieved	×
OXF103OX	Oxford Urban	2,133	Minor	Local Authority	Achieved	✓
PEG001PE	Pegasus	2,975	Minor	Local Authority	Achieved	✓
PIN001PK	Pines/Kairaki	452	Small	Local Authority	Achieved	×
POY001PO	Poyntz Road	212	Small	Local Authority	Achieved	×
RAN001RA	Rangiora	17,605	Large	Local Authority	Achieved	✓
WAI011KI	Waikuku Beach	1,036	Minor	Local Authority	Achieved	×
WES004SU	Summerhill	480	Small	Local Authority	Achieved	✓
WES004WE	West Eyreton	122	Small	Local Authority	Achieved	✓
WOO002WO	Woodend Town	3,265	Minor	Local Authority	Achieved	✓

<b>Non-achieve</b>	Act: Remedial action	Trans: Transgressions	Monit: Monitoring
<b>Mini Key:</b>	Sam: Sample count	DoW: Days of week	Gap: Max days between samples
	Not Monit: Not monitored/no data	Review: Non-comply after review.	

Appendix 2. Microbiological achievement

**Christchurch City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
AKA001AY	Aylmers	900	Minor	Local Authority	Achieved	×
AKA001LA	L'Aube Hill	450	Small	Local Authority	Achieved	×
BIR001BI	Birdlings Flat	150	Small	Local Authority	Achieved	×
BRO012BR	Brooklands / Kainga	1,600	Minor	Local Authority	Achieved (Monit: Gap)	✓
CHR001CE	Central Christchurch	185,000	Large	Local Authority	Achieved	✓
CHR001PA	Parklands	16,000	Large	Local Authority	Achieved	✓
CHR001RI	Riccarton	10,000	Medium	Local Authority	Achieved	✓
CHR001RP	Rocky Point	2,500	Minor	Local Authority	Achieved	✓
CHR001WE	West Christchurch	42,000	Large	Local Authority	Achieved	✓
DUV001DU	Duvauchelle	250	Small	Local Authority	Achieved	×
LIT001LI	Little River	240	Small	Local Authority	Achieved	×
LYT001DI	Diamond Harbour	1,200	Minor	Local Authority	Achieved	✓
LYT001GO	Governors Bay	750	Minor	Local Authority	Achieved	✓
LYT001LY	Lyttelton	2,500	Minor	Local Authority	Achieved	✓
NOR012CH	Northwest Christchurch	80,000	Large	Local Authority	Achieved	×
OKA010OK	Okains Bay	105	Small	Communal	Not monit	×
TAK002TA	Takamatua	150	Small	Local Authority	Achieved	×
WAI138WA	Wainui	200	Small	Local Authority	Achieved	✓
WAT006WB	Waterloo Business Pk, Stage 1	1,300	Minor	Private Other	Not monit	×

**Selwyn District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
ART002AR	Arthurs Pass	350	Small	Local Authority	Achieved	×
CAS003CA	Castle Hill	299	Small	Local Authority	Monit: Gap	×
CLA005CL	Claremont	170	Small	Local Authority	Achieved	×
DAR001DA	Darfield	3,283	Minor	Local Authority	Achieved	✓
DUN008DU	Dunsandel & Sherwood Estate	480	Small	Local Authority	Achieved	×
EDE002ED	Edendale, Sandy Knolls	180	Small	Local Authority	Achieved	×
JOH001JO	Johnson Rd, West Melton	160	Small	Local Authority	Achieved	×
JOW001JO	Jowers Rd West Melton	160	Small	Local Authority	Achieved	×
KIR001KI	Kirwee	1,100	Minor	Local Authority	Achieved	✓
LAK007LA	Lake Coleridge	148	Small	Local Authority	Monit: Sam, Gap	×
LEE001LE	Leeston	2,350	Minor	Local Authority	Achieved	×
LIN002LI	Lincoln	3,670	Minor	Local Authority	Achieved	×
MAL001DA	Dalethorpe	183	Small	Local Authority	Achieved	×
MAL001MA	Malvern Hills, Hartleys Rd	1,409	Minor	Local Authority	Achieved (Monit: DoW)	×
PRE001PR	Prebbleton	2,920	Minor	Local Authority	Achieved	×
RAK003RA	Rakaia Huts	313	Small	Local Authority	Achieved	✓
ROL001RO	Rolleston	9,530	Medium	Local Authority	Achieved	×
SEL001AC	Acheron	240	Small	Local Authority	Achieved	×
SEL001HO	Hororata	920	Minor	Local Authority	Achieved	×
SHE004SH	Sheffield/Waddington	585	Minor	Local Authority	Achieved	×
SOU001SO	Southbridge	992	Minor	Local Authority	Achieved	×
SPR002SP	Springfield	520	Minor	Local Authority	Achieved	×
SPR003SP	Springston	510	Minor	Local Authority	Trans	×
TAI009TA	Tai Tapu	606	Minor	Local Authority	Trans	×
WES010WE	West Melton	1,300	Minor	Local Authority	Achieved (Monit: DoW)	×

Appendix 2. Microbiological achievement

**Ashburton District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
ASH003AS	Ashburton	18,500	Large	Local Authority	Achieved	✓
CHE002CH	Chertsey	230	Small	Local Authority	Achieved	✓
FAI001FA	Fairton	210	Small	Local Authority	Achieved	✓
HAK001HH	Hakatere Upper	110	Small	Local Authority	Achieved	×
HIG002HI	Highbank Society Water Supply	220	Small	Communal	Not monit	×
HIN001HI	Hinds	340	Small	Local Authority	Achieved	✓
LAK022LA	Lake Hood	300	Small	Local Authority	Achieved	×
LYN002LY	Lyndhurst	200	Small	Private Other	Not monit	✓
MAY001MA	Mayfield	160	Small	Local Authority	Achieved	✓
MET001ME	Methven	1,700	Minor	Local Authority	Achieved	×
MET002MS	Methven/Springfield	180	Small	Local Authority	Achieved	×
MTS001MS	Mt Somers Township	260	Small	Local Authority	Achieved	×
RAK001RA	Rakaia Township	1,100	Minor	Local Authority	Achieved	✓

**Timaru District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
ARO002AO	Arowhenua	215	Small	Private Other	Not monit	✓
DOW001ST	Sutherlands/Taiko	3,000	Minor	Local Authority	Achieved	×
DOW001WR	Waimate Rural	360	Small	Local Authority	Achieved	×
DOW001WT	Waitohi/Totara Valley	700	Minor	Local Authority	Achieved	×
GER001GE	Geraldine	2,433	Minor	Local Authority	Achieved	✓
HAD001HA	Hadlow	312	Small	Local Authority	Achieved	×
PAR002PA	Pareora	427	Small	Local Authority	Achieved	✓
PEE001PF	Peel Forest	130	Small	Local Authority	Achieved	×
PLE001PP	Pleasant Point	1,282	Minor	Local Authority	Achieved	✓
SEA001SE	Seadown	896	Minor	Local Authority	Achieved	✓
STA004ST	St Andrews	304	Small	Local Authority	Achieved	×
TEM001OR	Orari	170	Small	Local Authority	Achieved	✓
TEM001TE	Temuka	4,200	Minor	Local Authority	Achieved	✓
TEM002GD	Geraldine Downs	324	Small	Local Authority	Achieved	×
TEM002GF	Geraldine Flat	180	Small	Local Authority	Achieved	×
TEM002TE	Te Moana	710	Minor	Local Authority	Achieved	×
TIM001GL	Gleniti	3,400	Minor	Local Authority	Achieved	×
TIM001TI	Timaru	22,620	Large	Local Authority	Achieved	×
WIN002WI	Winchester	250	Small	Local Authority	Achieved	×

**Mackenzie District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
ALB001AL	Albury Rural	125	Small	Communal	Act Trans Monit: Sam, DoW, Gap	×
ALL001AL	Allandale	291	Small	Local Authority	Trans Monit: DoW	×
FAI002FA	Fairlie	693	Minor	Local Authority	Monit: Sam, DoW, Gap	×
FAI002KI	Kimbell	150	Small	Local Authority	Monit: DoW, Gap	×
MTC001MT	Mt Cook	200	Small	DOC	Trans	✓
TEK005TE	Tekapo	369	Small	Local Authority	Monit: DoW, Gap	×
TWI001TW	Twizel	1,137	Minor	Local Authority	Monit: DoW, Gap	×

<b>Non-achieve</b>	Act: Remedial action	Trans: Transgressions	Monit: Monitoring
<b>Mini Key:</b>	Sam: Sample count	DoW: Days of week	Gap: Max days between samples
	Not Monit: Not monitored/no data	Review: Non-comply after review.	

Appendix 2. Microbiological achievement

**Waimate District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
CAN001CM	Cannington/Motukaika	120	Small	Local Authority	Trans	×
HAK002HA	Hakataramea	165	Small	Communal	Not monit	×
HOO001HW	Hook/Waituna	1,350	Minor	Local Authority	Trans	×
LOW002LO	Lower Waihao	600	Minor	Local Authority	Achieved	×
OTA005OM	Otaio/Makikihi	430	Small	Local Authority	Achieved	✓
WAI031WA	Waihaorunga	141	Small	Local Authority	Trans	×
WAI032WA	Waikakahi	360	Small	Local Authority	Achieved	×
WAI033WA	Waimate	3,000	Minor	Local Authority	Achieved	✓

**Waitaki District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
AWA001AW	Awamoko	399	Small	Local Authority	Achieved	×
HAM002HA	Hampden	237	Small	Local Authority	Achieved (Monit: Gap)	×
HAM002MO	Moeraki	264	Small	Local Authority	Achieved	×
HER001HE	Herbert	670	Minor	Local Authority	Achieved (Monit: Sam)	×
KAU001KA	Kauru Hill	197	Small	Local Authority	Trans	×
KUR001KU	Kurow Township	330	Small	Local Authority	Trans	✓
LOW004LO	Lower Waitaki	778	Minor	Local Authority	Achieved	✓
MAH001MA	Maheno	152	Small	Communal	Achieved	✓
OAM001AR	Oamaru, Ardgowan	252	Small	Local Authority	Achieved	✓
OAM001CE	Oamaru, Central	4,622	Minor	Local Authority	Achieved	✓
OAM001KA	Oamaru, Kakanui	520	Minor	Local Authority	Achieved	✓
OAM001NE	Oamaru, North End	2,234	Minor	Local Authority	Achieved	✓
OAM001RR	Oamaru, Reservoir Road	768	Minor	Local Authority	Achieved (Monit: Gap)	✓
OAM001SH	Oamaru, South Hill	3,933	Minor	Local Authority	Achieved (Monit: Gap)	✓
OAM001WE	Oamaru, Weston - Enfield	2,061	Minor	Local Authority	Achieved	✓
OMA001OM	Omarama Town	270	Small	Local Authority	Achieved	×
OTE001OT	Otematata Hydro Village	195	Small	Local Authority	Achieved	×
OTE002OT	Otekaieke Rural	140	Small	Local Authority	Act Trans Monit: Sam	×
TOK003TL	Tokarahi/Livingstone	573	Minor	Local Authority	Achieved	×
WAI215DU	Waihemo, Dunback Rural	229	Small	Local Authority	Achieved	×
WAI215GO	Waihemo, Goodwood Rural	270	Small	Local Authority	Achieved	×
WAI215PA	Waihemo, Palmerston Town	858	Minor	Local Authority	Achieved	×
WIN004WI	Windsor	137	Small	Local Authority	Achieved	×

**Central Otago District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
ALE001AL	Alexandra	5,000	Minor	Local Authority	Achieved	×
ALE002BE	Bennys	104	Small	Communal	Not monit	×
CLY001CL	Clyde Township	1,000	Minor	Local Authority	Achieved	×
CRO001BA	Bannockburn	400	Small	Local Authority	Achieved	×
CRO001CR	Cromwell	4,000	Minor	Local Authority	Achieved	×
EAR002EA	Earnsclough Water Scheme	120	Small	Private Other	Not monit	×
LAS003LA	Last Chance	120	Small	Communal	Not monit	✓
MIL006MI	Millers Flat	210	Small	Communal	Achieved	✓
NAS001NA	Naseby	150	Small	Local Authority	Achieved	×
OMA005OM	Omakau	350	Small	Local Authority	Achieved	×
PAT003PA	Patearoa	260	Small	Local Authority	Achieved	×
PIS001PI	Pisa Moorings	130	Small	Private Other	Achieved	×
PIS002PI	Pisa Village	250	Small	Local Authority	Achieved	×
RAN002RA	Ranfurlly	750	Minor	Local Authority	Achieved	×
ROX001RO	Roxburgh	700	Minor	Local Authority	Achieved	×

Appendix 2. Microbiological achievement

**Dunedin City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
DUN001BO	Booth Road, Dunedin	37,036	Large	Local Authority	Achieved	✓
DUN001GI	Green Island	10,199	Large	Local Authority	Achieved	✓
DUN001LL	Low Levels/Peninsula, Dunedin	37,726	Large	Local Authority	Achieved	✓
DUN001MH	Maori Hill	13,785	Large	Local Authority	Achieved	✓
DUN001PC	Port Chalmers	2,469	Minor	Local Authority	Achieved	×
DUN001WI	Wingatui, Dunedin	1,124	Minor	Local Authority	Achieved	✓
MOS001EA	East Taieri	300	Small	Local Authority	Achieved	✓
MOS001KI	Kinmont	341	Small	Local Authority	Achieved	✓
MOS001QH	Quarry Hill	9,535	Medium	Local Authority	Achieved	✓
OUT001OU	Outram Township	750	Minor	Local Authority	Achieved	×
WAI015WK	Waikouaiti/Karitane/Seacliff	1,642	Minor	Local Authority	Achieved	✓
WES002WE	West Taieri Scheme	450	Small	Local Authority	Achieved	✓

**Clutha District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
BAL001BA	Balclutha	3,918	Minor	Local Authority	Achieved	×
CLY005CL	Clinton Township	285	Small	Local Authority	Achieved	×
CLY005RU	Clydevale-Pomahaka Rural	493	Small	Local Authority	Achieved	×
GLE001GK	Glenkenich Rural	705	Minor	Local Authority	Monit: Sam, Gap	×
KAI005KA	Kaitangata Township	762	Minor	Local Authority	Achieved	×
LAW001LT	Lawrence	417	Small	Local Authority	Achieved	×
MIL001MT	Milton	1,929	Minor	Local Authority	Achieved	×
MIL001OC	Otago Corrections Facility	600	Minor	Local Authority	Achieved	×
MOA001MF	Moa Flat Rural	534	Minor	Local Authority	Monit: Sam, Gap	×
NOR003NB	North Bruce Rural	658	Minor	Local Authority	Achieved	×
NOR003WT	Waiholo Township	270	Small	Local Authority	Trans	×
OWA001OW	Owaka	303	Small	Local Authority	Achieved	×
RIC009KA	Kaka Point Township	222	Small	Local Authority	Achieved	×
RIC009NO	Richardson Rural North	312	Small	Local Authority	Achieved	×
RIC009SO	Richardson Rural South	469	Small	Local Authority	Achieved	×
STI002SB	South Bruce Rural	305	Small	Local Authority	Achieved	×
STI002ST	Stirling Township	303	Small	Local Authority	Achieved	×
TAP001TA	Tapanui	726	Minor	Local Authority	Achieved	×
TUA004TW	Tuapeka West Rural	283	Small	Local Authority	Achieved	×
WAI016B1	Balmoral 1 Rural	247	Small	Local Authority	Achieved	×
WAI016B2	Balmoral 2 Rural	399	Small	Local Authority	Achieved	×
WAI016TE	Tuapeka East Rural	276	Small	Local Authority	Achieved	×

<b>Non-achieve</b>	Act: Remedial action	Trans: Transgressions	Monit: Monitoring
<b>Mini Key:</b>	Sam: Sample count	DoW: Days of week	Gap: Max days between samples
	Not Monit: Not monitored/no data	Review: Non-comply after review.	

**Queenstown Lakes District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
ARR001AR	Arrowtown	3,587	Minor	Local Authority	Trans	×
ART001AP	Arthurs Point	1,248	Minor	Local Authority	Achieved	×
CAM008CA	Camphill Estate	132	Small	Communal	Not monit	×
CAR005CA	Cardrona Township	300	Small	Communal	Achieved	×
GLE003GL	Glenorchy	1,232	Minor	Local Authority	Achieved	×
HAW002HA	Hawea	2,444	Minor	Local Authority	Achieved	×
JAC002JA	Jacks Point	185	Small	Private Other	Achieved	✓
LAK003ES	Lake Hayes Estate	799	Minor	Local Authority	Achieved	✓
LAK003LH	Lake Hayes	1,697	Minor	Local Authority	Achieved	✓
LUG001LU	Luggate	855	Minor	Local Authority	Achieved	×
QUE001KE	Kelvin Heights	4,400	Minor	Local Authority	Achieved	×
QUE001QU	Queenstown	15,600	Large	Local Authority	Achieved (Monit: DoW, Gap)	×
WAN002AL	Albert Town	506	Minor	Local Authority	Achieved (Monit: Sam, Gap)	×
WAN002WA	Wanaka	9,608	Medium	Local Authority	Achieved	×
WAN007WA	Wanaka Airport	150	Small	Local Authority	Trans	×

**Gore District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
GOR001GO	Gore	7,480	Medium	Local Authority	Achieved	×
MAT002MA	Mataura	1,790	Minor	Local Authority	Achieved	×
OTA004OT	Otama	300	Small	Local Authority	Achieved	×

**Invercargill City**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
INV001BL	Bluff	2,010	Minor	Local Authority	Achieved	×
INV001IN	Invercargill City	51,696	Large	Local Authority	Achieved	×

**Southland District**

Zone Code	Distribution Zone	Population	Size	Type	Bacteria	Protozoa
EDE001ED	Edendale	558	Minor	Local Authority	Achieved	✓
EDE001WY	Wyndham	594	Minor	Local Authority	Achieved	✓
LUM001BA	Lumsden/Balfour Rural	608	Minor	Local Authority	Achieved	✓
LUM001LU	Lumsden	453	Small	Local Authority	Achieved	✓
MAN006MA	Manapouri	228	Small	Local Authority	Achieved	×
MIL007MI	Milford Sound	3,500	Minor	Private Other	Not monit	×
MOS002MO	Mossburn	201	Small	Local Authority	Achieved	✓
OHA009NI	Nightcaps	306	Small	Local Authority	Achieved	×
OHA009OH	Ohai	303	Small	Local Authority	Achieved	×
OTA001OT	Otautau	798	Minor	Local Authority	Achieved	✓
RIV001RI	Riverton	1,506	Minor	Local Authority	Achieved	×
TEA002TE	Te Anau	2,628	Minor	Local Authority	Achieved	✓
TUA001TU	Tuatapere	561	Minor	Local Authority	Achieved	✓
WIN001WI	Winton	2,436	Minor	Local Authority	Achieved	✓

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# Appendix 3. Chemical achievement

## KEY

Size	Population	Column	Meaning	Other Chemical	Meaning
Small	101 to 500	Chemical	Chemical achievement against Standards	B	Boron
Minor	501 to 5,000	As	Arsenic	Cd	Cadmium
Medium	5,001 to 10,000	F	Fluoride	CHBCl2	Bromodichloromethane
Large	10,001 or more	HAA	Haloacetic acids	ClO3	Chlorate
<b>Plumbosolvency</b>	<b>Meaning</b>	NO3	Nitrate	Cu	Copper
Notified	Plumbosolvency warning notified to ratepayers	Pb	Lead	DCAA	Dichloroacetic acid
Exempt	Small population, so exempt from warning requirement	TCAA	Trichloroacetic acid	Mn	Manganese
Not plumbo	Supply demonstrated to be non-plumbosolvent	THM	Trihalomethanes	Ni	Nickel
X	Supply assumed plumbosolvent, but ratepayers not notified			NOx	Nitrate and nitrite
<b>Symbol</b>	<b>Meaning</b>			Sb	Antimony
.	Priority 2 determinand not assigned				
✓	Zone or contributing plants achieved for allocated determinand				
×	Did not achieve				
×T	Did not achieve, and has transgressions				

## Whangarei District

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
BRE001BR	Bream Bay	5,280	Medium	Local Authority	✓	.	.	✓	.	.	.	✓	CHBCl2✓	Notified
MAU002MA	Maungakaramea	220	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WHA007HE	Whangarei Heads	2,450	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WHA007HI	Hikurangi	1,400	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WHA007WH	Whangarei	50,000	Large	Local Authority	✓	.	.	.	.	.	.	✓	.	Notified

Appendix 3. Chemical achievement

**Far North District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
KAI006KA	Kaikohe	4,000	Minor	Local Authority	✓	.	.	.	.	.	.	✓	.	X
KAI006NG	Ngawha Springs	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
KAI008KA	Kaitaia	5,400	Medium	Local Authority	✓	.	.	.	.	.	.	✓	.	X
KAW002KA	Kawakawa	1,500	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
KAW002MO	Moerewa / Otiria	2,000	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
KER001KE	Kerikeri	6,200	Medium	Local Authority	✓	.	.	.	.	.	.	.	.	X
KER001WA	Waipapa	500	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
MAN005MA	Mangonui, Coopers Beach	2,000	Minor	Private Other	✓	.	.	.	.	.	.	.	.	X
OKA003OK	Okaihau	800	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
OMA002OM	Omapere	900	Minor	Local Authority	✓	.	.	.	.	.	.	✓	.	X
PAI001HA	Haruru Falls	1,000	Minor	Local Authority	✓	.	.	.	.	.	.	✓	.	X
PAI001OP	Opua	1,000	Minor	Local Authority	✓	.	.	.	.	.	.	✓	.	X
PAI001PA	Paihia	2,000	Minor	Local Authority	✓	.	.	.	.	.	.	✓	CHBCI2✓	X
PAK003PA	Pakanae	160	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
RAW001RA	Rawene	600	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
RUS004RU	Russell Township-Commercial	200	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt
WAI045WA	Waipapa, Lock	150	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt
WAI226WA	Waima Hapu Community	300	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt
WHI012WH	Whirinaki Maori Committee	250	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt

**Kaipara District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
DAR002BB	Baylys Beach	228	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
DAR002DT	Dargaville Town	4,455	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
KAI007KD	Kaihu-Dargaville	324	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
MAN003MA	Mangawhai Heads	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
MAU001MA	Maungaturoto	900	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
RUA001RU	Ruawai	426	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt

<b>Chemicals Mini Key</b>	As Arsenic	CHBCI2 Bromodichloromethane	DCAA Dichloroacetic acid	Mn Manganese	NOx Nitrate and nitrite	TCAA Trichloroacetic acid
	B Boron	ClO3 Chlorate	F Fluoride	Ni Nickel	Pb Lead	THM Trihalomethanes
	Cd Cadmium	Cu Copper	HAA Haloacetic acids	NO3 Nitrate	Sb Antimony	

Appendix 3. Chemical achievement

**Greater Auckland (Watercare)**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
AUC003AA	Auckland Airport	4,557	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Not plumbo
AUC003AU	Auckland	261,638	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003AZ	Anzac	3,445	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003BU	Buckland	609	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003CB	Central Business Dist.Auckland	14,590	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003CL	Clarks/Waiiau Beach	1,332	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003EB	East Tamaki/Botany	36,914	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Not plumbo
AUC003GL	Glenbrook Beach	393	Small	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003GN	Glen Eden/New Lynn	56,785	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003HE	Henderson	125,916	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003HH	High Head	4,000	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Not plumbo
AUC003HI	Hillsborough	62,355	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003HO	Howick/Pakuranga	94,803	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Not plumbo
AUC003HT	Hilltop	947	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003HV	Huia Village	597	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
AUC003HW	HBC/Waiwera	28,898	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003KI	Kitchener	14,866	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003LA	Laingholm	2,457	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003MA	Maungawhau	45,267	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003MG	Mangere	71,629	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Not plumbo
AUC003MO	Montana	4,615	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003MT	Mt Hobson	30,526	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003MW	Manurewa	72,305	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Not plumbo
AUC003ON	Onehunga	27,101	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
AUC003OP	Otara/Papatoetoe/Manukau Cent.	58,441	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Not plumbo
AUC003OR	Oratia	1,596	Minor	Local Authority	✓	.	✓	.	.	.	.	✓	.	Notified
AUC003OT	Otahuhu	11,083	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003PT	Patumahoe	606	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003SO	North Shore Sth.	151,400	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003SW	Swanson	4,540	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003TH	Te Henga	1,085	Minor	Local Authority	✓	.	✓	.	.	.	.	✓	.	Notified
AUC003WE	North Shore West	71,300	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
AUC003WH	Whenuapai	5,460	Medium	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
BOM003BO	Bombay	609	Minor	Local Authority	✓	.	.	.	✓	.	.	.	.	Notified
BUR004BU	Burnside Road	352	Small	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
HEL005HP	Helensville/Parakai	4,579	Minor	Local Authority	X	.	.	.	.	.	.	X	T	Notified
MUR011MU	Muriwai	563	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

Appendix 3. Chemical achievement

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
PAP001PC	Papakura City	30,091	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
PAP001RH	Red Hill	2,585	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
PAP001TA	Takanini	14,540	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
SNE002SN	Snells/Algies	4,664	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI214WA	Waiuku	8,697	Medium	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAR006WA	Warkworth	4,111	Minor	Local Authority	×	.	.	.	.	.	.	×T	.	Notified
WEL004WE	Wellsford/Te Hana	2,114	Minor	Local Authority	✓	.	.	.	.	.	.	✓	.	Notified

**Greater Auckland**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
BOM002BO	Bombay Motorway Services	200	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt
BRO015BP	Broadway Park, Newmarket	1,000	Minor	Private Other	✓	.	✓	.	.	.	.	.	.	X
HAR005HA	Haranui Whanau	499	Small	Marae	✓	.	.	.	.	.	.	.	.	Exempt
KEN005KP	Kensington Park	135	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt
KIN002KH	Kingseat Community	400	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt
MAT034MA	Matiatia Wharf	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
WAI197GL	Waiuku, Glenbrook Beach Road	200	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt

**Thames Coromandel District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
COR001CO	Coromandel	1,657	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HAH001HA	Hahei, Harsant Subdivision	457	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HAH003PA	Hahei, Pa Road	200	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt
MAT009MA	Matatoki	150	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MAT010MA	Matarangi	279	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
ONE002ON	Onemana	170	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PAU001PA	Pauanui	747	Minor	Local Authority	×	×T	.	.	.	.	.	.	.	Notified
PUR003PU	Puriri	150	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TAI002TA	Tairua	1,335	Minor	Local Authority	✓	.	.	✓	.	.	.	✓	.	Notified
TEP007AP	Te Puru - Aputa Ave	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
THA001TK	Thames - Kopu	7,657	Medium	Local Authority	×	.	×	.	.	.	.	.	.	Notified
WHA003WH	Whangamata	3,665	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WHI001WH	Whitianga	4,115	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

<b>Chemicals Mini Key</b>	As Arsenic	CHBCl2 Bromodichloromethane	DCAA Dichloroacetic acid	Mn Manganese	NOx Nitrate and nitrite	TCAA Trichloroacetic acid
	B Boron	ClO3 Chlorate	F Fluoride	Ni Nickel	Pb Lead	THM Trihalomethanes
	Cd Cadmium	Cu Copper	HAA Haloacetic acids	NO3 Nitrate	Sb Antimony	



Appendix 3. Chemical achievement

**Hauraki District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
KAI013KA	Kaimanawa	204	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
KAR001KA	Karangahake	147	Small	Local Authority	✓	✓	.	.	.	.	.	.	.	Notified
KER005KE	Kerepehi	1,371	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MAC003MA	Mackaytown	174	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OHI001OH	Ohinemuri	702	Minor	Local Authority	✓	.	.	✓	.	.	.	.	.	Notified
PAE001PA	Paeroa	3,864	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TUR007TU	Turua	1,181	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI003WA	Waihi	4,623	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI043WA	Waikino	304	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI201WA	Waitakaruru	2,076	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Waikato District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
HUN002HU	Huntly	7,210	Medium	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
HUN002RO	Rotongaro	130	Small	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
NGA002HO	Horotiu	459	Small	Local Authority	X	.	XT	.	.	.	.	.	.	Notified
NGA002NG	Ngaruawahia	5,691	Medium	Local Authority	X	.	XT	.	.	.	.	.	.	Notified
NOR013NO	North Western Dist, Waikato DC	115	Small	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
POK001PO	Pokeno	1,128	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RAG001RA	Raglan	3,187	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
SOU009SO	Southern Districts, Waikato DC	5,466	Medium	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
TAU002HO	Hopuhopu	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TAU002TA	Taupiri	529	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TEK001TR	Te Kauwhata / Rangiriri	1,410	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
TEK001WH	Whangamarino Rural / Meremere	739	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
TUA002TN	Tuakau North	1,102	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TUA002TS	Tuakau South	4,169	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Matamata Piako District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
MAT004MA	Matamata Township	6,309	Medium	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MAT004WA	Waharoa	634	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MOR001MO	Morrinsville Township	6,603	Medium	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TAH001TA	Tahuna Township	120	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

<b>Chemicals Mini Key</b>	As Arsenic	CHBCl2 Bromodichloromethane	DCAA Dichloroacetic acid	Mn Manganese	NOx Nitrate and nitrite	TCAA Trichloroacetic acid
	B Boron	ClO3 Chlorate	F Fluoride	Ni Nickel	Pb Lead	THM Trihalomethanes
	Cd Cadmium	Cu Copper	HAA Haloacetic acids	NO3 Nitrate	Sb Antimony	

Appendix 3. Chemical achievement

TEA003TE	Te Aroha	3,768	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI049WA	Waitoa Village & Factory	500	Small	Private Other	✓	.	.	.	.	.	.	.	.	Notified

Appendix 3. Chemical achievement

**Hamilton City**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
HAM001HA	Hamilton City	130,813	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
HAM001RU	Ruakura/Ryburn Road	151	Small	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
HAM001TE	Temple View, Hamilton	1,413	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified

**Waipa District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
CAM001CA	Cambridge	13,368	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
CAM001KA	Karapiro Village	132	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HAM006IT	East Side Terminal	400	Small	Private Other	✓	.	.	.	.	.	.	.	.	Notified
HAM006WE	West Side Aviation Area	350	Small	Private Other	✓	.	.	.	.	.	.	.	.	Notified
KIH001KI	Kihikihi	2,000	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PUK001OH	Ohaupo	468	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PUK001PU	Pukerimu Rural	3,278	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TEA001PI	Pirongia	1,500	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TEA001TE	Te Awamutu Township	9,165	Medium	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TOK006TH	Tokenui	250	Small	Communal	✓	.	.	.	.	.	.	.	.	Notified

**Otorohanga District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
ARO001AO	Aotearoa Road,Arohena	120	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
ARO001MA	Mangare Road, Arohena	120	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
KAW001KA	Kawhia Township	390	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OTO001OT	Otorohanga	2,875	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TIH001TI	Tihiroa	400	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI047WA	Waipa	175	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**South Waikato District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
ARA003AR	Arapuni	300	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PUT001PU	Putaruru	4,116	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TIR001TI	Tirau	700	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TOK001TO	Tokoroa	13,300	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified

<b>Chemicals Mini Key</b>	As Arsenic	CHBCl2 Bromodichloromethane	DCAA Dichloroacetic acid	Mn Manganese	NOx Nitrate and nitrite	TCAA Trichloroacetic acid
	B Boron	ClO3 Chlorate	F Fluoride	Ni Nickel	Pb Lead	THM Trihalomethanes
	Cd Cadmium	Cu Copper	HAA Haloacetic acids	NO3 Nitrate	Sb Antimony	



Appendix 3. Chemical achievement

**Waitomo District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
BEN002BE	Benneydale	280	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MOK002MO	Mokau, Waitomo	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PIO001PI	Piopio	500	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TEK003TE	Te Kuiti	4,612	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI012WC	Waitomo Caves	500	Small	Private Other	✓	.	.	.	.	.	.	.	.	Notified

**Ruapehu District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
NAT001NA	National Park	240	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
OHA001OH	Ohakune Township	1,500	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
OHU001OH	Ohura	160	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
OWH001OW	Owhango	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
PIR001PI	Piriaka	120	Small	Communal	✓	.	.	.	.	.	.	.	.	Notified
RAE001RA	Raetihi Township	749	Minor	Local Authority	X	.	.	XT	.	.	XT	.	DCA X	X
TAU003TA	Taumarunui	4,870	Minor	Local Authority	✓	.	.	.	.	✓	.	.	.	X
WAI002WA	Waiouru Township	2,800	Minor	Government Other	X	.	.	XT	.	.	✓	.	DCA ✓	Notified
WHA015WV	Whakapapa Village	200	Small	DOC	✓	.	.	.	.	.	.	.	.	Notified

**Western Bay of Plenty District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
TEP002BA	Bayliss	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TEP002BU	Te Puke (Bush)	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
TEP002MA	Maketu	4,500	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TEP002TP	Te Puke	8,000	Medium	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WES011AT	Athenree	3,765	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WES011KA	Katikati	5,205	Medium	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WES013MI	Minden	1,200	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WES013WE	Westbay Central	4,600	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Tauranga City**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
BOS001EA	Boscabel Stage 1	120	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
BOS001WE	Boscabel Stage 2	120	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
TAU004MP	Mt Maunganui - Papamoa	52,000	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TAU004TB	Tauranga - Bethlehem	51,783	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

Appendix 3. Chemical achievement

**Whakatane District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
MAT005MA	Matata	690	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MUR002MU	Murupara	2,060	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RAN007ED	Edgecumbe	1,430	Minor	Local Authority	×	×T	.	.	.	.	.	.	.	Notified
RAN007PR	Rangitaiki Plains Rural	2,486	Minor	Local Authority	×	×T	.	.	.	.	.	.	.	Notified
RAN007TE	Te Teko	346	Small	Local Authority	×	×T	.	.	.	.	.	.	.	Notified
RUA003RU	Ruatoki	560	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TAN001TA	Taneatua	790	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TEM004TE	Te Mahoe	120	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI017WA	Waimana	160	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WHA005OH	Ohope	6,000	Medium	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
WHA005WH	Whakatane	15,020	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified

**Kawerau District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
KAW003KA	Kawerau	6,921	Medium	Local Authority	✓	✓	.	.	.	✓	.	.	Ni✓	Notified
KAW003UV	Upper Valley Road	800	Minor	Local Authority	✓	✓	.	.	.	✓	.	.	Cu✓	Notified

**Opotiki District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
KAI054KA	Kaiaio Hapu	160	Small	Marae	✓	.	.	.	.	.	.	.	.	Exempt
KUT003KU	Kutarere	300	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
OMA016OM	Omaio	150	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt
OPO001HI	Hikutaia, Opotiki	1,100	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OPO001OP	Opotiki Town	4,000	Minor	Local Authority	✓	.	.	.	.	✓	.	.	.	Notified
TEK004TE	Te Kaha	390	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

<b>Chemicals Mini Key</b>	As Arsenic	CHBCl2 Bromodichloromethane	DCAA Dichloroacetic acid	Mn Manganese	NOx Nitrate and nitrite	TCAA Trichloroacetic acid
	B Boron	ClO3 Chlorate	F Fluoride	Ni Nickel	Pb Lead	THM Trihalomethanes
	Cd Cadmium	Cu Copper	HAA Haloacetic acids	NO3 Nitrate	Sb Antimony	

Appendix 3. Chemical achievement

**Rotorua District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
BRU005BR	Brunswick 4	110	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt
HAM003HA	Hamurana	900	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HAM003KA	Kaharoa	800	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
KAI009KA	Kaingaroa	400	Small	Communal	✓	.	.	.	.	✓	.	.	Cd✓, Cu✓	Notified
MAM001MA	Mamaku Township	868	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
NGO001NG	Ngongotaha Township	4,826	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
REP001RE	Reporoa	1,060	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
ROT001OK	Okareka	730	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
ROT001RE	Rotorua Eastern Suburbs	9,600	Medium	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
ROT002RO	Rotoma	340	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
ROT003RO	Rotorua City	42,500	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
ROT004RO	Rotoiti	880	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI074WA	Waipa Sawmill	300	Small	Private Other	✓	.	.	.	.	.	.	.	.	Notified

**Taupo District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
ACA001AC	Acacia Bay	1,512	Minor	Local Authority	X	XT	.	.	.	.	.	.	.	Notified
ACA001MA	Mapara Road Rural	869	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
ATI001AV	Atiamuri Village	134	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
BON001BO	Bonshaw Park	152	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
CEN001RR	Rakanui Road	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HAT001HV	Hatepe Village	174	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
KIN001KI	Kinloch Town	1,604	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MAN002MA	Mangakino	1,312	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MOT002MO	Motuoapa	739	Minor	Local Authority	X	XT	.	.	.	.	.	.	.	Notified
OMO001OM	Omori / Kuratau / Pukawa	1,783	Minor	Local Authority	X	XT	.	.	.	.	.	.	.	Notified
RIV003RI	River Rd Reporoa	197	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TAU001TC	Taupo Central & West	17,105	Large	Local Authority	✓	✓	✓	.	.	.	.	.	.	Notified
TAU001TS	Taupo - Taupo South	6,396	Medium	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
TIR002TI	Tirohanga	325	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TUR001TO	Tokaanu	360	Small	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
TUR001TU	Turangi	3,578	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
WHA010WH	Whareroa	313	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WHA011WH	Whakamaru	116	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

Appendix 3. Chemical achievement

**Gisborne District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
ENI001MA	Mangahauini	130	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
GIS001GI	Gisborne City	29,600	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
GIS001RU	Gisborne Rural	1,000	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
TEK002TE	Te Karaka	491	Small	Local Authority	✓	.	.	.	.	.	.	.	Mn✓	Notified
TEP001TE	Te Puia Springs Hosp & Village	300	Small	Health	✓	.	.	.	.	.	.	.	.	Exempt
WHA004WH	Whatatutu	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**New Plymouth District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
ING001IN	Inglewood	3,983	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
NEW002BE	Bell Block	4,820	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
NEW002LE	Lepperton	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
NEW002NE	New Plymouth	45,420	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
NEW002UR	Urenui/Tikorangi	1,030	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
NEW002WA	Waitara	7,602	Medium	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OAK001OA	Oakura	1,625	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OKA002OK	Okato	530	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Stratford District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
MID001MI	Midhirst	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
STR001ST	Stratford	6,773	Medium	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified

<b>Chemicals Mini Key</b>	As Arsenic	CHBCl2 Bromodichloromethane	DCAA Dichloroacetic acid	Mn Manganese	NOx Nitrate and nitrite	TCAA Trichloroacetic acid
	B Boron	ClO3 Chlorate	F Fluoride	Ni Nickel	Pb Lead	THM Trihalomethanes
	Cd Cadmium	Cu Copper	HAA Haloacetic acids	NO3 Nitrate	Sb Antimony	

Appendix 3. Chemical achievement

**South Taranaki District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
COL005PI	Pihama	350	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt
ELT001EL	Eltham	1,980	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HAW003HA	Hawera	8,550	Medium	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
HAW003NO	Normanby	850	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
HAW003OH	Ohawe Beach	210	Small	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
INA001IN	Inaha	495	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OPU001OP	Opunake	1,370	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PAT001PA	Patea	1,150	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RAH001RA	Rahotu	115	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI018KA	Kaponga	370	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI018MA	Manaia	925	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI018RU	Waimate West Rural	1,585	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAV001WA	Waverley	950	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Wairoa District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
RAU006RA	Raupunga	250	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
TUA005TU	Tuai	300	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI006FR	Frasertown	350	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI006WA	Wairoa	4,300	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Napier City**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
BAY001BA	Bayview Township	894	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
NAP001NA	Napier City	25,800	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
NAP001TA	Taradale	24,110	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

Appendix 3. Chemical achievement

**Hastings District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
CLI001AL	Allen Lane/Ferry Rd, Clive	198	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
CLI001VA	Valerie St/Tuckers Lane, Clive	362	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HAS001BP	Bridge Pa	300	Small	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
HAS001EA	Hastings East	13,562	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
HAS001FL	Flaxmere	11,324	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
HAS001WE	Hastings West & Central	20,829	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
HAU002HA	Haumoana / Te Awanga	1,900	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HAV001HA	Havelock North	11,623	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
OMA008OM	Omahu	126	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PAK008PA	Paki Paki	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PAR025PA	Parkhill Farm	288	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI007WA	Waimarama	260	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WHA029WH	Whakatu	337	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WHI007WH	Whirinaki, Hawkes Bay	750	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Central Hawkes Bay District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
POR003PT	Porangahau Township	130	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TAK001TA	Takapau Township	570	Minor	Local Authority	✓	.	.	.	.	.	.	.	Mn✓	Notified
WAI004HI	Waipukurau High Pressure Zone	3,000	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI004LO	Waipukurau Low Pressure Zone	666	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI005OT	Otane Township	546	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI005WA	Waipawa Township	1,809	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Chatham Islands**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
WAI158WA	Waitangi, Chatham Is.	125	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt

<b>Chemicals Mini Key</b>	As Arsenic	CHBCl2 Bromodichloromethane	DCAA Dichloroacetic acid	Mn Manganese	NOx Nitrate and nitrite	TCAA Trichloroacetic acid
	B Boron	ClO3 Chlorate	F Fluoride	Ni Nickel	Pb Lead	THM Trihalomethanes
	Cd Cadmium	Cu Copper	HAA Haloacetic acids	NO3 Nitrate	Sb Antimony	

Appendix 3. Chemical achievement

**Wanganui District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
BRU001BR	Brunswick-Westmere	450	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
FOR001FO	Fordell Township	350	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MAX001MA	Maxwell	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MOW001MO	Mowhanau Beach	300	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAN001AR	Aramoho	5,000	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAN001EA	Wanganui East	5,000	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAN001WA	Wanganui City	29,000	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Rangitikei District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
BUL001BU	Bulls Township	1,800	Minor	Local Authority	✓	.	.	.	.	✓	.	.	Cu✓	Notified
HUN001HU	Hunterville Township	400	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MAN001MA	Mangaweka Township	180	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MAR001MA	Marton Township	3,750	Minor	Local Authority	X	.	.	.	.	.	.	XT	CHBCl2✓	Notified
RAT001RA	Ratana Township	450	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TAI001TA	Taihape Township	2,200	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Manawatu District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
FEI001FE	Feilding	13,000	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
HAL001HA	Halcombe-Stanway	430	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HIM001HI	Himatangi Beach	438	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
KIW003KI	Kimbolton	150	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
OHA002OH	Ohakea	800	Minor	Government Other	✓	.	.	.	.	.	.	.	.	Notified
SAN001SA	Sanson	492	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI022WA	Waituna West	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

Appendix 3. Chemical achievement

**Palmerston North City**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
ASH001AS	Ashurst	2,800	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
BUN001BU	Bunnythorpe	450	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LIN001LI	Linton	4,500	Minor	Government Other	✓	.	✓	.	.	.	.	.	.	Notified
LON001LO	Longburn	240	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LON002SC	Longburn Adventist College	300	Small	Education Public	✓	.	.	.	.	.	.	.	.	Exempt
LON006BR	Longburn, Brandlines	150	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt
MAS001MA	Massey University	9,000	Medium	Private Other	✓	.	.	.	.	.	.	.	.	Notified
PAL001AO	Aokautere	2,739	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
PAL001FW	Fitzherbert West	450	Small	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
PAL001KG	Kelvin Grove	5,784	Medium	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
PAL001PC	Palmerston North City	58,680	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified

**Tararua District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
DAN001DA	Dannevirke	6,000	Medium	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
EKE001EK	Eketahuna	456	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
NOR002NO	Norsewood	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PAH001PA	Pahiatua	2,700	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PLE002PL	Pleckville	200	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
PON001PO	Pongaroa	200	Small	Communal	✓	.	.	.	.	.	.	.	.	Notified
WOO001WO	Woodville	1,500	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Horowhenua District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
FOX002FO	Foxton	2,700	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
FOX003FO	Foxton Beach	1,900	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LEV001LE	Levin	20,000	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
SHA001SH	Shannon	1,436	Minor	Local Authority	✓	.	.	✓	.	.	✓	.	DCA✓	Notified
TOK002TO	Tokomaru	550	Minor	Local Authority	×	.	.	×T	.	.	✓	.	DCA✓	Notified

<b>Chemicals Mini Key</b>	As Arsenic	CHBCl2 Bromodichloromethane	DCAA Dichloroacetic acid	Mn Manganese	NOx Nitrate and nitrite	TCAA Trichloroacetic acid
	B Boron	ClO3 Chlorate	F Fluoride	Ni Nickel	Pb Lead	THM Trihalomethanes
	Cd Cadmium	Cu Copper	HAA Haloacetic acids	NO3 Nitrate	Sb Antimony	



Appendix 3. Chemical achievement

**Kapiti Coast District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
HAU003HA	Hautere	700	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OTA003OT	Otaki	4,700	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OTA003WA	Waitohu	1,000	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PAE002PA	Paekakariki	1,665	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI010PA	Paraparaumu/Raumati	25,200	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
WAI010WA	Waikanae	10,600	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified

**Upper Hutt City**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
UPP001PI	Pinehaven	3,090	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
UPP001UP	Upper Hutt Central	31,560	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified

**The Hutt City**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
LOW001EA	Eastbourne	4,704	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
LOW001HA	Haywards	372	Small	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
LOW001LO	Lower Hutt	56,103	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
LOW001PE	Petone	8,034	Medium	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
LOW001ST	Stokes Valley	9,198	Medium	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
LOW001WA	Wainuiomata	17,058	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified

**Porirua City**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
JUD001JU	Judgeford	200	Small	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
POR001MA	Mana/Plimmerton/Paremata	5,184	Medium	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
POR001PH	Porirua High Level	15,398	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
POR001PL	Porirua Low Level	16,924	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
POR001PU	Pukerua Bay	1,656	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
POR001WH	Whitby	7,282	Medium	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified

Appendix 3. Chemical achievement

**Wellington City**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
WEL002BR	Brooklyn	9,765	Medium	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
WEL002CH	Churton	4,446	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
WEL002EA	Eastern Wellington	16,815	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
WEL002JO	Johnsonville	18,357	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
WEL002KA	Karori	13,146	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
WEL002KE	Kelburn	9,924	Medium	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
WEL002ON	Onslow	11,883	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
WEL002SO	Southern Wellington	30,024	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
WEL002TA	Tawa	12,903	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
WEL002WA	Wadestown	6,789	Medium	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
WEL002WE	Wellington Central	31,074	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified

**Masterton District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
FER001FE	Fernridge	320	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
MAS002MA	Masterton	19,000	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
OPA001OP	Opaki	600	Minor	Communal	✓	.	.	.	.	.	.	.	.	Notified
TIN002TI	Tinui	120	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI058WA	Wainuioru Rural Water	184	Small	Communal	✓	.	.	.	.	.	.	.	.	Notified

**Carterton District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
CAR001CA	Carterton	4,200	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**South Wairarapa District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
FEA001FE	Featherston	2,580	Minor	Local Authority	×	.	.	×	.	.	.	.	.	Notified
GRE002GR	Greytown	1,952	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MAR003MA	Martinborough	1,505	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

Chemicals Mini Key	As Arsenic	CHBCl2 Bromodichloromethane	DCAA Dichloroacetic acid	Mn Manganese	NOx Nitrate and nitrite	TCAA Trichloroacetic acid
	B Boron	ClO3 Chlorate	F Fluoride	Ni Nickel	Pb Lead	THM Trihalomethanes
	Cd Cadmium	Cu Copper	HAA Haloacetic acids	NO3 Nitrate	Sb Antimony	

Appendix 3. Chemical achievement

**Nelson City**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
GLE013GL	Glenwood	150	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
NEL001NL	Nelson	49,740	Large	Local Authority	✓	.	.	✓	.	✓	.	.	.	Notified

**Tasman District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
APP002AP	Appleby Hills	250	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
CEN002CT	Central Takaka	125	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
COL007CO	Collingwood	450	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
DOV001DO	Dovedale Rural	450	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
EIG001EI	Eighty Eight Valley Rural	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HOP001HO	Hope/Brightwater	2,730	Minor	Local Authority	✓	.	.	.	.	✓	.	.	.	Notified
KAI015KA	Kaiteriteri	300	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LAK013LA	Lake Rotoiti	200	Small	DOC	✓	.	.	.	.	.	.	.	.	Exempt
LOW006LM	Lower Moutere Scheme 2	200	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
LOW006LO	Lower Moutere Scheme 1	400	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
MOT001MO	Motueka	1,200	Minor	Local Authority	✓	.	.	.	.	✓	.	.	.	Notified
MUR001MU	Murchison	490	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
POH001PV	Pohara	150	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RED001R1	Redwoods #1	180	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RED001R2	Redwoods #2	370	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RIC002RI	Richmond	10,500	Large	Local Authority	✓	.	.	.	✓	.	.	.	.	Notified
RIC002WI	Waimea Industrial	1,800	Minor	Local Authority	✓	.	.	.	✓	.	.	.	.	Notified
TAP003TA	Tapawera	400	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI023MR	Mapua Ruby Bay	1,500	Minor	Local Authority	✓	.	.	.	.	✓	.	.	.	Notified
WAK001WA	Wakefield	1,500	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Marlborough District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
BLE001BL	Blenheim	25,842	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HAV002HA	Havelock	486	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PIC001PI	Picton/Waikawa	4,053	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RAR001RA	Rarangi	160	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
REN001RE	Renwick	2,118	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RIV002RI	Riverlands Industrial Estate	471	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
SED001DA	Dashwood Rural	243	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
SED001SE	Seddon, Awatere Valley	945	Minor	Local Authority	×	.	.	.	.	×	.	.	Ni×	Notified

Appendix 3. Chemical achievement

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
WAI034WA	Wairau Valley	165	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAR003WA	Ward	250	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt

**Buller District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
HEC001HE	Hector	300	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HEC001NG	Ngakawau	135	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LIT003LI	Little Wanganui	150	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PUN001PU	Punakaiki	230	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
REE001RE	Reefton	951	Minor	Local Authority	✓	.	.	.	.	✓	.	.	Sb✓	Notified
WAI001WA	Waimangaroa	300	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WES001CA	Carters Beach	357	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WES001WE	Westport	4,617	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Grey District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
BLA001BL	Blackball	481	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
GRE001CO	Cobden	2,000	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
GRE001GM	Greymouth	7,183	Medium	Local Authority	✓	.	.	✓	.	.	.	.	.	Notified
RUN001RA	Rapahoe	102	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RUN001RU	Runanga	1,337	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
STI001ST	Stillwater	122	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TAY001DO	Dobson	464	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TAY001TA	Taylorville	198	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Westland District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
FOX001FO	Fox Glacier	252	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
FRA001FR	Franz Josef	330	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
HAR001HA	Harihari	348	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
HOK001HO	Hokitika	3,537	Minor	Local Authority	×	.	.	×	.	.	.	.	DCA×	X
KUM001KU	Kumara	318	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
ROS001RO	Ross Township	291	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
WHA002WH	Whataroa	405	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt

<b>Chemicals Mini Key</b>	As Arsenic	CHBCl2 Bromodichloromethane	DCAA Dichloroacetic acid	Mn Manganese	NOx Nitrate and nitrite	TCAA Trichloroacetic acid
	B Boron	ClO3 Chlorate	F Fluoride	Ni Nickel	Pb Lead	THM Trihalomethanes
	Cd Cadmium	Cu Copper	HAA Haloacetic acids	NO3 Nitrate	Sb Antimony	



Appendix 3. Chemical achievement

**Kaikoura District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
FER003FE	Fernleigh Rural Water Supply	150	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
KAI004KU	Kaikoura Urban	2,500	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
KAI021EA	Kaikoura East Coast Rural	150	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
KEK001RE	Kekerengu Restaurant	300	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
KIN003KI	Kincaid Rural Water Supply	120	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OAR001OA	Oaro	400	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OCE002OC	Ocean Ridge	500	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Hurunui District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
AMB001AT	Amberley Town	1,200	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
AMB004BE	Amberley Beach	480	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
AMB004BR	Broomfield	150	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
AMU001RO	Rotherham Township and Rural	400	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
ASH002AS	Ashley/Sefton/Loburn	2,750	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
ASH002LE	Leithfield	500	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
BAL003BA	Balmoral Rural Water Supply	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
CHE001CT	Cheviot Town	1,340	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
CHE001GO	Gore Bay/Port Robinson Rural	300	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
CUL001CU	Culverden	420	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HAN001HA	Hanmer Town	1,500	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HAW001HW	Hawarden/Waikari	1,100	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
KAI039KA	Kaiwara	162	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
KAR005KA	Lower Waitohi	300	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LEI004LE	Leithfield Beach	150	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MOT016MO	Motunau, Greta, Scargill	600	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PAR009PA	Parnassus Rural	160	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI026WT	Waiau Township	420	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI066UP	Waitohi Upper, Waipara	400	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI067WA	Waiau Rural	240	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI068WA	Waipara Township	300	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

<b>Chemicals Mini Key</b>	As Arsenic	CHBCl2 Bromodichloromethane	DCAA Dichloroacetic acid	Mn Manganese	NOx Nitrate and nitrite	TCAA Trichloroacetic acid
	B Boron	ClO3 Chlorate	F Fluoride	Ni Nickel	Pb Lead	THM Trihalomethanes
	Cd Cadmium	Cu Copper	HAA Haloacetic acids	NO3 Nitrate	Sb Antimony	

Appendix 3. Chemical achievement

**Waimakariri District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
CUS001CU	Cust	350	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
FER002FE	Fernside	215	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
GAR001GA	Garrymere	105	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
KAI003KA	Kaiapoi	11,315	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MAN009MA	Mandeville	1,843	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OHO001OH	Ohoka	262	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OXF101OX	Oxford Rural No1	1,247	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OXF102OR	Oxford Rural No2	797	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OXF103OX	Oxford Urban	2,133	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PEG001PE	Pegasus	2,975	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PIN001PK	Pines/Kairaki	452	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
POY001PO	Poyntz Road	212	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RAN001RA	Rangiora	17,605	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI011KI	Waikuku Beach	1,036	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WES004SU	Summerhill	480	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WES004WE	West Eyreton	122	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WOO002WO	Woodend Town	3,265	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Christchurch City**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
AKA001AY	Aylmers	900	Minor	Local Authority	✓	.	.	✓	.	.	.	✓	.	Notified
AKA001LA	L'Aube Hill	450	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
BIR001BI	Birdlings Flat	150	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
BRO012BR	Brooklands / Kainga	1,600	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
CHR001CE	Central Christchurch	185,000	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
CHR001PA	Parklands	16,000	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
CHR001RI	Riccarton	10,000	Medium	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
CHR001RP	Rocky Point	2,500	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
CHR001WE	West Christchurch	42,000	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
DUV001DU	Duvauchelle	250	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LIT001LI	Little River	240	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LYT001DI	Diamond Harbour	1,200	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LYT001GO	Governors Bay	750	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LYT001LY	Lyttelton	2,500	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

Appendix 3. Chemical achievement

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
NOR012CH	Northwest Christchurch	80,000	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OKA010OK	Okains Bay	105	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
TAK002TA	Takamatua	150	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI138WA	Wainui	200	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAT006WB	Waterloo Business Pk, Stage 1	1,300	Minor	Private Other	✓	.	.	.	.	.	.	.	.	X

**Selwyn District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
ART002AR	Arthurs Pass	350	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
CAS003CA	Castle Hill	299	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
CLA005CL	Claremont	170	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
DAR001DA	Darfield	3,283	Minor	Local Authority	✓	.	.	.	✓	.	.	.	MAVNOx✓	Notified
DUN008DU	Dunsandel & Sherwood Estate	480	Small	Local Authority	✓	.	.	.	✓	.	.	.	.	Notified
EDE002ED	Edendale, Sandy Knolls	180	Small	Local Authority	✓	.	.	.	✓	.	.	.	.	Notified
JOH001JO	Johnson Rd, West Melton	160	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
JOW001JO	Jowers Rd West Melton	160	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
KIR001KI	Kirwee	1,100	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LAK007LA	Lake Coleridge	148	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LEE001LE	Leeston	2,350	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LIN002LI	Lincoln	3,670	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MAL001DA	Dalethorpe	183	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MAL001MA	Malvern Hills, Hartleys Rd	1,409	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PRE001PR	Prebbleton	2,920	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RAK003RA	Rakaia Huts	313	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
ROL001RO	Rolleston	9,530	Medium	Local Authority	✓	.	.	.	✓	.	.	.	.	Notified
SEL001AC	Acheron	240	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
SEL001HO	Hororata	920	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
SHE004SH	Sheffield/Waddington	585	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
SOU001SO	Southbridge	992	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
SPR002SP	Springfield	520	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
SPR003SP	Springston	510	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TAI009TA	Tai Tapu	606	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WES010WE	West Melton	1,300	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

<b>Chemicals Mini Key</b>	As Arsenic	CHBCl2 Bromodichloromethane	DCAA Dichloroacetic acid	Mn Manganese	NOx Nitrate and nitrite	TCAA Trichloroacetic acid
	B Boron	ClO3 Chlorate	F Fluoride	Ni Nickel	Pb Lead	THM Trihalomethanes
	Cd Cadmium	Cu Copper	HAA Haloacetic acids	NO3 Nitrate	Sb Antimony	



Appendix 3. Chemical achievement

**Ashburton District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
ASH003AS	Ashburton	18,500	Large	Local Authority	✓	.	.	.	✓	.	.	.	.	Notified
CHE002CH	Chertsey	230	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
FAI001FA	Fairton	210	Small	Local Authority	✓	.	.	.	✓	.	.	.	.	Notified
HAK001HH	Hakaterere Upper	110	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HIG002HI	Highbank Society Water Supply	220	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
HIN001HI	Hinds	340	Small	Local Authority	✓	.	.	.	✓	.	.	.	.	Notified
LAK022LA	Lake Hood	300	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LYN002LY	Lyndhurst	200	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt
MAY001MA	Mayfield	160	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MET001ME	Methven	1,700	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
MET002MS	Methven/Springfield	180	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MTS001MS	Mt Somers Township	260	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RAK001RA	Rakaia Township	1,100	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Timaru District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
ARO002AO	Arowhenua	215	Small	Private Other	✓	.	.	.	.	.	.	.	.	Notified
DOW001ST	Sutherlands/Taiko	3,000	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
DOW001WR	Waimate Rural	360	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
DOW001WT	Waitohi/Totara Valley	700	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
GER001GE	Geraldine	2,433	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HAD001HA	Hadlow	312	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PAR002PA	Pareora	427	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PEE001PF	Peel Forest	130	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PLE001PP	Pleasant Point	1,282	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
SEA001SE	Seadown	896	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
STA004ST	St Andrews	304	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TEM001OR	Orari	170	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TEM001TE	Temuka	4,200	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TEM002GD	Geraldine Downs	324	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TEM002GF	Geraldine Flat	180	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TEM002TE	Te Moana	710	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TIM001GL	Gleniti	3,400	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

Appendix 3. Chemical achievement

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
TIM001TI	Timaru	22,620	Large	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WIN002WI	Winchester	250	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Mackenzie District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
ALB001AL	Albury Rural	125	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
ALL001AL	Allandale	291	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
FAI002FA	Fairlie	693	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
FAI002KI	Kimbell	150	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
MTC001MT	Mt Cook	200	Small	DOC	✓	.	.	.	.	.	.	.	.	Exempt
TEK005TE	Tekapo	369	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
TWI001TW	Twizel	1,137	Minor	Local Authority	X	.	.	.	.	X	.	.	Cu X	Notified

**Waimate District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
CAN001CM	Cannington/Motukaika	120	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HAK002HA	Hakataramea	165	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
HOO001HW	Hook/Waituna	1,350	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LOW002LO	Lower Waihao	600	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OTA005OM	Otaio/Makikihi	430	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI031WA	Waihaorunga	141	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI032WA	Waikakahi	360	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI033WA	Waimate	3,000	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Waitaki District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
AWA001AW	Awamoko	399	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HAM002HA	Hampden	237	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HAM002MO	Moeraki	264	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
HER001HE	Herbert	670	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
KAU001KA	Kauru Hill	197	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
KUR001KU	Kurow Township	330	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LOW004LO	Lower Waitaki	778	Minor	Local Authority	✓	.	.	.	✓	.	.	.	.	Notified
MAH001MA	Maheno	152	Small	Communal	✓	.	.	.	.	.	.	.	.	Notified
OAM001AR	Oamaru, Ardgowan	252	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

<b>Chemicals Mini Key</b>	As Arsenic	CHBCl2 Bromodichloromethane	DCAA Dichloroacetic acid	Mn Manganese	NOx Nitrate and nitrite	TCAA Trichloroacetic acid
	B Boron	ClO3 Chlorate	F Fluoride	Ni Nickel	Pb Lead	THM Trihalomethanes
	Cd Cadmium	Cu Copper	HAA Haloacetic acids	NO3 Nitrate	Sb Antimony	

Appendix 3. Chemical achievement

OAM001CE	Oamaru, Central	4,622	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OAM001KA	Oamaru, Kakanui	520	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OAM001NE	Oamaru, North End	2,234	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

Appendix 3. Chemical achievement

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
OAM001RR	Oamaru, Reservoir Road	768	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OAM001SH	Oamaru, South Hill	3,933	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OAM001WE	Oamaru, Weston - Enfield	2,061	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OMA001OM	Omarama Town	270	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OTE001OT	Otematata Hydro Village	195	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OTE002OT	Otekaieke Rural	140	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TOK003TL	Tokarahi/Livingstone	573	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI215DU	Waihemo, Dunback Rural	229	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI215GO	Waihemo, Goodwood Rural	270	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI215PA	Waihemo, Palmerston Town	858	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WIN004WI	Windsor	137	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Central Otago District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
ALE001AL	Alexandra	5,000	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
ALE002BE	Bennys	104	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
CLY001CL	Clyde Township	1,000	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
CRO001BA	Bannockburn	400	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
CRO001CR	Cromwell	4,000	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
EAR002EA	Earnsclough Water Scheme	120	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt
LAS003LA	Last Chance	120	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
MIL006MI	Millers Flat	210	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
NAS001NA	Naseby	150	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OMA005OM	Omakau	350	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PAT003PA	Patearoa	260	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
PIS001PI	Pisa Moorings	130	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt
PIS002PI	Pisa Village	250	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RAN002RA	Ranfurly	750	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
ROX001RO	Roxburgh	700	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

<b>Chemicals Mini Key</b>	As Arsenic	CHBCl2 Bromodichloromethane	DCAA Dichloroacetic acid	Mn Manganese	NOx Nitrate and nitrite	TCAA Trichloroacetic acid
	B Boron	ClO3 Chlorate	F Fluoride	Ni Nickel	Pb Lead	THM Trihalomethanes
	Cd Cadmium	Cu Copper	HAA Haloacetic acids	NO3 Nitrate	Sb Antimony	

Appendix 3. Chemical achievement

**Dunedin City**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
DUN001BO	Booth Road, Dunedin	37,036	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	X
DUN001GI	Green Island	10,199	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	X
DUN001LL	Low Levels/Peninsula, Dunedin	37,726	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	X
DUN001MH	Maori Hill	13,785	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	X
DUN001PC	Port Chalmers	2,469	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	X
DUN001WI	Wingatui, Dunedin	1,124	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	X
MOS001EA	East Taieri	300	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
MOS001KI	Kinmont	341	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt
MOS001QH	Quarry Hill	9,535	Medium	Local Authority	✓	.	.	.	.	.	.	.	.	X
OUT001OU	Outram Township	750	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
WAI015WK	Waikouaiti/Karitane/Seacliff	1,642	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
WES002WE	West Taieri Scheme	450	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt

**Clutha District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
BAL001BA	Balclutha	3,918	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
CLY005CL	Clinton Township	285	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
CLY005RU	Clydevale-Pomahaka Rural	493	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
GLE001GK	Glenkenich Rural	705	Minor	Local Authority	X	.	.	X	.	.	X	.	DCA X	Notified
KAI005KA	Kaitangata Township	762	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
LAW001LT	Lawrence	417	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MIL001MT	Milton	1,929	Minor	Local Authority	X	.	✓	X	.	.	.	.	.	Notified
MIL001OC	Otago Corrections Facility	600	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
MOA001MF	Moa Flat Rural	534	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
NOR003NB	North Bruce Rural	658	Minor	Local Authority	X	.	.	X	.	.	X	.	DCA X	Notified
NOR003WT	Waihola Township	270	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OWA001OW	Owaka	303	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RIC009KA	Kaka Point Township	222	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RIC009NO	Richardson Rural North	312	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RIC009SO	Richardson Rural South	469	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
STI002SB	South Bruce Rural	305	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
STI002ST	Stirling Township	303	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TAP001TA	Tapanui	726	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
TUA004TW	Tuapeka West Rural	283	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI016B1	Balmoral 1 Rural	247	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI016B2	Balmoral 2 Rural	399	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WAI016TE	Tuapeka East Rural	276	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

Appendix 3. Chemical achievement

**Queenstown Lakes District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
ARR001AR	Arrowtown	3,587	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
ART001AP	Arthurs Point	1,248	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
CAM008CA	Camphill Estate	132	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
CAR005CA	Cardrona Township	300	Small	Communal	✓	.	.	.	.	.	.	.	.	Exempt
GLE003GL	Glenorchy	1,232	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
HAW002HA	Hawea	2,444	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
JAC002JA	Jacks Point	185	Small	Private Other	✓	.	.	.	.	.	.	.	.	Exempt
LAK003ES	Lake Hayes Estate	799	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
LAK003LH	Lake Hayes	1,697	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
LUG001LU	Luggate	855	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
QUE001KE	Kelvin Heights	4,400	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
QUE001QU	Queenstown	15,600	Large	Local Authority	✓	.	.	.	.	.	.	.	.	X
WAN002AL	Albert Town	506	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	X
WAN002WA	Wanaka	9,608	Medium	Local Authority	✓	.	.	.	.	.	.	.	.	X
WAN007WA	Wanaka Airport	150	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Exempt

**Gore District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
GOR001GO	Gore	7,480	Medium	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MAT002MA	Mataura	1,790	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OTA004OT	Otama	300	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

**Invercargill City**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
INV001BL	Bluff	2,010	Minor	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified
INV001IN	Invercargill City	51,696	Large	Local Authority	✓	.	✓	.	.	.	.	.	.	Notified

<b>Chemicals Mini Key</b>	As Arsenic	CHBCl2 Bromodichloromethane	DCAA Dichloroacetic acid	Mn Manganese	NOx Nitrate and nitrite	TCAA Trichloroacetic acid
	B Boron	ClO3 Chlorate	F Fluoride	Ni Nickel	Pb Lead	THM Trihalomethanes
	Cd Cadmium	Cu Copper	HAA Haloacetic acids	NO3 Nitrate	Sb Antimony	

Appendix 3. Chemical achievement

**Southland District**

Zone Code	Distribution Zone	Population	Size	Type	Chemical	As	F	HAA	NO3	Pb	TCAA	THM	Other Chemical	Plumbosolvency
EDE001ED	Edendale	558	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
EDE001WY	Wyndham	594	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LUM001BA	Lumsden/Balfour Rural	608	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
LUM001LU	Lumsden	453	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MAN006MA	Manapouri	228	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
MIL007MI	Milford Sound	3,500	Minor	Private Other	✓	.	.	.	.	.	.	.	.	X
MOS002MO	Mossburn	201	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OHA009NI	Nightcaps	306	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OHA009OH	Ohai	303	Small	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
OTA001OT	Otautau	798	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
RIV001RI	Riverton	1,506	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TEA002TE	Te Anau	2,628	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
TUA001TU	Tuatapere	561	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified
WIN001WI	Winton	2,436	Minor	Local Authority	✓	.	.	.	.	.	.	.	.	Notified

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<b>Chemicals Mini Key</b>	As Arsenic	CHCl <sub>2</sub> Bromodichloromethane	DCAA Dichloroacetic acid	Mn Manganese	NO <sub>x</sub> Nitrate and nitrite	TCAA Trichloroacetic acid
	B Boron	ClO <sub>3</sub> Chlorate	F Fluoride	Ni Nickel	Pb Lead	THM Trihalomethanes
	Cd Cadmium	Cu Copper	HAA Haloacetic acids	NO <sub>3</sub> Nitrate	Sb Antimony	



# Appendix 4. Requirements of the Health Act

## KEY

Size	Population	Sections 69S, U, Y & Z apply from	Symbol	Meaning	Health Act Section	Requirements for
Large	10,001 or more	1 July 2012	✓	Met section requirements	69S	Provision of drinking water
Medium	5,001 to 10,000	1 July 2013	×	Failed section requirements	69U	Source protection
Minor	501 to 5,000	1 July 2014	NR	Not met, but this aspect not yet required for this supply	69Y	Monitoring
Small	101 to 500	1 July 2015	n/a	Section not applicable to this supply	69Z	Water Safety Plans (WSP)
					69ZD	Records
					69ZE	Complaints
					69ZF	Remedial action
					Met Requirements	All the above sections are ✓, NR or n/a.

## Whangarei District

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
BRE001BR	Bream Bay	5,280	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
MAU002MA	Maungakaramea	220	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Approved
WHA007HE	Whangarei Heads	2,450	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WHA007HI	Hikurangi	1,400	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WHA007WH	Whangarei	50,000	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

Appendix 4. Requirements of the Health Act

**Far North District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
KAI006KA	Kaikohe	4,000	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
KAI006NG	Ngawha Springs	200	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
KAI008KA	Kaitaia	5,400	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
KAW002KA	Kawakawa	1,500	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
KAW002MO	Moerewa / Otiria	2,000	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
KER001KE	Kerikeri	6,200	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
KER001WA	Waipapa	500	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Approved
MAN005MA	Mangonui, Coopers Beach	2,000	Minor	Private Other	×	×	×	×	×	×	n/a	No	Draft
OKA003OK	Okaihau	800	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
OMA002OM	Omapere	900	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
PAI001HA	Haruru Falls	1,000	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
PAI001OP	Opuā	1,000	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
PAI001PA	Paihia	2,000	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
PAK003PA	Pakanae	160	Small	Communal	✓	✓	✓	✓	✓	✓	×	No	Implementing
RAW001RA	Rawene	600	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
RUS004RU	Russell Township-Commercial	200	Small	Private Other	✓	✓	NR	✓	✓	✓	n/a	Yes	Implementing
WAI045WA	Waipapa, Lock	150	Small	Private Other	NR	NR	NR	NR	×	×	n/a	No	Draft
WAI226WA	Waima Hapu Community	300	Small	Private Other	NR	NR	NR	NR	×	×	n/a	No	Approved
WHI012WH	Whirinaki Maori Committee	250	Small	Private Other	✓	✓	NR	NR	✓	✓	n/a	Yes	Approved

**Kaipara District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
DAR002BB	Baylys Beach	228	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
DAR002DT	Dargaville Town	4,455	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
KAI007KD	Kaihu-Dargaville	324	Small	Local Authority	✓	✓	NR	NR	✓	✓	n/a	Yes	Not Started
MAN003MA	Mangawhai Heads	200	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Not Started
MAU001MA	Maungaturoto	900	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
RUA001RU	Ruawai	426	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

<b>Health Act</b>	69S Provision of drinking water	69U Source protection	69Y Monitoring	69Z Water safety plans	69ZD Records	69ZE Complaints	69ZF Remedial action
<b>Mini Key</b>	✓ Met requirements	×	Failed requirements	n/a Not applicable	NR Not met, not required yet		

Appendix 4. Requirements of the Health Act

**Greater Auckland (Watercare)**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
AUC003AA	Auckland Airport	4,557	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003AU	Auckland	261,638	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003AZ	Anzac	3,445	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003BU	Buckland	609	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003CB	Central Business Dist.Auckland	14,590	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003CL	Clarks/Waiiau Beach	1,332	Minor	Local Authority	✓	✓	✓	X	✓	✓	n/a	No	Not Started
AUC003EB	East Tamaki/Botany	36,914	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003GL	Glenbrook Beach	393	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Not Started
AUC003GN	Glen Eden/New Lynn	56,785	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003HE	Henderson	125,916	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003HH	High Head	4,000	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003HI	Hillsborough	62,355	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003HO	Howick/Pakuranga	94,803	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003HT	Hilltop	947	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003HV	Huia Village	597	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003HW	HBC/Waiwera	28,898	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003KI	Kitchener	14,866	Large	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
AUC003LA	Laingholm	2,457	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003MA	Maungawhau	45,267	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003MG	Mangere	71,629	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003MO	Montana	4,615	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003MT	Mt Hobson	30,526	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003MW	Manurewa	72,305	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003ON	Onehunga	27,101	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003OP	Otara/Papatoetoe/Manukau Cent.	58,441	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003OR	Oratia	1,596	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003OT	Otahuhu	11,083	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003PT	Patumahoe	606	Minor	Local Authority	✓	✓	✓	X	✓	✓	n/a	No	Not Started
AUC003SO	North Shore Sth.	151,400	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003SW	Swanson	4,540	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003TH	Te Henga	1,085	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003WE	North Shore West	71,300	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AUC003WH	Whenuapai	5,460	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
BOM003BO	Bombay	609	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
BUR004BU	Burnside Road	352	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
HEL005HP	Helensville/Parakai	4,579	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
MUR011MU	Muriwai	563	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
PAP001PC	Papakura City	30,091	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

Appendix 4. Requirements of the Health Act

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
PAP001RH	Red Hill	2,585	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
PAP001TA	Takanini	14,540	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
SNE002SN	Snells/Algies	4,664	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Draft
WAI214WA	Waiuku	8,697	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAR006WA	Warkworth	4,111	Minor	Local Authority	✓	✓	✓	×	✓	✓	✓	No	Draft
WEL004WE	Wellsford/Te Hana	2,114	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Draft

**Greater Auckland**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
BOM002BO	Bombay Motorway Services	200	Small	Private Other	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
BRO015BP	Broadway Park, Newmarket	1,000	Minor	Private Other	✓	✓	×	✓	✓	✓	n/a	No	Approved
HAR005HA	Haranui Whanau	499	Small	Marae	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
KEN005KP	Kensington Park	135	Small	Private Other	✓	✓	✓	NR	✓	✓	n/a	Yes	Approved
KIN002KH	Kingseat Community	400	Small	Private Other	✓	✓	✓	NR	✓	✓	n/a	Yes	Submitted
MAT034MA	Matiatia Wharf	200	Small	Local Authority	✓	✓	NR	NR	×	✓	n/a	No	Approved
WAI197GL	Waiuku, Glenbrook Beach Road	200	Small	Private Other	✓	✓	✓	NR	✓	✓	×	No	Approved

**Thames Coromandel District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
COR001CO	Coromandel	1,657	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Submitted
HAH001HA	Hahei, Harsant Subdivision	457	Small	Local Authority	✓	✓	NR	NR	✓	✓	n/a	Yes	Not Started
HAH003PA	Hahei, Pa Road	200	Small	Private Other	✓	✓	NR	NR	✓	n/a	n/a	Yes	Not Planned
MAT009MA	Matatoki	150	Small	Local Authority	✓	✓	NR	NR	✓	✓	n/a	Yes	Not Started
MAT010MA	Matarangi	279	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Submitted
ONE002ON	Onemana	170	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Submitted
PAU001PA	Pauanui	747	Minor	Local Authority	✓	✓	×	✓	✓	✓	×	No	Approved
PUR003PU	Puriri	150	Small	Local Authority	✓	✓	NR	NR	✓	✓	n/a	Yes	Not Started
TAI002TA	Tairua	1,335	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Submitted
TEP007AP	Te Puru - Aputa Ave	200	Small	Local Authority	✓	✓	NR	NR	✓	n/a	n/a	Yes	Not Started
THA001TK	Thames - Kopu	7,657	Medium	Local Authority	✓	✓	×	×	✓	✓	n/a	No	Approved
WHA003WH	Whangamata	3,665	Minor	Local Authority	✓	✓	×	×	✓	✓	n/a	No	Submitted
WHI001WH	Whitianga	4,115	Minor	Local Authority	✓	✓	×	×	✓	✓	n/a	No	Submitted

<b>Health Act</b>	69S Provision of drinking water	69U Source protection	69Y Monitoring	69Z Water safety plans	69ZD Records	69ZE Complaints	69ZF Remedial action
<b>Mini Key</b>	✓ Met requirements	×	Failed requirements	n/a Not applicable	NR Not met, not required yet		

Appendix 4. Requirements of the Health Act

**Hauraki District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
KAI013KA	Kaimanawa	204	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Not Started
KAR001KA	Karangahake	147	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
KER005KE	Kerepehi	1,371	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
MAC003MA	Mackaytown	174	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
OHI001OH	Ohinemuri	702	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
PAE001PA	Paeroa	3,864	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TUR007TU	Turua	1,181	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
WAI003WA	Waihi	4,623	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAI043WA	Waikino	304	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAI201WA	Waitakaruru	2,076	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved

**Waikato District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
HUN002HU	Huntly	7,210	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
HUN002RO	Rotongaro	130	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
NGA002HO	Horotiu	459	Small	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
NGA002NG	Ngaruawahia	5,691	Medium	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
NOR013NO	North Western Dist, Waikato DC	115	Small	Local Authority	✓	n/a	NR	✓	✓	✓	n/a	Yes	Implementing
POK001PO	Pokeno	1,128	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Not Started
RAG001RA	Raglan	3,187	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
SOU009SO	Southern Districts, Waikato DC	5,466	Medium	Local Authority	✓	n/a	✓	✓	✓	✓	n/a	Yes	Implementing
TAU002HO	Hopuhopu	200	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TAU002TA	Taupiri	529	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TEK001TR	Te Kauwhata / Rangiriri	1,410	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TEK001WH	Whangamarino Rural / Meremere	739	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TUA002TN	Tuakau North	1,102	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TUA002TS	Tuakau South	4,169	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**Matamata Piako District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
MAT004MA	Matamata Township	6,309	Medium	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Redrafting
MAT004WA	Waharoa	634	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Redrafting
MOR001MO	Morrinsville Township	6,603	Medium	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Draft
TAH001TA	Tahuna Township	120	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Not Started
TEA003TE	Te Aroha	3,768	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Draft
WAI049WA	Waitoa Village & Factory	500	Small	Private Other	✓	✓	✓	NR	✓	n/a	n/a	Yes	Not Planned

Appendix 4. Requirements of the Health Act

**Hamilton City**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
HAM001HA	Hamilton City	130,813	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
HAM001RU	Ruakura/Ryburn Road	151	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
HAM001TE	Temple View, Hamilton	1,413	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**Waipa District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
CAM001CA	Cambridge	13,368	Large	Local Authority	✓	✓	✓	✓	✓	✓	×	No	Implementing
CAM001KA	Karapiro Village	132	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
HAM006IT	East Side Terminal	400	Small	Private Other	✓	n/a	✓	NR	✓	n/a	n/a	Yes	Not Planned
HAM006WE	West Side Aviation Area	350	Small	Private Other	✓	n/a	✓	NR	✓	n/a	n/a	Yes	Not Planned
KIH001KI	Kihikihi	2,000	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
PUK001OH	Ohaupo	468	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
PUK001PU	Pukerimu Rural	3,278	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TEA001PI	Pirongia	1,500	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TEA001TE	Te Awamutu Township	9,165	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TOK006TH	Tokanui	250	Small	Communal	✓	n/a	✓	NR	✓	n/a	n/a	Yes	Not Planned

**Otorohanga District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
ARO001AO	Aotearoa Road, Arohena	120	Small	Local Authority	✓	n/a	✓	NR	✓	n/a	n/a	Yes	Not Started
ARO001MA	Mangare Road, Arohena	120	Small	Local Authority	✓	n/a	✓	NR	✓	n/a	n/a	Yes	Not Started
KAW001KA	Kawhia Township	390	Small	Local Authority	✓	n/a	✓	✓	✓	n/a	n/a	Yes	Implementing
OTO001OT	Otorohanga	2,875	Minor	Local Authority	✓	n/a	×	✓	✓	n/a	n/a	No	Implementing
TIH001TI	Tihiroa	400	Small	Local Authority	✓	n/a	✓	NR	✓	n/a	n/a	Yes	Not Started
WAI047WA	Waipa	175	Small	Local Authority	✓	n/a	✓	✓	✓	n/a	n/a	Yes	Implementing

**South Waikato District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
ARA003AR	Arapuni	300	Small	Local Authority	✓	n/a	✓	✓	✓	n/a	n/a	Yes	Implementing
PUT001PU	Putaruru	4,116	Minor	Local Authority	✓	n/a	✓	✓	✓	n/a	✓	Yes	Implementing
TIR001TI	Tirau	700	Minor	Local Authority	✓	n/a	✓	✓	✓	n/a	n/a	Yes	Implementing
TOK001TO	Tokoroa	13,300	Large	Local Authority	✓	n/a	✓	✓	✓	n/a	n/a	Yes	Implementing

<b>Health Act</b>	69S Provision of drinking water	69U Source protection	69Y Monitoring	69Z Water safety plans	69ZD Records	69ZE Complaints	69ZF Remedial action
<b>Mini Key</b>	✓ Met requirements	×	Failed requirements	n/a Not applicable	NR Not met, not required yet		

Appendix 4. Requirements of the Health Act

**Waitomo District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
BEN002BE	Benneydale	280	Small	Local Authority	✓	n/a	✓	✓	✓	✓	n/a	Yes	Implementing
MOK002MO	Mokau, Waitomo	200	Small	Local Authority	✓	n/a	NR	✓	✓	✓	n/a	Yes	Implementing
PIO001PI	Piopio	500	Small	Local Authority	✓	n/a	NR	NR	✓	✓	n/a	Yes	Approved
TEK003TE	Te Kuiti	4,612	Minor	Local Authority	✓	n/a	×	✓	✓	✓	n/a	No	Implementing
WAI012WC	Waitomo Caves	500	Small	Private Other	✓	n/a	✓	NR	✓	n/a	n/a	Yes	Not Planned

**Ruapehu District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
NAT001NA	National Park	240	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Approved
OHA001OH	Ohakune Township	1,500	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Redrafting
OHU001OH	Ohura	160	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
OWH001OW	Owhango	200	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Not Started
PIR001PI	Piriaka	120	Small	Communal	✓	n/a	NR	✓	✓	n/a	n/a	Yes	Implementing
RAE001RA	Raetihi Township	749	Minor	Local Authority	✓	✓	✓	✓	✓	✓	×	No	Implementing
TAU003TA	Taumarunui	4,870	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
WAI002WA	Waiouru Township	2,800	Minor	Government Other	✓	✓	✓	✓	✓	✓	×	No	Implementing
WHA015WV	Whakapapa Village	200	Small	DOC	✓	n/a	NR	✓	✓	n/a	n/a	Yes	Implementing

**Western Bay of Plenty District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
TEP002BA	Bayliss	200	Small	Local Authority	✓	n/a	✓	✓	✓	✓	✓	Yes	Implementing
TEP002BU	Te Puke (Bush)	200	Small	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
TEP002MA	Maketu	4,500	Minor	Local Authority	✓	n/a	✓	✓	✓	✓	n/a	Yes	Implementing
TEP002TP	Te Puke	8,000	Medium	Local Authority	✓	n/a	×	✓	✓	✓	✓	No	Implementing
WES011AT	Athenree	3,765	Minor	Local Authority	✓	n/a	✓	✓	✓	✓	n/a	Yes	Implementing
WES011KA	Katikati	5,205	Medium	Local Authority	✓	n/a	✓	✓	✓	✓	n/a	Yes	Implementing
WES013MI	Minden	1,200	Minor	Local Authority	✓	n/a	✓	✓	✓	✓	n/a	Yes	Implementing
WES013WE	Westbay Central	4,600	Minor	Local Authority	✓	n/a	✓	✓	✓	✓	n/a	Yes	Implementing

**Tauranga City**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
BOS001EA	Boscabel Stage 1	120	Small	Communal	✓	✓	NR	NR	✓	n/a	n/a	Yes	Not Planned
BOS001WE	Boscabel Stage 2	120	Small	Communal	✓	✓	NR	NR	✓	n/a	n/a	Yes	Not Planned
TAU004MP	Mt Maunganui - Papamoa	52,000	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TAU004TB	Tauranga - Bethlehem	51,783	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

Appendix 4. Requirements of the Health Act

**Whakatane District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
MAT005MA	Matata	690	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
MUR002MU	Murupara	2,060	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
RAN007ED	Edgecumbe	1,430	Minor	Local Authority	✓	✓	✓	✓	✓	✓	×	No	Implementing
RAN007PR	Rangitaiki Plains Rural	2,486	Minor	Local Authority	✓	✓	×	✓	✓	✓	×	No	Implementing
RAN007TE	Te Teko	346	Small	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
RUA003RU	Ruatoki	560	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TAN001TA	Taneatua	790	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TEM004TE	Te Mahoe	120	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAI017WA	Waimana	160	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WHA005OH	Ohope	6,000	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WHA005WH	Whakatane	15,020	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**Kawerau District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
KAW003KA	Kawerau	6,921	Medium	Local Authority	✓	n/a	✓	×	✓	✓	×	No	Redrafting
KAW003UV	Upper Valley Road	800	Minor	Local Authority	✓	n/a	✓	×	✓	✓	×	No	Redrafting

**Opotiki District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
KAI054KA	Kaiaio Hapu	160	Small	Marae	✓	✓	NR	NR	✓	✓	n/a	Yes	Approved
KUT003KU	Kutarere	300	Small	Communal	✓	n/a	NR	NR	✓	✓	n/a	Yes	Not Planned
OMA016OM	Omaio	150	Small	Private Other	NR	NR	NR	NR	×	×	n/a	No	Not Planned
OPO001HI	Hikutaia, Opotiki	1,100	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
OPO001OP	Opotiki Town	4,000	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TEK004TE	Te Kaha	390	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

<b>Health Act</b>	69S Provision of drinking water	69U Source protection	69Y Monitoring	69Z Water safety plans	69ZD Records	69ZE Complaints	69ZF Remedial action
<b>Mini Key</b>	✓ Met requirements	×	Failed requirements	n/a Not applicable	NR Not met, not required yet		



Appendix 4. Requirements of the Health Act

**Rotorua District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
BRU005BR	Brunswick 4	110	Small	Private Other	✓	n/a	NR	NR	✓	n/a	n/a	Yes	Draft
HAM003HA	Hamurana	900	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Redrafting
HAM003KA	Kaharoa	800	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Redrafting
KAI009KA	Kaingaroa	400	Small	Communal	✓	✓	NR	✓	✓	n/a	n/a	Yes	Implementing
MAM001MA	Mamaku Township	868	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
NGO001NG	Ngongotaha Township	4,826	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
REP001RE	Reporoa	1,060	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Redrafting
ROT001OK	Okareka	730	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
ROT001RE	Rotorua Eastern Suburbs	9,600	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
ROT002RO	Rotoma	340	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Redrafting
ROT003RO	Rotorua City	42,500	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
ROT004RO	Rotoiti	880	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Redrafting
WAI074WA	Waipa Sawmill	300	Small	Private Other	✓	n/a	NR	NR	✓	n/a	n/a	Yes	Not Planned

**Taupo District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
ACA001AC	Acacia Bay	1,512	Minor	Local Authority	✓	✓	✓	✓	✓	✓	×	No	Implementing
ACA001MA	Mapara Road Rural	869	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
ATI001AV	Atiamuri Village	134	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
BON001BO	Bonshaw Park	152	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
CEN001RR	Rakanui Road	200	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
HAT001HV	Hatepe Village	174	Small	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
KIN001KI	Kinloch Town	1,604	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
MAN002MA	Mangakino	1,312	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
MOT002MO	Motuoapa	739	Minor	Local Authority	✓	✓	✓	✓	✓	✓	×	No	Implementing
OMO001OM	Omori / Kuratau / Pukawa	1,783	Minor	Local Authority	✓	✓	✓	✓	✓	✓	×	No	Implementing
RIV003RI	River Rd Reporoa	197	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TAU001TC	Taupo Central & West	17,105	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TAU001TS	Taupo - Taupo South	6,396	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TIR002TI	Tirohanga	325	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TUR001TO	Tokaanu	360	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TUR001TU	Turangi	3,578	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WHA010WH	Whareroa	313	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WHA011WH	Whakamaru	116	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

Appendix 4. Requirements of the Health Act

**Gisborne District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
ENI001MA	Mangahauini	130	Small	Communal	NR	NR	NR	NR	×	×	n/a	No	Redrafting
GIS001GI	Gisborne City	29,600	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
GIS001RU	Gisborne Rural	1,000	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TEK002TE	Te Karaka	491	Small	Local Authority	NR	✓	✓	NR	✓	✓	n/a	Yes	Redrafting
TEP001TE	Te Puia Springs Hosp & Village	300	Small	Health	✓	✓	✓	NR	✓	×	n/a	No	Approved
WHA004WH	Whatatutu	200	Small	Local Authority	NR	✓	✓	NR	✓	✓	n/a	Yes	Approved

**New Plymouth District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
ING001IN	Inglewood	3,983	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
NEW002BE	Bell Block	4,820	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
NEW002LE	Lepperton	200	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
NEW002NE	New Plymouth	45,420	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
NEW002UR	Urenui/Tikorangi	1,030	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
NEW002WA	Waitara	7,602	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
OAK001OA	Oakura	1,625	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
OKA002OK	Okato	530	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**Stratford District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
MID001MI	Midhirst	200	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
STR001ST	Stratford	6,773	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**South Taranaki District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
COL005PI	Pihama	350	Small	Private Other	✓	✓	NR	NR	✓	✓	n/a	Yes	Draft
ELT001EL	Eltham	1,980	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
HAW003HA	Hawera	8,550	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
HAW003NO	Normanby	850	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
HAW003OH	Ohawe Beach	210	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
INA001IN	Inaha	495	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Not Started
OPU001OP	Opunake	1,370	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
PAT001PA	Patea	1,150	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing

<b>Health Act</b>	69S Provision of drinking water	69U Source protection	69Y Monitoring	69Z Water safety plans	69ZD Records	69ZE Complaints	69ZF Remedial action
<b>Mini Key</b>	✓ Met requirements	×	Failed requirements	n/a Not applicable	NR Not met, not required yet		

Appendix 4. Requirements of the Health Act

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
RAH001RA	Rahotu	115	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Redrafting
WAI018KA	Kaponga	370	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
WAI018MA	Manaia	925	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Draft
WAI018RU	Waimate West Rural	1,585	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Draft
WAV001WA	Waverley	950	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**Wairoa District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
RAU006RA	Raupunga	250	Small	Communal	NR	✓	NR	NR	✓	n/a	n/a	Yes	Approved
TUA005TU	Tuai	300	Small	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
WAI006FR	Frasertown	350	Small	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
WAI006WA	Wairoa	4,300	Minor	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing

**Napier City**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
BAY001BA	Bayview Township	894	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
NAP001NA	Napier City	25,800	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
NAP001TA	Taradale	24,110	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**Hastings District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
CLI001AL	Allen Lane/Ferry Rd, Clive	198	Small	Local Authority	✓	✓	✓	NR	✓	n/a	n/a	Yes	Draft
CLI001VA	Valerie St/Tuckers Lane, Clive	362	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
HAS001BP	Bridge Pa	300	Small	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
HAS001EA	Hastings East	13,562	Large	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
HAS001FL	Flaxmere	11,324	Large	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
HAS001WE	Hastings West & Central	20,829	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
HAU002HA	Haumoana / Te Awanga	1,900	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Draft
HAV001HA	Havelock North	11,623	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
OMA008OM	Omahu	126	Small	Local Authority	✓	✓	✓	NR	✓	n/a	n/a	Yes	Draft
PAK008PA	Paki Paki	200	Small	Local Authority	✓	✓	✓	NR	✓	n/a	n/a	Yes	Draft
PAR025PA	Parkhill Farm	288	Small	Local Authority	✓	✓	✓	NR	✓	n/a	n/a	Yes	Not Planned
WAI007WA	Waimarama	260	Small	Local Authority	✓	✓	✓	NR	✓	n/a	n/a	Yes	Draft
WHA029WH	Whakatu	337	Small	Local Authority	✓	✓	✓	NR	✓	n/a	n/a	Yes	Draft
WHI007WH	Whirinaki, Hawkes Bay	750	Minor	Local Authority	✓	✓	✓	×	✓	✓	✓	No	Draft

Appendix 4. Requirements of the Health Act

**Central Hawkes Bay District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
POR003PT	Porangahau Township	130	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
TAK001TA	Takapau Township	570	Minor	Local Authority	✓	✓	×	×	✓	✓	n/a	No	Draft
WAI004HI	Waipukurau High Pressure Zone	3,000	Minor	Local Authority	✓	✓	×	✓	✓	n/a	n/a	No	Implementing
WAI004LO	Waipukurau Low Pressure Zone	666	Minor	Local Authority	✓	✓	×	✓	✓	n/a	n/a	No	Implementing
WAI005OT	Otane Township	546	Minor	Local Authority	✓	✓	×	✓	✓	n/a	n/a	No	Implementing
WAI005WA	Waipawa Township	1,809	Minor	Local Authority	✓	✓	×	✓	✓	n/a	n/a	No	Implementing

**Chatham Islands**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
WAI158WA	Waitangi, Chatham Is.	125	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Approved

**Wanganui District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
BRU001BR	Brunswick-Westmere	450	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
FOR001FO	Fordell Township	350	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
MAX001MA	Maxwell	200	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
MOW001MO	Mowhanau Beach	300	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
WAN001AR	Aramoho	5,000	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAN001EA	Wanganui East	5,000	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAN001WA	Wanganui City	29,000	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**Rangitikei District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
BUL001BU	Bulls Township	1,800	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Draft
HUN001HU	Hunterville Township	400	Small	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
MAN001MA	Mangaweka Township	180	Small	Local Authority	✓	✓	✓	NR	✓	✓	✓	Yes	Redrafting
MAR001MA	Marton Township	3,750	Minor	Local Authority	✓	✓	✓	×	✓	✓	×	No	Draft
RAT001RA	Ratana Township	450	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Redrafting
TAI001TA	Taihape Township	2,200	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Draft

<b>Health Act</b>	69S Provision of drinking water	69U Source protection	69Y Monitoring	69Z Water safety plans	69ZD Records	69ZE Complaints	69ZF Remedial action
<b>Mini Key</b>	✓ Met requirements	×	Failed requirements	n/a Not applicable	NR Not met, not required yet		

Appendix 4. Requirements of the Health Act

**Manawatu District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
FEI001FE	Feilding	13,000	Large	Local Authority	✓	✓	×	✓	✓	✓	n/a	No	Implementing
HAL001HA	Halcombe-Stanway	430	Small	Local Authority	NR	✓	✓	NR	✓	✓	n/a	Yes	Redrafting
HIM001HI	Himatangi Beach	438	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Redrafting
KIW003KI	Kimbolton	150	Small	Communal	✓	✓	NR	NR	✓	✓	n/a	Yes	Redrafting
OHA002OH	Ohakea	800	Minor	Government Other	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
SAN001SA	Sanson	492	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAI022WA	Waituna West	200	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Redrafting

**Palmerston North City**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
ASH001AS	Ashhurst	2,800	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
BUN001BU	Bunnythorpe	450	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
LIN001LI	Linton	4,500	Minor	Government Other	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
LON001LO	Longburn	240	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
LON002SC	Longburn Adventist College	300	Small	Education Public	✓	✓	NR	NR	✓	✓	×	No	Draft
LON006BR	Longburn, Brandlines	150	Small	Private Other	NR	NR	NR	NR	×	×	n/a	No	Not Planned
MAS001MA	Massey University	9,000	Medium	Private Other	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
PAL001AO	Aokautere	2,739	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
PAL001FW	Fitzherbert West	450	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
PAL001KG	Kelvin Grove	5,784	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
PAL001PC	Palmerston North City	58,680	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**Tararua District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
DAN001DA	Dannevirke	6,000	Medium	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
EKE001EK	Eketahuna	456	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
NOR002NO	Norsewood	200	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Redrafting
PAH001PA	Pahiatua	2,700	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
PLE002PL	Pleckville	200	Small	Communal	✓	✓	NR	NR	✓	✓	n/a	Yes	Not Started
PON001PO	Pongaroa	200	Small	Communal	✓	✓	✓	✓	✓	✓	×	No	Implementing
WOO001WO	Woodville	1,500	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Draft

Appendix 4. Requirements of the Health Act

**Horowhenua District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
FOX002FO	Foxton	2,700	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
FOX003FO	Foxton Beach	1,900	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
LEV001LE	Levin	20,000	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
SHA001SH	Shannon	1,436	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TOK002TO	Tokomaru	550	Minor	Local Authority	✓	✓	✓	✓	✓	✓	×	No	Implementing

**Kapiti Coast District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
HAU003HA	Hautere	700	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
OTA003OT	Otaki	4,700	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
OTA003WA	Waitohu	1,000	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
PAE002PA	Paekakariki	1,665	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAI010PA	Paraparaumu/Raumati	25,200	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAI010WA	Waikanae	10,600	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**Upper Hutt City**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
UPP001PI	Pinehaven	3,090	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
UPP001UP	Upper Hutt Central	31,560	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**The Hutt City**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
LOW001EA	Eastbourne	4,704	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
LOW001HA	Haywards	372	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
LOW001LO	Lower Hutt	56,103	Large	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
LOW001PE	Petone	8,034	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
LOW001ST	Stokes Valley	9,198	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
LOW001WA	Wainuiomata	17,058	Large	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing

<b>Health Act</b>	69S Provision of drinking water	69U Source protection	69Y Monitoring	69Z Water safety plans	69ZD Records	69ZE Complaints	69ZF Remedial action
<b>Mini Key</b>	✓ Met requirements	×	Failed requirements	n/a Not applicable	NR Not met, not required yet		

Appendix 4. Requirements of the Health Act

**Porirua City**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
JUD001JU	Judgeford	200	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
POR001MA	Mana/Plimmerton/Paremata	5,184	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
POR001PH	Porirua High Level	15,398	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
POR001PL	Porirua Low Level	16,924	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
POR001PU	Pukerua Bay	1,656	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
POR001WH	Whitby	7,282	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**Wellington City**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
WEL002BR	Brooklyn	9,765	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WEL002CH	Churton	4,446	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WEL002EA	Eastern Wellington	16,815	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WEL002JO	Johnsonville	18,357	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WEL002KA	Karori	13,146	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WEL002KE	Kelburn	9,924	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WEL002ON	Onslow	11,883	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WEL002SO	Southern Wellington	30,024	Large	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
WEL002TA	Tawa	12,903	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WEL002WA	Wadestown	6,789	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WEL002WE	Wellington Central	31,074	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**Masterton District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
FER001FE	Fernridge	320	Small	Communal	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
MAS002MA	Masterton	19,000	Large	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
OPA001OP	Opaki	600	Minor	Communal	✓	✓	✓	×	✓	✓	×	No	Draft
TIN002TI	Tinui	120	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Not Planned
WAI058WA	Wainuioru Rural Water	184	Small	Communal	✓	✓	NR	NR	✓	✓	×	No	Not Started

**Carterton District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
CAR001CA	Carterton	4,200	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

Appendix 4. Requirements of the Health Act

**South Wairarapa District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
FEA001FE	Featherston	2,580	Minor	Local Authority	✓	✓	×	✓	✓	✓	n/a	No	Implementing
GRE002GR	Greytown	1,952	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Submitted
MAR003MA	Martinborough	1,505	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**Nelson City**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
GLE013GL	Glenwood	150	Small	Communal	✓	NR	✓	NR	✓	✓	×	No	Draft
NEL001NL	Nelson	49,740	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**Tasman District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
APP002AP	Appleby Hills	250	Small	Communal	✓	✓	NR	NR	✓	✓	n/a	Yes	Draft
CEN002CT	Central Takaka	125	Small	Communal	✓	NR	NR	NR	✓	✓	n/a	Yes	Not Started
COL007CO	Collingwood	450	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Approved
DOV001DO	Dovedale Rural	450	Small	Local Authority	✓	✓	✓	NR	✓	✓	✓	Yes	Draft
EIG001EI	Eighty Eight Valley Rural	200	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
HOP001HO	Hope/Brightwater	2,730	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
KAI015KA	Kaiteriteri	300	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
LAK013LA	Lake Rotoiti	200	Small	DOC	✓	✓	NR	✓	✓	✓	n/a	Yes	Implementing
LOW006LM	Lower Moutere Scheme 2	200	Small	Communal	NR	NR	NR	NR	×	×	n/a	No	Draft
LOW006LO	Lower Moutere Scheme 1	400	Small	Communal	NR	NR	NR	NR	×	×	n/a	No	Draft
MOT001MO	Motueka	1,200	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
MUR001MU	Murchison	490	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
POH001PV	Pohara	150	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
RED001R1	Redwoods #1	180	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
RED001R2	Redwoods #2	370	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
RIC002RI	Richmond	10,500	Large	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
RIC002WI	Waimea Industrial	1,800	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
TAP003TA	Tapawera	400	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAI023MR	Mapua Ruby Bay	1,500	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAK001WA	Wakefield	1,500	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

<b>Health Act</b>	69S Provision of drinking water	69U Source protection	69Y Monitoring	69Z Water safety plans	69ZD Records	69ZE Complaints	69ZF Remedial action
<b>Mini Key</b>	✓ Met requirements	×	Failed requirements	n/a Not applicable	NR Not met, not required yet		



Appendix 4. Requirements of the Health Act

**Marlborough District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
BLE001BL	Blenheim	25,842	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
HAV002HA	Havelock	486	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Redrafting
PIC001PI	Picton/Waikawa	4,053	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Redrafting
RAR001RA	Rarangi	160	Small	Communal	NR	NR	✓	NR	×	×	n/a	No	Draft
REN001RE	Renwick	2,118	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Draft
RIV002RI	Riverlands Industrial Estate	471	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Redrafting
SED001DA	Dashwood Rural	243	Small	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
SED001SE	Seddon, Awatere Valley	945	Minor	Local Authority	✓	✓	×	✓	✓	✓	n/a	No	Implementing
WAI034WA	Wairau Valley	165	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Not Started
WAR003WA	Ward	250	Small	Communal	NR	NR	NR	NR	×	✓	×	No	Not Started

**Buller District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
HEC001HE	Hector	300	Small	Local Authority	✓	✓	NR	✓	✓	✓	n/a	Yes	Implementing
HEC001NG	Ngakawau	135	Small	Local Authority	✓	✓	NR	✓	✓	✓	n/a	Yes	Implementing
LIT003LI	Little Wanganui	150	Small	Local Authority	✓	✓	NR	NR	✓	✓	n/a	Yes	Approved
PUN001PU	Punakaiki	230	Small	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
REE001RE	Reefton	951	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Approved
WAI001WA	Waimangaroa	300	Small	Local Authority	NR	✓	NR	✓	✓	✓	n/a	Yes	Implementing
WES001CA	Carters Beach	357	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WES001WE	Westport	4,617	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing

**Grey District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
BLA001BL	Blackball	481	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
GRE001CO	Cobden	2,000	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
GRE001GM	Greymouth	7,183	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
RUN001RA	Rapahoe	102	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
RUN001RU	Runanga	1,337	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
STI001ST	Stillwater	122	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TAY001DO	Dobson	464	Small	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
TAY001TA	Taylorville	198	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

Appendix 4. Requirements of the Health Act

**Westland District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
FOX001FO	Fox Glacier	252	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
FRA001FR	Franz Josef	330	Small	Local Authority	NR	✓	✓	✓	✓	✓	✓	Yes	Implementing
HAR001HA	Harihari	348	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
HOK001HO	Hokitika	3,537	Minor	Local Authority	✓	✓	×	✓	✓	✓	n/a	No	Implementing
KUM001KU	Kumara	318	Small	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
ROS001RO	Ross Township	291	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WHA002WH	Whataroa	405	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**Kaikoura District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
FER003FE	Fernleigh Rural Water Supply	150	Small	Local Authority	✓	✓	✓	NR	✓	✓	✓	Yes	Approved
KAI004KU	Kaikoura Urban	2,500	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
KAI021EA	Kaikoura East Coast Rural	150	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
KEK001RE	Kekerengu Restaurant	300	Small	Communal	NR	NR	NR	NR	×	×	n/a	No	Not Planned
KIN003KI	Kincaid Rural Water Supply	120	Small	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
OAR001OA	Oaro	400	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
OCE002OC	Ocean Ridge	500	Small	Local Authority	✓	✓	NR	NR	✓	✓	n/a	Yes	Draft

**Hurunui District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
AMB001AT	Amberley Town	1,200	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AMB004BE	Amberley Beach	480	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Approved
AMB004BR	Broomfield	150	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Approved
AMU001RO	Rotherham Township and Rural	400	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
ASH002AS	Ashley/Sefton/Loburn	2,750	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
ASH002LE	Leithfield	500	Small	Local Authority	✓	✓	NR	NR	✓	✓	n/a	Yes	Approved
BAL003BA	Balmoral Rural Water Supply	200	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
CHE001CT	Cheviot Town	1,340	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Approved
CHE001GO	Gore Bay/Port Robinson Rural	300	Small	Local Authority	✓	✓	✓	NR	✓	✓	✓	Yes	Approved
CUL001CU	Culverden	420	Small	Local Authority	✓	✓	✓	NR	✓	✓	✓	Yes	Approved
HAN001HA	Hanmer Town	1,500	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
HAW001HW	Hawarden/Waikari	1,100	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
KAI039KA	Kaiwara	162	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
KAR005KA	Lower Waitohi	300	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
LEI004LE	Leithfield Beach	150	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft

<b>Health Act</b>	69S Provision of drinking water	69U Source protection	69Y Monitoring	69Z Water safety plans	69ZD Records	69ZE Complaints	69ZF Remedial action
<b>Mini Key</b>	✓ Met requirements	×	Failed requirements	n/a Not applicable	NR Not met, not required yet		

Appendix 4. Requirements of the Health Act

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
MOT016MO	Motunau, Greta, Scargill	600	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
PAR009PA	Parnassus Rural	160	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
WAI026WT	Waiau Township	420	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAI066UP	Waitohi Upper, Waipara	400	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
WAI067WA	Waiau Rural	240	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
WAI068WA	Waipara Township	300	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft

**Waimakariri District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
CUS001CU	Cust	350	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Approved
FER002FE	Fernside	215	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
GAR001GA	Garrymere	105	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
KAI003KA	Kaiapoi	11,315	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
MAN009MA	Mandeville	1,843	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
OHO001OH	Ohoka	262	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
OXF101OX	Oxford Rural No1	1,247	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
OXF102OR	Oxford Rural No2	797	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
OXF103OX	Oxford Urban	2,133	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
PEG001PE	Pegasus	2,975	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
PIN001PK	Pines/Kairaki	452	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Not Started
POY001PO	Poyntz Road	212	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Not Started
RAN001RA	Rangiora	17,605	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAI011KI	Waikuku Beach	1,036	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
WES004SU	Summerhill	480	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WES004WE	West Eyreton	122	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WOO002WO	Woodend Town	3,265	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

Appendix 4. Requirements of the Health Act

**Christchurch City**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
AKA001AY	Aylmers	900	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
AKA001LA	L'Aube Hill	450	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
BIR001BI	Birdlings Flat	150	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
BRO012BR	Brooklands / Kainga	1,600	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
CHR001CE	Central Christchurch	185,000	Large	Local Authority	×	✓	✓	✓	✓	✓	✓	No	Implementing
CHR001PA	Parklands	16,000	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
CHR001RI	Riccarton	10,000	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
CHR001RP	Rocky Point	2,500	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
CHR001WE	West Christchurch	42,000	Large	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
DUV001DU	Duvauchelle	250	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
LIT001LI	Little River	240	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
LYT001DI	Diamond Harbour	1,200	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
LYT001GO	Governors Bay	750	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
LYT001LY	Lyttelton	2,500	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
NOR012CH	Northwest Christchurch	80,000	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
OKA010OK	Okains Bay	105	Small	Communal	✓	✓	NR	NR	✓	✓	n/a	Yes	Submitted
TAK002TA	Takamatua	150	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAI138WA	Wainui	200	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAT006WB	Waterloo Business Pk, Stage 1	1,300	Minor	Private Other	✓	✓	×	✓	✓	✓	n/a	No	Approved

**Selwyn District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
ART002AR	Arthurs Pass	350	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
CAS003CA	Castle Hill	299	Small	Local Authority	✓	✓	NR	✓	✓	✓	n/a	Yes	Implementing
CLA005CL	Claremont	170	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
DAR001DA	Darfield	3,283	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
DUN008DU	Dunsandel & Sherwood Estate	480	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
EDE002ED	Edendale, Sandy Knolls	180	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
JOH001JO	Johnson Rd, West Melton	160	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
JOW001JO	Jowers Rd West Melton	160	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
KIR001KI	Kirwee	1,100	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
LAK007LA	Lake Coleridge	148	Small	Local Authority	✓	✓	NR	✓	✓	✓	n/a	Yes	Implementing
LEE001LE	Leeston	2,350	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
LIN002LI	Lincoln	3,670	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

<b>Health Act</b>	69S Provision of drinking water	69U Source protection	69Y Monitoring	69Z Water safety plans	69ZD Records	69ZE Complaints	69ZF Remedial action
<b>Mini Key</b>	✓ Met requirements	×	Failed requirements	n/a Not applicable	NR Not met, not required yet		

Appendix 4. Requirements of the Health Act

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
MAL001DA	Dalethorpe	183	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
MAL001MA	Malvern Hills, Hartleys Rd	1,409	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
PRE001PR	Prebbleton	2,920	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
RAK003RA	Rakaia Huts	313	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
ROL001RO	Rolleston	9,530	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
SEL001AC	Acheron	240	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
SEL001HO	Hororata	920	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
SHE004SH	Sheffield/Waddington	585	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
SOU001SO	Southbridge	992	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
SPR002SP	Springfield	520	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
SPR003SP	Springston	510	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
TAI009TA	Tai Tapu	606	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
WES010WE	West Melton	1,300	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**Ashburton District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
ASH003AS	Ashburton	18,500	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
CHE002CH	Chertsey	230	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
FAI001FA	Fairton	210	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Redrafting
HAK001HH	Hakaterere Upper	110	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
HIG002HI	Highbank Society Water Supply	220	Small	Communal	✓	✓	NR	✓	✓	✓	n/a	Yes	Implementing
HIN001HI	Hinds	340	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
LAK022LA	Lake Hood	300	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
LYN002LY	Lyndhurst	200	Small	Private Other	✓	✓	NR	✓	✓	✓	n/a	Yes	Implementing
MAY001MA	Mayfield	160	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Redrafting
MET001ME	Methven	1,700	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
MET002MS	Methven/Springfield	180	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
MTS001MS	Mt Somers Township	260	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Redrafting
RAK001RA	Rakaia Township	1,100	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

Appendix 4. Requirements of the Health Act

**Timaru District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
ARO002AO	Arowhenua	215	Small	Private Other	✓	✓	NR	NR	✓	✓	n/a	Yes	Redrafting
DOW001ST	Sutherlands/Taiko	3,000	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
DOW001WR	Waimate Rural	360	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
DOW001WT	Waitohi/Totara Valley	700	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
GER001GE	Geraldine	2,433	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
HAD001HA	Hadlow	312	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Approved
PAR002PA	Pareora	427	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
PEE001PF	Peel Forest	130	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Redrafting
PLE001PP	Pleasant Point	1,282	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
SEA001SE	Seadown	896	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
STA004ST	St Andrews	304	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Approved
TEM001OR	Orari	170	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TEM001TE	Temuka	4,200	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TEM002GD	Geraldine Downs	324	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TEM002GF	Geraldine Flat	180	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TEM002TE	Te Moana	710	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TIM001GL	Gleniti	3,400	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TIM001TI	Timaru	22,620	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WIN002WI	Winchester	250	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Approved

**Mackenzie District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
ALB001AL	Albury Rural	125	Small	Communal	NR	NR	NR	NR	×	×	×	No	Not Started
ALL001AL	Allandale	291	Small	Local Authority	✓	✓	NR	NR	✓	✓	✓	Yes	Not Started
FAI002FA	Fairlie	693	Minor	Local Authority	✓	✓	×	✓	✓	✓	n/a	No	Implementing
FAI002KI	Kimbell	150	Small	Local Authority	✓	✓	NR	✓	✓	✓	n/a	Yes	Implementing
MTC001MT	Mt Cook	200	Small	DOC	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
TEK005TE	Tekapo	369	Small	Local Authority	✓	✓	NR	✓	✓	✓	n/a	Yes	Implementing
TWI001TW	Twizel	1,137	Minor	Local Authority	✓	✓	×	✓	✓	✓	n/a	No	Approved

<b>Health Act</b>	69S Provision of drinking water	69U Source protection	69Y Monitoring	69Z Water safety plans	69ZD Records	69ZE Complaints	69ZF Remedial action
<b>Mini Key</b>	✓ Met requirements	×	Failed requirements	n/a Not applicable	NR Not met, not required yet		

Appendix 4. Requirements of the Health Act

**Waimate District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
CAN001CM	Cannington/Motukaika	120	Small	Local Authority	✓	✓	✓	NR	✓	✓	✓	Yes	Redrafting
HAK002HA	Hakataramea	165	Small	Communal	✓	✓	NR	NR	✓	✓	n/a	Yes	Draft
HOO001HW	Hook/Waituna	1,350	Minor	Local Authority	✓	✓	✓	×	✓	✓	✓	No	Redrafting
LOW002LO	Lower Waihao	600	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Redrafting
OTA005OM	Otaio/Makikihi	430	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAI031WA	Waihaorunga	141	Small	Local Authority	✓	✓	✓	NR	✓	✓	✓	Yes	Redrafting
WAI032WA	Waikakahi	360	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
WAI033WA	Waimate	3,000	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

**Waitaki District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
AWA001AW	Awamoko	399	Small	Local Authority	✓	✓	✓	NR	✓	n/a	n/a	Yes	Not Started
HAM002HA	Hampden	237	Small	Local Authority	✓	✓	✓	NR	✓	n/a	n/a	Yes	Submitted
HAM002MO	Moeraki	264	Small	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
HER001HE	Herbert	670	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
KAU001KA	Kauru Hill	197	Small	Local Authority	✓	✓	✓	NR	✓	✓	✓	Yes	Draft
KUR001KU	Kurow Township	330	Small	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
LOW004LO	Lower Waitaki	778	Minor	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
MAH001MA	Maheno	152	Small	Communal	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
OAM001AR	Oamaru, Ardgowan	252	Small	Local Authority	✓	✓	✓	NR	✓	n/a	n/a	Yes	Approved
OAM001CE	Oamaru, Central	4,622	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
OAM001KA	Oamaru, Kakanui	520	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
OAM001NE	Oamaru, North End	2,234	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
OAM001RR	Oamaru, Reservoir Road	768	Minor	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Approved
OAM001SH	Oamaru, South Hill	3,933	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
OAM001WE	Oamaru, Weston - Enfield	2,061	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Approved
OMA001OM	Omarama Town	270	Small	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
OTE001OT	Otematata Hydro Village	195	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
OTE002OT	Otekaieke Rural	140	Small	Local Authority	✓	✓	NR	NR	✓	✓	×	No	Not Started
TOK003TL	Tokarahi/Livingstone	573	Minor	Local Authority	✓	✓	✓	×	✓	n/a	n/a	No	Not Started
WAI215DU	Waihemo, Dunback Rural	229	Small	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
WAI215GO	Waihemo, Goodwood Rural	270	Small	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
WAI215PA	Waihemo, Palmerston Town	858	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WIN004WI	Windsor	137	Small	Local Authority	✓	✓	✓	NR	✓	n/a	n/a	Yes	Not Started

Appendix 4. Requirements of the Health Act

**Central Otago District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
ALE001AL	Alexandra	5,000	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
ALE002BE	Bennys	104	Small	Communal	✓	✓	NR	NR	✓	n/a	n/a	Yes	Not Started
CLY001CL	Clyde Township	1,000	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Submitted
CRO001BA	Bannockburn	400	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Submitted
CRO001CR	Cromwell	4,000	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Submitted
EAR002EA	Earnscleugh Water Scheme	120	Small	Private Other	✓	✓	NR	NR	✓	n/a	n/a	Yes	Draft
LAS003LA	Last Chance	120	Small	Communal	✓	✓	NR	✓	✓	n/a	n/a	Yes	Implementing
MIL006MI	Millers Flat	210	Small	Communal	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
NAS001NA	Naseby	150	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Submitted
OMA005OM	Omakau	350	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Submitted
PAT003PA	Patearoa	260	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Submitted
PIS001PI	Pisa Moorings	130	Small	Private Other	✓	✓	✓	NR	✓	✓	n/a	Yes	Not Started
PIS002PI	Pisa Village	250	Small	Local Authority	✓	✓	✓	NR	✓	✓	n/a	Yes	Submitted
RAN002RA	Ranfurly	750	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Submitted
ROX001RO	Roxburgh	700	Minor	Local Authority	✓	✓	✓	×	✓	✓	n/a	No	Submitted

**Dunedin City**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
DUN001BO	Booth Road, Dunedin	37,036	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
DUN001GI	Green Island	10,199	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
DUN001LL	Low Levels/Peninsula, Dunedin	37,726	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
DUN001MH	Maori Hill	13,785	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
DUN001PC	Port Chalmers	2,469	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
DUN001WI	Wingatui, Dunedin	1,124	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
MOS001EA	East Taieri	300	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
MOS001KI	Kinmont	341	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
MOS001QH	Quarry Hill	9,535	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
OUT001OU	Outram Township	750	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAI015WK	Waikouaiti/Karitane/Seacliff	1,642	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WES002WE	West Taieri Scheme	450	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

<b>Health Act</b>	69S Provision of drinking water	69U Source protection	69Y Monitoring	69Z Water safety plans	69ZD Records	69ZE Complaints	69ZF Remedial action
<b>Mini Key</b>	✓ Met requirements	×	Failed requirements	n/a Not applicable	NR Not met, not required yet		



Appendix 4. Requirements of the Health Act

**Clutha District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
BAL001BA	Balclutha	3,918	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
CLY005CL	Clinton Township	285	Small	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
CLY005RU	Clydevale-Pomahaka Rural	493	Small	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
GLE001GK	Glenkenich Rural	705	Minor	Local Authority	✓	✓	×	✓	✓	n/a	n/a	No	Implementing
KAI005KA	Kaitangata Township	762	Minor	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
LAW001LT	Lawrence	417	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
MIL001MT	Milton	1,929	Minor	Local Authority	✓	✓	×	✓	✓	✓	n/a	No	Implementing
MIL001OC	Otago Corrections Facility	600	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
MOA001MF	Moa Flat Rural	534	Minor	Local Authority	✓	✓	×	✓	✓	✓	n/a	No	Implementing
NOR003NB	North Bruce Rural	658	Minor	Local Authority	✓	✓	×	✓	✓	✓	n/a	No	Implementing
NOR003WT	Waiholo Township	270	Small	Local Authority	✓	✓	✓	✓	✓	n/a	✓	Yes	Implementing
OWA001OW	Owaka	303	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
RIC009KA	Kaka Point Township	222	Small	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
RIC009NO	Richardson Rural North	312	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
RIC009SO	Richardson Rural South	469	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
STI002SB	South Bruce Rural	305	Small	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
STI002ST	Stirling Township	303	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TAP001TA	Tapanui	726	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TUA004TW	Tuapeka West Rural	283	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAI016B1	Balmoral 1 Rural	247	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAI016B2	Balmoral 2 Rural	399	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAI016TE	Tuapeka East Rural	276	Small	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

Appendix 4. Requirements of the Health Act

**Queenstown Lakes District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
ARR001AR	Arrowtown	3,587	Minor	Local Authority	✓	✓	✓	✓	✓	✓	✓	Yes	Implementing
ART001AP	Arthurs Point	1,248	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
CAM008CA	Camphill Estate	132	Small	Communal	✓	✓	NR	NR	✓	✓	n/a	Yes	Draft
CAR005CA	Cardrona Township	300	Small	Communal	✓	✓	✓	NR	✓	✓	n/a	Yes	Draft
GLE003GL	Glenorchy	1,232	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
HAW002HA	Hawea	2,444	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
JAC002JA	Jacks Point	185	Small	Private Other	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
LAK003ES	Lake Hayes Estate	799	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
LAK003LH	Lake Hayes	1,697	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
LUG001LU	Luggate	855	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
QUE001KE	Kelvin Heights	4,400	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
QUE001QU	Queenstown	15,600	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAN002AL	Albert Town	506	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAN002WA	Wanaka	9,608	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
WAN007WA	Wanaka Airport	150	Small	Local Authority	✓	✓	✓	NR	✓	✓	✓	Yes	Draft

**Gore District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
GOR001GO	Gore	7,480	Medium	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
MAT002MA	Mataura	1,790	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
OTA004OT	Otama	300	Small	Local Authority	✓	NR	✓	NR	✓	✓	n/a	Yes	Not Started

**Invercargill City**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
INV001BL	Bluff	2,010	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
INV001IN	Invercargill City	51,696	Large	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing

<b>Health Act</b>	69S Provision of drinking water	69U Source protection	69Y Monitoring	69Z Water safety plans	69ZD Records	69ZE Complaints	69ZF Remedial action
<b>Mini Key</b>	✓ Met requirements	× Failed requirements	n/a Not applicable	NR Not met, not required yet			

Appendix 4. Requirements of the Health Act

**Southland District**

Zone Code	Distribution Zone	Population	Size	Type	69S	69U	69Y	69Z	69ZD	69ZE	69ZF	Met Requirements	PHRMP Status
EDE001ED	Edendale	558	Minor	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
EDE001WY	Wyndham	594	Minor	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
LUM001BA	Lumsden/Balfour Rural	608	Minor	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
LUM001LU	Lumsden	453	Small	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
MAN006MA	Manapouri	228	Small	Local Authority	✓	✓	✓	NR	✓	n/a	n/a	Yes	Draft
MIL007MI	Milford Sound	3,500	Minor	Private Other	✓	×	×	×	×	✓	n/a	No	Not Started
MOS002MO	Mossburn	201	Small	Local Authority	✓	✓	✓	NR	✓	n/a	n/a	Yes	Approved
OHA009NI	Nightcaps	306	Small	Local Authority	✓	✓	✓	NR	✓	n/a	n/a	Yes	Draft
OHA009OH	Ohai	303	Small	Local Authority	✓	✓	✓	NR	✓	n/a	n/a	Yes	Draft
OTA001OT	Otautau	798	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
RIV001RI	Riverton	1,506	Minor	Local Authority	✓	✓	✓	✓	✓	✓	n/a	Yes	Implementing
TEA002TE	Te Anau	2,628	Minor	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
TUA001TU	Tuatapere	561	Minor	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing
WIN001WI	Winton	2,436	Minor	Local Authority	✓	✓	✓	✓	✓	n/a	n/a	Yes	Implementing