

Report on Compliance with the Drinking-water Standards for New Zealand 2005 (revised 2008) and duties under Health Act 1956

For Period: **1st July 2016 – 31st June
2017**

Drinking Water Supply:

Harbour Town HAR005

Water Supplier:

Seaview District Council

Drinking Water Assessment Unit
PO Box, Somewhere

Report Identifier
HAR005_Harbourtown_DWSNZ2005/08Compliance_200817_v1

Terminology

Non-Compliance = Areas where the drinking water supply does not comply with the DWSNZ

Treatment Plants

Bacterial compliance is under section 4 of the DWSNZ2005/08

Protozoal compliance is under section 5 of the DWSNZ2005/08

Cyanotoxin compliance is under section 7 of the DWSNZ2005/08

Chemical compliance is under section 8 of the DWSNZ2005/08

Radiological compliance is under section 9 of the DWSNZ2005/08

Treatment Plant: Bacterial compliance

Summary of E.coli sampling results

Plant name	Number of samples required	Number of samples collected	Number of transgressions	Compliance
Harbour Town (TP1234)	12	12	0	Complied
New Harbour (TP5678)	12	27	1	Non Complied

Summary of compliance with sampling / analytical / remedial / operational requirements

Harbour Town plant (TP1234) achieved bacterial compliance. New Harbour plant (TP5678) experienced a transgression during the outbreak investigation in 2016 and therefore bacterial compliance was not achieved for this treatment plant. Increased monitoring was initiated as a result of this transgression, as required by DWSNZ table 4.5, and the bore was considered as provisionally secure. In addition the water supplier was reminded of the requirement under section 4.5.5 to confirm security criteria 2. Analysis of E.coli samples was undertaken at a Ministry of Health recognised laboratory.

Treatment Plant: Protozoa compliance

Plant Name	Protozoal Risk Category	Log Credit Required
Harbour Town (TP1234)	Non Secure groundwater	Not determined
New Harbour (TP5678)	Non Secure groundwater	Not determined

Summary of Compliance with Risk Categorisation process

All sources have been previously designated as secure groundwater and therefore no protozoa log credit was requirement (as per DWSNZ Table 5.1a). Last year's Compliance report (Report Identifier HarbourTownHAR005_DWSNZ2005/08Compliance_270916_v1) reminded the Council that as the security was established in 2011 that the 5 yearly re-assessment of the residency time and reviewing the bore head protection was due and should have been completed before the end of the compliance period (June 2017). No reports to confirm the re-assessment of residency time and the review of the

bore head security have been provided to this office. The bore sources feeding TP1234 and TP5678 are therefore no longer secure borewater under the DWSNZ2005/08.

Summary of Treatment Processes and associated Log Credits

Plant name	Treatment Process	Potential Log Credit Available	Summary of Turbidity results	Compliance with all other requirements of criterion	Log credit achieved
Harbour Town (TP1234)	None	None	N/A	No	No
New Harbour (TP5678)	None	None	N/A	No	No

Summary of Log Credit Assessment

Harbour Town (TP1234) and New Harbour (TP5678) did not achieve protozoa compliance.

Log Credit Total Achieved:

Harbour Town - None Protozoa none compliant
 New Harbour - None Protozoa none compliant

Treatment Plant: Cyanotoxin Compliance

Currently none of the treatment plants in this report are served by sources which are considered to be at risk of algal blooms developing. Therefore all treatment plants comply with this section of the DWSNZ2005/08.

Treatment Plant: Chemical compliance

The treatment plants have no chemicals of concern which are required to be monitored and therefore all plants meet chemical compliance.

Treatment Plant: Radiological compliance

Radiological testing was completed for all bores in December 2014. All results were less than 50% of the radiological MAVs. Therefore all plants comply with this section of the DWSNZ2005/08.

Distribution Zones

Distribution zone bacterial compliance is under section 4.4 of the DWSNZ2005/08
 Cyanotoxin compliance is under section 7 of the DWSNZ2005/08
 Chemical compliance is under section 8 of the DWSNZ2005/08

The following compliance information is derived from WINZ 6.

Distribution Zone: Bacterial compliance

Summary of E.coli sampling results

Distribution zone name	Number of samples required	Number of samples collected	Number of transgressions	Compliance
Harbour Town (HAR005HA)	64	74	1	Non Complied
New Harbour (HAR005NE)	52	64	1	Non Complied

Summary of compliance with general sampling / analytical / remedial action requirements

The required number of samples (16 and 13 per quarter respectively) were taken. Both Harbour Town and New Harbour distribution zones experienced a transgression during the Outbreak event of March 2017. These transgressions mean that neither distribution zone achieved bacterial compliance. Requirements concerning days of the week, sampling sites and analytical method were met. Follow up actions taken during the Harbour Town transgressions experienced during the Outbreak event were satisfactory.

Distribution Zone: Cyanotoxin Compliance

Not applicable to any of the distribution zones in Harbour Town.

Distribution Zone: Chemical compliance

There are no Priority 2 (P2) determinands assigned to the zones within Harbour Town, therefore full chemical compliance is met.

Summary of Audit Activities to Verify DWSNZ Monitoring Data

All sample results from the sampling contractor were reviewed. It is noted that the sampling contractor report on the contents of the laboratory results rather than forwarding the laboratory results directly to the Council. The water supplier should request to receive the laboratory results directly.

Summary of DWSNZ Compliance

Treatment Plants

Full compliance with the Drinking Water Standards for New Zealand 2005/2008 was achieved for neither of the treatment plants: Harbour Town (TP1234) and New Harbour (TP5678).

Distribution zones

Neither of the distribution zones: Harbour Town (HAR005HA) and New Harbour (HAR005NE) met full compliance with the Drinking Water Standards for New Zealand 2005/2008.

Assessment of Compliance with Duties of drinking-water suppliers under the Act

The duties of the water supplier under the Health Act have been fully met.

Section 69S – Duty of suppliers in relation to the provision of drinking water	Met
--	-----

This decision is based on the following – Information provided in the Water Safety Plan.

Section 69U – Duty to take reasonable steps to contribute to protection of source of drinking water	Met
---	-----

Following the March 2017 Salmonella outbreak within Harbour Town the water supplier has been working closely with the regional council to cover a range of topics, including liaison with/education of land owners within protection zones

Section 69ZD – Duty to keep records and make them available	Met
---	-----

This decision is based on the following – availability of records when requested.

Section 69ZE – Duty to investigate complaints	Met
---	-----

This decision is based on the following – description in WSP (will be audited when implementation undertaken this year).

The results in this report relate only to the compliance of the above listed treatment plants and distribution zones.

Please be aware that under the Health (Drinking Water) Amendment Act 2007, this supply falls into the category of a medium drinking water supply. Therefore the legal requirement to take all practicable steps to comply with the Drinking Water Standards applied from 1 July 2013. As Harbour Town has an approved WSP (approved June 2013) the supplier is considered to be 'taking all practicable steps' to comply with the Health Act.

Information in this report may be provided to the Ministry of Health at their request. With the exception of the Ministry of Health, this report shall not be reproduced without the approval of the Drinking Water Assessment Unit and Seaview District Council.

Completed: 20th August 2017

J Parsons

Jack Parsons

Drinking Water Assessor

South Island Drinking Water Assessment Unit (Christchurch)

Assessment Report Information

Report identifier	HAR005_Harbourtown_DWSNZ2005/08Compliance_200817_v1
Drinking Water Assessment Unit (Inspection Body)	DWAU PO Box Somewhere
Drinking Water Assessor	Jack Parsons
Assessment Date	27/9/16 - Covering compliance period 1 July 2015 to 30 June 2016
Description of assessment work	Assessment of Compliance with Drinking Water Standards for New Zealand 2005/08 for sources: Harbour Town wells: Well 1 G00288, Well 2 G00289, Well 3 G01234 and New Harbour wells: Well 4 G05678 and Well 5 G05699. Treatment plants: Harbour Town (TP1234) and New Harbour (TP5678) Distribution zones: Harbour Town (HAR005HA) and New Harbour (HAR005NE)
Equipment Used	Water Information New Zealand (WINZ) versions 6 was used to review compliance data.
Water Supply Owner / Person Responsible	Seaview District Council
Assessment method	Standard assessment as per Scope 1A Procedure Drinking Water Standards for New Zealand 2005(revised 2008)
Documents and Information	Drinking Water Standards for New Zealand 2005(revised2008) Part 2A Health Act 1956 Completed Drinking-water Quality Survey received 1/7/2017 And associated E.coli results sent by Arrow monitoring Ltd
Site of Assessment	DWAU offices
Omissions from proposed assessment	Nil
Sub-contracted work	Nil
Document checked by:	John Smith Drinking Water Assessor 21/8/17
Release of report authorised by:	Jack Parsons Drinking Water Assessor Signature: <i>J Parsons</i> Date: 22/8/17

If you do not agree with the findings of this report a written appeal must be lodged with the Technical Manager SIDWAU, P.O. Box 1475, Christchurch within 2 months of receipt of this report. The Technical Manager will arrange for a review to be undertaken using the Ministry of Health appeals procedure.