



Our ref: CWS_6_CRO004_CromwellPigeonRock

15 November 2011

Charlie Grant
Pigeon Rock Water Supply Company
Cornish Point Road
Cromwell
c/o P O Box 577
Wanaka

Dear Charlie

COMPLIANCE WITH DRINKING WATER STANDARDS FOR NEW ZEALAND 2005 (revised 2008) FOR PERIOD: 01/07/2010 to 30/06/2011

The annual compliance assessment for Cromwell Pigeon Rock drinking water supply has been completed. This assessment was against the requirements of the Drinking Water Standards for New Zealand 2005/08 (referred to as the 'Standards').

The Standards review your drinking water supply from source to tap and any treatment that it receives. Water testing undertaken at the 'start' is referred to as 'Treatment Plant' monitoring (even though there might not be any treatment) and further along the pipes is referred to as 'Distribution' monitoring.

The results of the compliance assessment are as follows:

Part A: Treatment Plant Compliance – Cromwell Pigeon Rock

Area of Compliance	Section of DWSNZ2005/08	Result
Bacterial	4	Exempt
Protozoa	5	Non-compliant
Chemical	8	Not applicable
Cyanotoxin	7	Not applicable
Radiological	9	Not applicable

1. Bacterial - Exempt:

Bacterial compliance is determined from the results of testing for *E. coli* (Escherichia Coliforms). If *E. coli* is present it means that you have faecal contamination in your water supply. The Standards tell you how many samples are required depending on the water source and supply population.

Your supply is exempted from bacterial monitoring because at the moment it supplies only to about 11 people based on your records.

As the number of dwelling increased as well as the population served the requirements for bacterial monitoring in accordance to the Standards are a minimum of 52 samples (*E. coli*) in a year, with sampling conducted on any 5 days in a week and the maximum interval between samples not exceeding 13 days.

2. Protozoa - Reason for non-compliance:

Protozoa are a type of pathogen that are hard to kill or remove from water and also difficult and expensive to find through testing. Therefore it is crucial to have effective treatment in place.

- The water supply has no treatment in place that is effective at removing / killing protozoa.

Protozoa compliance can be achieved in two ways:

- Having groundwater that meets the Drinking Water Standards definition of 'secure bore water'; or
- Having acceptable treatment in place that is effective at removing or inactivating protozoa (and is monitored to show that it is working). More information on acceptable treatment systems can be found in the Standards). Depending on your source water a combination of treatments may be necessary. We would encourage you to consult this office if you are considering installing new treatment equipment.

Other criteria in the Standards exist around cyanobacteria, radiological and chemical contamination but as far as we are aware these have not been shown to be a risk for your source water and are therefore currently not applicable.

Part B: Distribution Zone Compliance – Cromwell Pigeon Rock

Area of Compliance	Section of DWSNZ2005/08	Result
E. coli	4	Non-compliant
Chemical	8	Not applicable

1. E. coli - Reasons for non-compliance:

- Only 3 samples were taken and tested for E. coli (To meet the Standards' requirements a minimum of 12 samples must be taken over the 12-month period. Sampling must be carried out on any 2 days of a week with the maximum interval between samples not exceeding 45 days.

2. Chemical – Not applicable:

- There is no requirement to monitor chemicals for your supply because the water supply has not been assessed to determine whether there are chemicals of concern that require monitoring. Monitoring of specific chemicals is only required when these chemicals are demonstrated to be present at elevated levels in your supply.

Please be aware that under Part 2A of the Health Act your drinking water supply is called a neighbourhood drinking water supply and legally required to take all practicable steps to comply with the Standards by the 01 July 2016. However, meeting the requirements of the Standards is strongly encouraged by this office.

Section 10 of the Standards has an alternative section for supplies serving less than 500 people. You may wish to investigate these compliance options. A copy of this section can be obtained by visiting <http://moh.govt.nz/moh.nsf/pagesmh/8534>.

Further technical advice can be obtained through the Ministry of Health's Technical Assistance Programme (TAP), free of charge. This programme is aimed at small suppliers to help them to understand and improve the technical operation of their supplies. Information can be obtained by contacting Mr Neil Cavaney, Public Health South Invercargill at (03) 211 0900.

If you do not agree with any of the findings of this assessment then an appeal may be lodged with the Technical Manager, South Island Drinking Water Assessment Unit, P O Box 1475, Christchurch 8140. The appeal must be made within two months of receipt of this letter.

If you have any queries regarding these results please contact the undersigned on (03) 4769800.

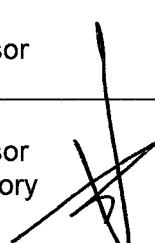
Summarised results of this survey will be published by the Ministry of Health in the 'Annual Review of Drinking-Water Quality in New Zealand'.

Yours sincerely



Michael Wong
Drinking Water Assessor
South Island Drinking Water Assessment Unit
Public Health South
Dunedin

ASSESSMENT REPORT INFORMATION

Report identifier	CRO004_CromwellPigeonRock_DWSNZ2005/08Compliance_091111_v1
Drinking Water Assessment Unit	South Island Drinking Water Assessment Unit Public Health South Main Block, Level 2 Wakari Hospital Taieri Road, Dunedin 9010 Private Bag 1921, Dunedin 9054 03 476 9800
Drinking Water Assessor	Michael Wong
Assessment Date	09/11/11 (covering compliance period 1 July 2010 to 30 June 2011)
Description of assessment work	Assessment of Compliance with Drinking Water Standards for New Zealand 2005 (revised 2008) for Cromwell Pigeon Rock (CRO004), Cromwell Pigeon Rock Bore (G01885), Cromwell Pigeon Rock Treatment Plant (TP02943) & Cromwell Pigeon Rock Distribution Zone (CRO004PGONS001ON)
Equipment Used	Water Information New Zealand (WINZ) versions 5.5 and 6.0 were used to review compliance data.
Water Supply Owner/Person Responsible	Pigeon Rock Water Supply Company Charlie Grant
Assessment method	<ul style="list-style-type: none"> • Standard assessment as per the National Drinking Water Assessors' Technical Manual Section 3 • Standard: Drinking Water Standards for New Zealand 2005 (revised 2008) • Part 2A Health Act 1956 (as amended by Health Drinking Water Amendment Act 2007)
Documents and Information	<ul style="list-style-type: none"> • Drinking Water Standards for New Zealand 2005/08 • Part 2A Health Act 1956 (as amended by Health Drinking Water Amendment Act 2007)
Site of Assessment	South Island Drinking Water Assessment Unit, Queenstown & Dunedin
Omissions from proposed assessment	Nil
Sub-contracted work	Nil
Document checked by:	Simon Ou Drinking Water Assessor 11/11/11
Release of report authorised by:	Michael Wong Drinking Water Assessor IANZ Approved Signatory  15/11/11