



ANALYSIS REPORT

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Client:	Tom MacRae	Lab No:	1266087	DWPv1
Contact:	Tom MacRae 13 Ross View Terrace Dinsdale HAMILTON 3204	Date Registered:	23-Apr-2014	
		Date Reported:	06-May-2014	
		Quote No:		
		Order No:		
		Client Reference:		
		Submitted By:	Tom MacRae	

Sample Type: Aqueous				
Sample Name:		1 Rain Water 14/3/14-15/3/14 11pm-11pm	Rain Water 10am-5:30pm 03-Apr-2014	
Lab Number:		1266087.1	1266087.2	
pH	pH Units	6.2	6.2	7.0 - 8.5
Total Aluminium	g/m ³	0.028	0.044	< 0.1
Total Barium	g/m ³	0.0050	0.0058	-
Total Strontium	g/m ³	0.0059	0.0034	-

Note: The Guideline Values and Maximum Acceptable Values (MAV) are taken from the publication 'Drinking-water Standards for New Zealand 2005 (Revised 2008)', Ministry of Health. Copies of this publication are available from <http://www.moh.govt.nz/moh.nsf/pagesmh/8534>

The Maximum Acceptable Values (MAVs) have been defined by the Ministry of Health for parameters of health significance and should not be exceeded. The Guideline Values are the limits for aesthetic determinands that, if exceeded, may render the water unattractive to consumers.

Note that the units g/m³ are the same as mg/L and ppm.

SUMMARY OF METHODS

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively clean matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis.

Sample Type: Aqueous			
Test	Method Description	Default Detection Limit	Sample No
Total Digestion	Boiling nitric acid digestion. APHA 3030 E 22 nd ed. 2012 (modified).	-	1-2
pH	pH meter. APHA 4500-H ⁺ B 22 nd ed. 2012.	0.1 pH Units	1-2
Total Aluminium	Nitric acid digestion, ICP-MS, trace level. APHA 3125 B 22 nd ed. 2012 / US EPA 200.8.	0.0032 g/m ³	1-2
Total Barium	Nitric acid digestion, ICP-MS, trace level. APHA 3125 B 22 nd ed. 2012 / US EPA 200.8.	0.00011 g/m ³	1-2
Total Strontium	Nitric acid digestion, ICP-MS, trace level. APHA 3125 B 22 nd ed. 2012.	0.00053 g/m ³	1-2

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Samples are held at the laboratory after reporting for a length of time depending on the preservation used and the stability of the analytes being tested. Once the storage period is completed the samples are discarded unless otherwise advised by the client.

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Peter Robinson MSc (Hons), PhD, FNZIC
Client Services Manager - Environmental Division



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