

Watercare Services Limited

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Certificate of Analysis Laboratory Reference:230116-043

Attention: Nz Queenstown Lab Results

7300228298

Client: VEOLIA WATER

Address

Client Reference:

Purchase Order:

74 Glenda Drive, Frankton, Queenstown, 9300

Sampled By:

Final Report:

Report Issue Date: Received Date: 16-Jan-2023

Laboratory Activity Dates: 16-Jan-2023 25-Jan-2023

493436-0

26-Jan-2023

Quote Reference: 48

Sample Details		WATERS	WATERS	
Lab Sample ID:		230116-043-1	230116-043-2	
Client Sample ID:		S2050	GLE014GL	
Sample Date/Time		16/01/2023 09:40	16/01/2023 09:55	
Description:		Glendhu Bay Source	GLE014GL Glendhu	
			Bay - Far End	
Micro Summary View				
Escherichia coli	MPN/100mL	<1.0	-	
Total Coliforms	MPN/100mL	<1.0	-	
Chemistry Detailed				
Anions				
Chloride	mg/L	1.68 ± 0.084	-	
Sulphate	mg/L	3.7 ± 0.45	-	
Sample Parameters and Field Testing				
Residual Free Chlorine (as Cl2)	mg/L	-	0.54 ± 0.027	
Sampled by Watercare Laboratory		Yes	Yes	
Services				
General Testing				
Total Alkalinity (as CaCO3)	mg/L	31	-	
Metals				
Total Metals by ICP-MS—Trace (Default Did	qest)			
Antimony (Total)	mg/L	<0.001	-	
Arsenic (Total)	mg/L	0.0007 ± 0.00014	-	
Barium (Total)	mg/L	0.0042 ± 0.00068	-	
Cadmium (Total)	mg/L	<0.00005	-	
Calcium (Total)	mg/L	11 ± 1.7	-	
Chromium (Total)	mg/L	<0.0005	-	
Copper (Total)	mg/L	0.0038 ± 0.00071	-	
Lead (Total)	mg/L	0.00084 ± 0.00014	-	
Magnesium (Total)	mg/L	0.6 ± 0.13	-	
Mercury (Total)	mg/L	<0.00005	-	
Nickel (Total)	mg/L	0.00024 ± 0.000042	-	
Sodium (Total)	mg/L	1.5 ± 0.32	-	

Results marked with * are not accredited to International Accreditation New Zealand. A dash indicates no test performed.

Where samples have been supplied by the client, they are tested as received.

The results of analysis contained in this report relate only to the sample(s) tested. Where sample collection was performed by the laboratory, the results of analysis contained in this report relate only to the sample(s) collected.

Reference Methods

The sample(s) referred to in this report were	analysed by the following method(s)			
Analyte	Method Reference	MDL	Samples	Location
Micro Summary View				
Escherichia coli	APHA (online edition) 9223 B	1 MPN/100mL	1	Queenstown
Total Coliforms	APHA (online edition) 9223 B	1 MPN/100mL	1	Queenstown
Chemistry Detailed				



Queenstown

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Chemistry Detailed				
Anions				
Chloride	APHA (online edition) 4110 B	0.02 mg/L	1	Auckland
Sulphate	APHA (online edition) 4110 B	0.02 mg/L	1	Auckland
Sample Parameters and Field Testing				
Residual Free Chlorine (as Cl2)	APHA (online edition) 4500-Cl G	0.02 mg/L	2	At site
Sampled by Watercare Laboratory Services	AS/NZS 5667 Part 4 (Lakes), Part 5 (Drinking Water), Part 6 (Rivers/Streams), Part 7 (Boiler s), Part 9 (Marine), Part 10 (Waste Waters), Part 11 (Groundwaters) and In-House Methods		All	At site
General Testing				
Total Alkalinity (as CaCO3) by Titration	APHA (online edition) 2320 B	1 mg/L	1	Auckland
Metals				
Total Metals by ICP-MS—Trace (Default Digest)				
Antimony (Total)	APHA (online edition) 3125 B by ICPMS	0.001 mg/L	1	Auckland
Arsenic (Total)	APHA (online edition) 3125 B by ICPMS	0.0001 mg/L	1	Auckland
Barium (Total)	APHA (online edition) 3125 B by ICPMS	0.0002 mg/L	1	Auckland
Cadmium (Total)	APHA (online edition) 3125 B by ICPMS	0.00005 mg/L	1	Auckland
Calcium (Total)	APHA (online edition) 3125 B by ICPMS	0.01 mg/L	1	Auckland
Chromium (Total)	APHA (online edition) 3125 B by ICPMS	0.0005 mg/L	1	Auckland
Copper (Total)	APHA (online edition) 3125 B by ICPMS	0.0002 mg/L	1	Auckland
Lead (Total)	APHA (online edition) 3125 B by ICPMS	0.0001 mg/L	1	Auckland
Magnesium (Total)	APHA (online edition) 3125 B by ICPMS	0.001 mg/L	1	Auckland
Mercury (Total)	APHA (online edition) 3125 B by ICPMS	0.00005 mg/L	1	Auckland
Nickel (Total)	APHA (online edition) 3125 B by ICPMS	0.0001 mg/L	1	Auckland
Sodium (Total)	APHA (online edition) 3125 B by ICPMS	0.1 mg/L	1	Auckland
Preparations				
Digest for Total Metals in Liquids	APHA 3030E Modified (4:1 Nitric:Hydrochloric Acid: 95°C 2 hours)		1	Auckland
Membrane Filtration (0.45 μm)	APHA (online edition) 4500-P B (preliminary filtration)		1	Auckland

Samples, with suitable preservation and stability of analytes, will be held by the laboratory for a period of two weeks after results have been reported, unless otherwise advised by the submitter.

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Money

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