

OIR: 2223/569

15 June 2023

[REDACTED]
[REDACTED]

Tēnā koe [REDACTED]

Request for Information under the Local Government and Official Information and Meetings Act 1987 (the Act) (the LGOIMA)

Thank you for your email of 31 May 2023 requesting:

I'd also like to see the most recent test analysis of the water composition delivered to households after treatment

You clarified your request via email received on 2 June 2023

To clarify what I would like to see is the full list of the ingredients of the water after treatment that is delivered to both the Paraparaumu and the Waikanae households, preferably from the last 3 years, if there are annual reports of say a date in January in each of the last three years.

Please find attached test analysis.

Ngā mihi



Sean Mallon
Group Manager Infrastructure Services
Te Kaihautū Ratonga Pakiaka

Please note that any information provided in response to your request may be published on the Council website, with your personal details removed.

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-22-NW-029855-01** REPORT DATE **27/08/2022**

Attention Kapiti Coast District Council
Kim Mazur
175 Rimu Road
5032 Paraparaumu
NEW ZEALAND

Phone +64275554729

Email Kim.Mazur@kapiticoast.govt.nz

Copy to: [REDACTED]

Contact for your orders: Lauren May
Contract: Kapiti DC Water Treatment Plant
Submission Reference: KCDC Region 3 testing

Order code: EUNZWE-00050376

Purchase Order Number: 360590

SAMPLE CODE **812-2022-00081071**

Client Reference: WI

Sampling Point NW0002254030:Region 3 - Waikanae Intake - RAW

Reception Date & Time: 11/08/2022 14:15

Analysis Start Date & Time: 11/08/2022 16:21

Sampled Date & Time 11/08/2022 11:22

Analysis Ending Date: 23/08/2022

Sampler(s) Marcus - Tama

RESULTS

LOQ

NW068 Aluminium - Acid Soluble

Aluminium 0.117 mg/l 0.002

NW179 Ammonia Nitrogen

Ammoniacal nitrogen (N) <0.01 mg/l 0.01

NW069 Antimony - Acid Soluble

Antimony (Sb) <0.001 mg/l 0.001

NW070 Arsenic - Acid Soluble

Arsenic (As) <0.001 mg/l 0.001

NW484 Barium - Acid Soluble

Barium (Ba) 0.004 mg/l 0.002

NW485 Beryllium - Acid Soluble

Beryllium (Be) <0.0005 mg/l 0.0005

NW072 Boron - Acid Soluble

Boron (B) <0.03 mg/l 0.03

NW865 Bromate Ultra trace

Bromate <0.005 mg/l 0.005

NW073 Cadmium - Acid Soluble

Cadmium (Cd) <0.0002 mg/l 0.0002

NW051 Calcium - Acid Soluble

Calcium (Ca) 4.30 mg/l 0.05

NW012 Chlorate

Chlorate <0.005 mg/l 0.005

NW007 Chloride

Chloride (Cl) 15.7 mg/l 0.02

NW013 Chlorite

Chlorite <0.005 mg/l 0.005

Food & Water Testing

	RESULTS		LOQ
NW04S Chlorophenol			
2-Chlorophenol	<0.01	mg/l	5e-005
NW076 Chromium - Acid Soluble			
Chromium (Cr)	<0.001	mg/l	0.001
NW022 Colour at 455nm			
Colour	5.3	Colour unit	0.1
NW078 Copper - Acid Soluble			
Copper (Cu)	<0.0005	mg/l	0.0005
NW679 Cyanide			
Cyanide	<0.005	mg/l	0.005
NW006 Fluoride			
Fluoride	0.07	mg/l	0.02
NW029 Hardness			
Hardness	18	mg CaCO ₃ /l	1
NW351 Hydrogen Sulphide			
Sulphide	<0.05	mg/l	0.05
NW055 Iron - Acid Soluble			
Iron (Fe)	0.098	mg/l	0.005
NW080 Lead - Acid Soluble			
Lead (Pb)	<0.0005	mg/l	0.0005
NW081 Lithium - Acid Soluble			
Lithium (Li)	0.0012	mg/l	0.0005
NW058 Magnesium - Acid Soluble			
Magnesium (Mg)	1.69	mg/l	0.01
NW083 Manganese - Acid Soluble			
Manganese (Mn)	0.0040	mg/l	0.0005
NW084 Mercury - Acid Soluble			
Mercury (Hg)	<0.0005	mg/l	0.0005
NW085 Molybdenum - Acid Soluble			
Molybdenum (Mo)	<0.0005	mg/l	0.0005
NW086 Nickel - Acid Soluble			
Nickel (Ni)	0.0018	mg/l	0.0005
NW010 Nitrate-N			
Nitrate-N	0.34	mg/l	0.01
NW008 Nitrite-N			
Nitrite	<0.01	mg/l	0.01
NW195 pH			
pH	7.0		0.1
NW089 Selenium - Acid Soluble			
Selenium (Se)	<0.002	mg/l	0.002
NW090 Silver - Acid Soluble			
Silver (Ag)	<0.0005	mg/l	0.0005
NW065 Sodium - Acid Soluble			

Food & Water Testing

	RESULTS		LOQ
NW065 Sodium - Acid Soluble			
Sodium (Na)	11.4	mg/l	0.05
NW011 Sulphate			
Sulphate	4.14	mg/l	0.02
NW003 Total Alkalinity			
Alkalinity total	68	mg CaCO ₃ /l	1
NW208 Total Dissolved Solids			
Total dissolved Solids	58	mg/l	10
NW212 Turbidity			
Turbidity	4.87	NTU	0.01
NW097 Uranium - Acid Soluble			
Uranium (U)	<0.0002	mg/l	0.0002
NW229 VOC (GC-MS)			
1,1,1,2-Tetrachloroethane	<0.0005	mg/l	0.0005
1,1,1-Trichloroethane	<0.0005	mg/l	0.0005
1,1,2,2-tetrachloroethane	<0.0005	mg/l	0.0005
1,1,2-Trichloroethane	<0.0005	mg/l	0.0005
1,1-Dichloroethane	<0.0005	mg/l	0.0005
1,1-Dichloroethene	<0.0005	mg/l	0.0005
1,1-Dichloropropene	<0.0005	mg/l	0.0005
1,2,3-Trichlorobenzene	<0.0005	mg/l	0.0005
1,2,3-Trichloropropane	<0.0005	mg/l	0.0005
1,2,4 trimethylbenzen	<0.0005	mg/l	0.0005
1,2,4-Trichlorobenzene	<0.0005	mg/l	0.0005
1,2-Dibromo-3-chloropropane	<0.001	mg/l	0.002
1,2-Dibromoethane	<0.0002	mg/l	0.0002
1,2-Dichlorobenzene (2)	<0.0005	mg/l	0.0005
1,2-Dichloroethane	<0.0005	mg/l	0.0005
1,2-Dichloropropane	<0.0005	mg/l	0.0005
1,3,5-Trichlorobenzene	<0.0005	mg/l	0.0005
1,3,5-Trimethylbenzene	<0.0005	mg/l	0.0005
1,3-Dichlorobenzene	<0.0005	mg/l	0.0005
1,3-Dichloropropane	<0.0005	mg/l	0.0005
1,4-dichlorobenzene	<0.0005	mg/l	0.0005
2,2-Dichloropropane	<0.0005	mg/l	0.0005
2-Chlorotoluene	<0.0005	mg/l	0.0005
3-chloropropene	NotRecovered	mg/l	0.0005
4-Chlorotoluene	<0.0005	mg/l	0.0005
4-methyl-2-pentanone	NotRecovered	mg/l	0.0005
Benzene	<0.0005	mg/l	0.0005
Bromobenzene	<0.0010	mg/l	0.0005
Bromochloromethane	<0.0012	mg/l	0.0012
Bromodichloromethane	<0.0005	mg/l	0.0005
Bromoform	<0.0005	mg/l	0.0005
Bromomethane (zone 2)	<0.001	mg/l	0.001
Carbon tetrachloride	<0.0005	mg/l	0.0005
Carbondisulphide (CS ₂)	<0.0005	mg/l	0.0005

Food & Water Testing

	RESULTS	LOQ
NW229 VOC (GC-MS)		
Chlorobenzene	<0.0005 mg/l	0.0005
Chloroethane	<0.001 mg/l	0.001
Chloroform	<0.0005 mg/l	0.0005
Chloromethane	<0.006 mg/l	0.006
cis-1,2-Dichloroethene	<0.0005 mg/l	0.0005
cis-1,3-Dichloropropene	<0.0005 mg/l	0.0005
Dibromochloromethane	<0.0005 mg/l	0.0005
Dibromomethane	<0.0005 mg/l	0.0005
Dichlorodifluoromethane	NotRecovered mg/l	0.001
Dichloromethane	NotRecovered mg/l	0.005
Hexachlorobutadiene	<0.0002 mg/l	0.0002
Isopropylbenzene (Cumene)	<0.0005 mg/l	0.0005
m,p-Xylene, Ethylbenzene	<0.0015 mg/l	0.0015
Naphthalene	<0.0005 mg/l	0.0005
n-Butylbenzene	<0.0005 mg/l	0.0005
n-Propylbenzene	<0.0005 mg/l	0.0005
p-Isopropyltoluene	<0.0005 mg/l	0.0005
sec-Butylbenzene	<0.0005 mg/l	0.0005
Styrene	<0.0005 mg/l	0.0005
tert-Butylbenzene	<0.0005 mg/l	0.0005
Tetrachloroethene	<0.0005 mg/l	0.0005
Toluene	<0.0005 mg/l	0.0005
trans-1,2-Dichloroethene	<0.0005 mg/l	0.0005
trans-1,3-Dichloropropene	<0.0005 mg/l	0.0005
Trichloroethene	<0.0005 mg/l	0.0005
Trichlorofluoromethane	<0.0005 mg/l	0.0005
Vinyl chloride	<0.0005 mg/l	0.0005
Xylene (ortho-)	<0.0005 mg/l	0.0005
NW096 Zinc - Acid Soluble		
Zinc (Zn)	<0.002 mg/l	0.002

SAMPLE CODE	812-2022-00081072
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Client Reference:	WPO		
Sampling Point	NW0002254031:Region 3 - Waikanae Plant Out (Clearwell)		
Reception Date & Time:	11/08/2022 14:15		
Analysis Start Date & Time:	11/08/2022 16:21	Analysis Ending Date:	27/08/2022
Sampled Date & Time	11/08/2022 11:42	Sampler(s)	Marcus - Tama

	RESULTS	LOQ
NW068 Aluminium - Acid Soluble		
Aluminium	0.015 mg/l	0.002
NW179 Ammonia Nitrogen		
Ammoniacal nitrogen (N)	<0.01 mg/l	0.01
NW069 Antimony - Acid Soluble		
Antimony (Sb)	<0.001 mg/l	0.001
NW070 Arsenic - Acid Soluble		
Arsenic (As)	<0.001 mg/l	0.001

Food & Water Testing

	RESULTS		LOQ
NW484 Barium - Acid Soluble			
Barium (Ba)	0.004	mg/l	0.002
NW485 Beryllium - Acid Soluble			
Beryllium (Be)	<0.0005	mg/l	0.0005
NW072 Boron - Acid Soluble			
Boron (B)	<0.03	mg/l	0.03
NW865 Bromate Ultra trace			
Bromate	<0.005	mg/l	0.005
NW073 Cadmium - Acid Soluble			
Cadmium (Cd)	<0.0002	mg/l	0.0002
NW051 Calcium - Acid Soluble			
Calcium (Ca)	5.90	mg/l	0.05
NW012 Chlorate			
Chlorate	<0.005	mg/l	0.005
NW007 Chloride			
Chloride (Cl)	19.8	mg/l	0.02
NW013 Chlorite			
Chlorite	<0.005	mg/l	0.005
NW04S Chlorophenol			
2-Chlorophenol	<0.01	mg/l	5e-005
NW076 Chromium - Acid Soluble			
Chromium (Cr)	<0.001	mg/l	0.001
NW022 Colour at 455nm			
Colour	0.5	Colour unit	0.1
NW078 Copper - Acid Soluble			
Copper (Cu)	0.0025	mg/l	0.0005
NW679 Cyanide			
Cyanide	<0.005	mg/l	0.005
NW006 Fluoride			
Fluoride	0.64	mg/l	0.02
NW01X HAA MAV Sum Ratio			
Sum of haloacetic acids	<0.3		0.3
NW01W Haloacetic Acid			
Bromochloroacetic acid	<0.005	mg/l	0.005
Chloroacetic acid	<0.005	mg/l	0.005
Dibromoacetic acid	<0.005	mg/l	0.005
Dichloroacetic acid	<0.005	mg/l	0.005
Monobromoacetic acid	<0.005	mg/l	0.005
Trichloroacetic acid	<0.05	mg/l	0.05
⑤NW0AI Halogenated Volatile Disinfection By-Products			
See document attached as annex to the report	See report attached		-
NW029 Hardness			
Hardness	21	mg CaCO ₃ /l	1

Food & Water Testing

	RESULTS		LOQ
NW351 Hydrogen Sulphide			
Sulphide	<0.05	mg/l	0.05
NW055 Iron - Acid Soluble			
Iron (Fe)	0.009	mg/l	0.005
NW080 Lead - Acid Soluble			
Lead (Pb)	<0.0005	mg/l	0.0005
NW081 Lithium - Acid Soluble			
Lithium (Li)	0.0012	mg/l	0.0005
NW058 Magnesium - Acid Soluble			
Magnesium (Mg)	1.58	mg/l	0.01
NW083 Manganese - Acid Soluble			
Manganese (Mn)	0.0014	mg/l	0.0005
NW084 Mercury - Acid Soluble			
Mercury (Hg)	<0.0005	mg/l	0.0005
NW085 Molybdenum - Acid Soluble			
Molybdenum (Mo)	<0.0005	mg/l	0.0005
NW086 Nickel - Acid Soluble			
Nickel (Ni)	<0.0005	mg/l	0.0005
NW010 Nitrate-N			
Nitrate-N	0.33	mg/l	0.01
NW008 Nitrite-N			
Nitrite	<0.01	mg/l	0.01
NW195 pH			
pH	7.2		0.1
NW089 Selenium - Acid Soluble			
Selenium (Se)	<0.002	mg/l	0.002
NW090 Silver - Acid Soluble			
Silver (Ag)	<0.0005	mg/l	0.0005
NW065 Sodium - Acid Soluble			
Sodium (Na)	10.5	mg/l	0.05
NW011 Sulphate			
Sulphate	5.05	mg/l	0.02
NW003 Total Alkalinity			
Alkalinity total	16	mg CaCO ₃ /l	1
NW208 Total Dissolved Solids			
Total dissolved Solids	60	mg/l	10
NW212 Turbidity			
Turbidity	0.42	NTU	0.01
NW097 Uranium - Acid Soluble			
Uranium (U)	<0.0002	mg/l	0.0002
NW229 VOC (GC-MS)			
1,1,1,2-Tetrachloroethane	<0.0005	mg/l	0.0005
1,1,1-Trichloroethane	<0.0005	mg/l	0.0005
1,1,2,2-tetrachloroethane	<0.0005	mg/l	0.0005

Food & Water Testing

	RESULTS	LOQ
NW229 VOC (GC-MS)		
1,1,2-Trichloroethane	<0.0005 mg/l	0.0005
1,1-Dichloroethane	<0.0005 mg/l	0.0005
1,1-Dichloroethene	<0.0005 mg/l	0.0005
1,1-Dichloropropene	<0.0005 mg/l	0.0005
1,2,3-Trichlorobenzene	<0.0005 mg/l	0.0005
1,2,3-Trichloropropane	<0.0005 mg/l	0.0005
1,2,4 trimethylbenzen	<0.0005 mg/l	0.0005
1,2,4-Trichlorobenzene	<0.0005 mg/l	0.0005
1,2-Dibromo-3-chloropropane	<0.001 mg/l	0.002
1,2-Dibromoethane	<0.0002 mg/l	0.0002
1,2-Dichlorobenzene (2)	<0.0005 mg/l	0.0005
1,2-Dichloroethane	<0.0005 mg/l	0.0005
1,2-Dichloropropane	<0.0005 mg/l	0.0005
1,3,5-Trichlorobenzene	<0.0005 mg/l	0.0005
1,3,5-Trimethylbenzene	<0.0005 mg/l	0.0005
1,3-Dichlorobenzene	<0.0005 mg/l	0.0005
1,3-Dichloropropane	<0.0005 mg/l	0.0005
1,4-dichlorobenzene	<0.0005 mg/l	0.0005
2,2-Dichloropropane	<0.0005 mg/l	0.0005
2-Chlorotoluene	<0.0005 mg/l	0.0005
3-chloropropene	NotRecovered mg/l	0.0005
4-Chlorotoluene	<0.0005 mg/l	0.0005
4-methyl-2-pentanone	NotRecovered mg/l	0.0005
Benzene	<0.0005 mg/l	0.0005
Bromobenzene	<0.0010 mg/l	0.0005
Bromochloromethane	<0.0012 mg/l	0.0012
Bromodichloromethane	0.0006 mg/l	0.0005
Bromoform	0.0008 mg/l	0.0005
Bromomethane (zone 2)	<0.001 mg/l	0.001
Carbon tetrachloride	<0.0005 mg/l	0.0005
Carbondisulphide (CS ₂)	<0.0005 mg/l	0.0005
Chlorobenzene	<0.0005 mg/l	0.0005
Chloroethane	<0.001 mg/l	0.001
Chloroform	<0.0005 mg/l	0.0005
Chloromethane	<0.006 mg/l	0.006
cis-1,2-Dichloroethene	<0.0005 mg/l	0.0005
cis-1,3-Dichloropropene	<0.0005 mg/l	0.0005
Dibromochloromethane	0.0011 mg/l	0.0005
Dibromomethane	<0.0005 mg/l	0.0005
Dichlorodifluoromethane	NotRecovered mg/l	0.001
Dichloromethane	NotRecovered mg/l	0.005
Hexachlorobutadiene	<0.0002 mg/l	0.0002
Isopropylbenzene (Cumene)	<0.0005 mg/l	0.0005
m,p-Xylene, Ethylbenzene	<0.0015 mg/l	0.0015
Naphthalene	<0.0005 mg/l	0.0005
n-Butylbenzene	<0.0005 mg/l	0.0005
n-Propylbenzene	<0.0005 mg/l	0.0005
p-Isopropyltoluene	<0.0005 mg/l	0.0005

Food & Water Testing

	RESULTS	LOQ
NW229 VOC (GC-MS)		
sec-Butylbenzene	<0.0005 mg/l	0.0005
Styrene	<0.0005 mg/l	0.0005
tert-Butylbenzene	<0.0005 mg/l	0.0005
Tetrachloroethene	<0.0005 mg/l	0.0005
Toluene	<0.0005 mg/l	0.0005
trans-1,2-Dichloroethene	<0.0005 mg/l	0.0005
trans-1,3-Dichloropropene	<0.0005 mg/l	0.0005
Trichloroethene	<0.0005 mg/l	0.0005
Trichlorofluoromethane	<0.0005 mg/l	0.0005
Vinyl chloride	<0.0005 mg/l	0.0005
Xylene (ortho-)	<0.0005 mg/l	0.0005
NW096 Zinc - Acid Soluble		
Zinc (Zn)	0.004 mg/l	0.002

SAMPLE CODE 812-2022-00081073

Client Reference: WR
Sampling Point NW0002254032:Region 3 - Waikanae Reticulation
Reception Date & Time: 11/08/2022 14:15
Analysis Start Date & Time: 11/08/2022 16:21
Sampled Date & Time 11/08/2022 11:15
Analysis Ending Date: 27/08/2022
Sampler(s) Marcus - Tama

	RESULTS	LOQ
NW068 Aluminium - Acid Soluble		
Aluminium	0.021 mg/l	0.002
NW179 Ammonia Nitrogen		
Ammoniacal nitrogen (N)	<0.01 mg/l	0.01
NW069 Antimony - Acid Soluble		
Antimony (Sb)	<0.001 mg/l	0.001
NW070 Arsenic - Acid Soluble		
Arsenic (As)	<0.001 mg/l	0.001
NW484 Barium - Acid Soluble		
Barium (Ba)	0.004 mg/l	0.002
NW485 Beryllium - Acid Soluble		
Beryllium (Be)	<0.0005 mg/l	0.0005
NW072 Boron - Acid Soluble		
Boron (B)	<0.03 mg/l	0.03
NW865 Bromate Ultra trace		
Bromate	<0.005 mg/l	0.005
NW073 Cadmium - Acid Soluble		
Cadmium (Cd)	<0.0002 mg/l	0.0002
NW051 Calcium - Acid Soluble		
Calcium (Ca)	8.16 mg/l	0.05
NW012 Chlorate		
Chlorate	<0.005 mg/l	0.005
NW007 Chloride		

Food & Water Testing

	RESULTS		LOQ
NW007 Chloride			
Chloride (Cl)	18.1 mg/l		0.02
NW013 Chlorite			
Chlorite	<0.005 mg/l		0.005
NW04S Chlorophenol			
2-Chlorophenol	<0.01 mg/l		5e-005
NW076 Chromium - Acid Soluble			
Chromium (Cr)	<0.001 mg/l		0.001
NW022 Colour at 455nm			
Colour	0.6 Colour unit		0.1
NW078 Copper - Acid Soluble			
Copper (Cu)	<0.0005 mg/l		0.0005
NW679 Cyanide			
Cyanide	<0.005 mg/l		0.005
NW006 Fluoride			
Fluoride	0.46 mg/l		0.02
NW01X HAA MAV Sum Ratio			
Sum of haloacetic acids	<0.3		0.3
NW01W Haloacetic Acid			
Bromochloroacetic acid	<0.005 mg/l		0.005
Chloroacetic acid	<0.005 mg/l		0.005
Dibromoacetic acid	<0.005 mg/l		0.005
Dichloroacetic acid	<0.005 mg/l		0.005
Monobromoacetic acid	<0.005 mg/l		0.005
Trichloroacetic acid	<0.05 mg/l		0.05
⑤NW0AI Halogenated Volatile Disinfection By-Products			
See document attached as annex to the report	See report attached		-
NW029 Hardness			
Hardness	27 mg CaCO ₃ /l		1
NW351 Hydrogen Sulphide			
Sulphide	<0.05 mg/l		0.05
NW055 Iron - Acid Soluble			
Iron (Fe)	0.049 mg/l		0.005
NW080 Lead - Acid Soluble			
Lead (Pb)	<0.0005 mg/l		0.0005
NW081 Lithium - Acid Soluble			
Lithium (Li)	0.0010 mg/l		0.0005
NW058 Magnesium - Acid Soluble			
Magnesium (Mg)	1.61 mg/l		0.01
NW083 Manganese - Acid Soluble			
Manganese (Mn)	0.0054 mg/l		0.0005
NW084 Mercury - Acid Soluble			
Mercury (Hg)	<0.0005 mg/l		0.0005

Food & Water Testing

	RESULTS		LOQ
NW085 Molybdenum - Acid Soluble			
Molybdenum (Mo)	<0.0005	mg/l	0.0005
NW086 Nickel - Acid Soluble			
Nickel (Ni)	<0.0005	mg/l	0.0005
NW010 Nitrate-N			
Nitrate-N	0.32	mg/l	0.01
NW008 Nitrite-N			
Nitrite	<0.01	mg/l	0.01
NW195 pH			
pH	7.3		0.1
NW089 Selenium - Acid Soluble			
Selenium (Se)	<0.002	mg/l	0.002
NW090 Silver - Acid Soluble			
Silver (Ag)	<0.0005	mg/l	0.0005
NW065 Sodium - Acid Soluble			
Sodium (Na)	10.7	mg/l	0.05
NW011 Sulphate			
Sulphate	10.5	mg/l	0.02
NW003 Total Alkalinity			
Alkalinity total	17	mg CaCO ₃ /l	1
NW208 Total Dissolved Solids			
Total dissolved Solids	63	mg/l	10
NW212 Turbidity			
Turbidity	0.32	NTU	0.01
NW097 Uranium - Acid Soluble			
Uranium (U)	<0.0002	mg/l	0.0002
NW229 VOC (GC-MS)			
1,1,1,2-Tetrachloroethane	<0.0005	mg/l	0.0005
1,1,1-Trichloroethane	<0.0005	mg/l	0.0005
1,1,2,2-tetrachloroethane	<0.0005	mg/l	0.0005
1,1,2-Trichloroethane	<0.0005	mg/l	0.0005
1,1-Dichloroethane	<0.0005	mg/l	0.0005
1,1-Dichloroethene	<0.0005	mg/l	0.0005
1,1-Dichloropropene	<0.0005	mg/l	0.0005
1,2,3-Trichlorobenzene	<0.0005	mg/l	0.0005
1,2,3-Trichloropropane	<0.0005	mg/l	0.0005
1,2,4 trimethylbenzen	<0.0005	mg/l	0.0005
1,2,4-Trichlorobenzene	<0.0005	mg/l	0.0005
1,2-Dibromo-3-chloropropane	<0.001	mg/l	0.002
1,2-Dibromoethane	<0.0002	mg/l	0.0002
1,2-Dichlorobenzene (2)	<0.0005	mg/l	0.0005
1,2-Dichloroethane	<0.0005	mg/l	0.0005
1,2-Dichloropropane	<0.0005	mg/l	0.0005
1,3,5-Trichlorobenzene	<0.0005	mg/l	0.0005
1,3,5-Trimethylbenzene	<0.0005	mg/l	0.0005

Food & Water Testing

	RESULTS	LOQ
NW229 VOC (GC-MS)		
1,3-Dichlorobenzene	<0.0005 mg/l	0.0005
1,3-Dichloropropane	<0.0005 mg/l	0.0005
1,4-dichlorobenzene	<0.0005 mg/l	0.0005
2,2-Dichloropropane	<0.0005 mg/l	0.0005
2-Chlorotoluene	<0.0005 mg/l	0.0005
3-chloropropene	NotRecovered mg/l	0.0005
4-Chlorotoluene	<0.0005 mg/l	0.0005
4-methyl-2-pentanone	NotRecovered mg/l	0.0005
Benzene	<0.0005 mg/l	0.0005
Bromobenzene	<0.0010 mg/l	0.0005
Bromochloromethane	<0.0012 mg/l	0.0012
Bromodichloromethane	0.0021 mg/l	0.0005
Bromoform	0.0018 mg/l	0.0005
Bromomethane (zone 2)	<0.001 mg/l	0.001
Carbon tetrachloride	<0.0005 mg/l	0.0005
Carbondisulphide (CS ₂)	<0.0005 mg/l	0.0005
Chlorobenzene	<0.0005 mg/l	0.0005
Chloroethane	<0.001 mg/l	0.001
Chloroform	0.0011 mg/l	0.0005
Chloromethane	<0.006 mg/l	0.006
cis-1,2-Dichloroethene	<0.0005 mg/l	0.0005
cis-1,3-Dichloropropene	<0.0005 mg/l	0.0005
Dibromochloromethane	0.0034 mg/l	0.0005
Dibromomethane	<0.0005 mg/l	0.0005
Dichlorodifluoromethane	NotRecovered mg/l	0.001
Dichloromethane	NotRecovered mg/l	0.005
Hexachlorobutadiene	<0.0002 mg/l	0.0002
Isopropylbenzene (Cumene)	<0.0005 mg/l	0.0005
m,p-Xylene, Ethylbenzene	<0.0015 mg/l	0.0015
Naphthalene	<0.0005 mg/l	0.0005
n-Butylbenzene	<0.0005 mg/l	0.0005
n-Propylbenzene	<0.0005 mg/l	0.0005
p-Isopropyltoluene	<0.0005 mg/l	0.0005
sec-Butylbenzene	<0.0005 mg/l	0.0005
Styrene	<0.0005 mg/l	0.0005
tert-Butylbenzene	<0.0005 mg/l	0.0005
Tetrachloroethene	<0.0005 mg/l	0.0005
Toluene	<0.0005 mg/l	0.0005
trans-1,2-Dichloroethene	<0.0005 mg/l	0.0005
trans-1,3-Dichloropropene	<0.0005 mg/l	0.0005
Trichloroethene	<0.0005 mg/l	0.0005
Trichlorofluoromethane	<0.0005 mg/l	0.0005
Vinyl chloride	<0.0005 mg/l	0.0005
Xylene (ortho-)	<0.0005 mg/l	0.0005
NW096 Zinc - Acid Soluble		
Zinc (Zn)	0.005 mg/l	0.002

Food & Water Testing

SAMPLE CODE 812-2022-00081074

Client Reference: PR

Sampling Point NW0002254033:Region 3 - Paraparaumu Reticulation

Reception Date & Time: 11/08/2022 14:15

Analysis Start Date & Time: 11/08/2022 16:21

Sampled Date & Time 11/08/2022 12:56

Analysis Ending Date: 27/08/2022

Sampler(s) Marcus - Tama

	RESULTS	LOQ
NW068 Aluminium - Acid Soluble		
Aluminium	0.015 mg/l	0.002
NW179 Ammonia Nitrogen		
Ammoniacal nitrogen (N)	0.01 mg/l	0.01
NW069 Antimony - Acid Soluble		
Antimony (Sb)	<0.001 mg/l	0.001
NW070 Arsenic - Acid Soluble		
Arsenic (As)	<0.001 mg/l	0.001
NW484 Barium - Acid Soluble		
Barium (Ba)	0.004 mg/l	0.002
NW485 Beryllium - Acid Soluble		
Beryllium (Be)	<0.0005 mg/l	0.0005
NW072 Boron - Acid Soluble		
Boron (B)	<0.03 mg/l	0.03
NW865 Bromate Ultra trace		
Bromate	<0.005 mg/l	0.005
NW073 Cadmium - Acid Soluble		
Cadmium (Cd)	<0.0002 mg/l	0.0002
NW051 Calcium - Acid Soluble		
Calcium (Ca)	9.03 mg/l	0.05
NW012 Chlorate		
Chlorate	<0.005 mg/l	0.005
NW007 Chloride		
Chloride (Cl)	17.3 mg/l	0.02
NW013 Chlorite		
Chlorite	<0.005 mg/l	0.005
NW04S Chlorophenol		
2-Chlorophenol	<0.01 mg/l	5e-005
NW076 Chromium - Acid Soluble		
Chromium (Cr)	<0.001 mg/l	0.001
NW022 Colour at 455nm		
Colour	0.6 Colour unit	0.1
NW078 Copper - Acid Soluble		
Copper (Cu)	0.0010 mg/l	0.0005
NW679 Cyanide		
Cyanide	<0.005 mg/l	0.005
NW006 Fluoride		

Food & Water Testing

	RESULTS	LOQ
NW006 Fluoride		
Fluoride	0.37 mg/l	0.02
NW01X HAA MAV Sum Ratio		
Sum of haloacetic acids	<0.3	0.3
NW01W Haloacetic Acid		
Bromochloroacetic acid	<0.005 mg/l	0.005
Chloroacetic acid	<0.005 mg/l	0.005
Dibromoacetic acid	<0.005 mg/l	0.005
Dichloroacetic acid	<0.005 mg/l	0.005
Monobromoacetic acid	<0.005 mg/l	0.005
Trichloroacetic acid	<0.05 mg/l	0.05
⑤NW0AI Halogenated Volatile Disinfection By-Products		
See document attached as annex to the report	See report attached	-
NW029 Hardness		
Hardness	29 mg CaCO ₃ /l	1
NW351 Hydrogen Sulphide		
Sulphide	<0.05 mg/l	0.05
NW055 Iron - Acid Soluble		
Iron (Fe)	0.061 mg/l	0.005
NW080 Lead - Acid Soluble		
Lead (Pb)	<0.0005 mg/l	0.0005
NW081 Lithium - Acid Soluble		
Lithium (Li)	0.0010 mg/l	0.0005
NW058 Magnesium - Acid Soluble		
Magnesium (Mg)	1.65 mg/l	0.01
NW083 Manganese - Acid Soluble		
Manganese (Mn)	0.0021 mg/l	0.0005
NW084 Mercury - Acid Soluble		
Mercury (Hg)	<0.0005 mg/l	0.0005
NW085 Molybdenum - Acid Soluble		
Molybdenum (Mo)	<0.0005 mg/l	0.0005
NW086 Nickel - Acid Soluble		
Nickel (Ni)	<0.0005 mg/l	0.0005
NW010 Nitrate-N		
Nitrate-N	0.33 mg/l	0.01
NW008 Nitrite-N		
Nitrite	<0.01 mg/l	0.01
NW195 pH		
pH	7.3	0.1
NW089 Selenium - Acid Soluble		
Selenium (Se)	<0.002 mg/l	0.002
NW090 Silver - Acid Soluble		
Silver (Ag)	<0.0005 mg/l	0.0005

Food & Water Testing

	RESULTS		LOQ
NW065 Sodium - Acid Soluble			
Sodium (Na)	10.8	mg/l	0.05
NW011 Sulphate			
Sulphate	13.8	mg/l	0.02
NW003 Total Alkalinity			
Alkalinity total	15	mg CaCO ₃ /l	1
NW208 Total Dissolved Solids			
Total dissolved Solids	63	mg/l	10
NW212 Turbidity			
Turbidity	0.45	NTU	0.01
NW097 Uranium - Acid Soluble			
Uranium (U)	<0.0002	mg/l	0.0002
NW229 VOC (GC-MS)			
1,1,1,2-Tetrachloroethane	<0.0005	mg/l	0.0005
1,1,1-Trichloroethane	<0.0005	mg/l	0.0005
1,1,2,2-tetrachloroethane	<0.0005	mg/l	0.0005
1,1,2-Trichloroethane	<0.0005	mg/l	0.0005
1,1-Dichloroethane	<0.0005	mg/l	0.0005
1,1-Dichloroethene	<0.0005	mg/l	0.0005
1,1-Dichloropropene	<0.0005	mg/l	0.0005
1,2,3-Trichlorobenzene	<0.0005	mg/l	0.0005
1,2,3-Trichloropropane	<0.0005	mg/l	0.0005
1,2,4 trimethylbenzen	<0.0005	mg/l	0.0005
1,2,4-Trichlorobenzene	<0.0005	mg/l	0.0005
1,2-Dibromo-3-chloropropane	<0.001	mg/l	0.002
1,2-Dibromoethane	<0.0002	mg/l	0.0002
1,2-Dichlorobenzene (2)	<0.0005	mg/l	0.0005
1,2-Dichloroethane	<0.0005	mg/l	0.0005
1,2-Dichloropropane	<0.0005	mg/l	0.0005
1,3,5-Trichlorobenzene	<0.0005	mg/l	0.0005
1,3,5-Trimethylbenzene	<0.0005	mg/l	0.0005
1,3-Dichlorobenzene	<0.0005	mg/l	0.0005
1,3-Dichloropropane	<0.0005	mg/l	0.0005
1,4-dichlorobenzene	<0.0005	mg/l	0.0005
2,2-Dichloropropane	<0.0005	mg/l	0.0005
2-Chlorotoluene	<0.0005	mg/l	0.0005
3-chloropropene	NotRecovered	mg/l	0.0005
4-Chlorotoluene	<0.0005	mg/l	0.0005
4-methyl-2-pentanone	NotRecovered	mg/l	0.0005
Benzene	<0.0005	mg/l	0.0005
Bromobenzene	<0.0010	mg/l	0.0005
Bromochloromethane	<0.0012	mg/l	0.0012
Bromodichloromethane	0.0024	mg/l	0.0005
Bromoform	0.0019	mg/l	0.0005
Bromomethane (zone 2)	<0.001	mg/l	0.001
Carbon tetrachloride	<0.0005	mg/l	0.0005
Carbondisulphide (CS ₂)	<0.0005	mg/l	0.0005

Food & Water Testing

	RESULTS	LOQ
NW229 VOC (GC-MS)		
Chlorobenzene	<0.0005 mg/l	0.0005
Chloroethane	<0.001 mg/l	0.001
Chloroform	0.0013 mg/l	0.0005
Chloromethane	<0.006 mg/l	0.006
cis-1,2-Dichloroethene	<0.0005 mg/l	0.0005
cis-1,3-Dichloropropene	<0.0005 mg/l	0.0005
Dibromochloromethane	0.0038 mg/l	0.0005
Dibromomethane	<0.0005 mg/l	0.0005
Dichlorodifluoromethane	NotRecovered mg/l	0.001
Dichloromethane	NotRecovered mg/l	0.005
Hexachlorobutadiene	<0.0002 mg/l	0.0002
Isopropylbenzene (Cumene)	<0.0005 mg/l	0.0005
m,p-Xylene, Ethylbenzene	<0.0015 mg/l	0.0015
Naphthalene	<0.0005 mg/l	0.0005
n-Butylbenzene	<0.0005 mg/l	0.0005
n-Propylbenzene	<0.0005 mg/l	0.0005
p-Isopropyltoluene	<0.0005 mg/l	0.0005
sec-Butylbenzene	<0.0005 mg/l	0.0005
Styrene	<0.0005 mg/l	0.0005
tert-Butylbenzene	<0.0005 mg/l	0.0005
Tetrachloroethene	<0.0005 mg/l	0.0005
Toluene	<0.0005 mg/l	0.0005
trans-1,2-Dichloroethene	<0.0005 mg/l	0.0005
trans-1,3-Dichloropropene	<0.0005 mg/l	0.0005
Trichloroethene	<0.0005 mg/l	0.0005
Trichlorofluoromethane	<0.0005 mg/l	0.0005
Vinyl chloride	<0.0005 mg/l	0.0005
Xylene (ortho-)	<0.0005 mg/l	0.0005
NW096 Zinc - Acid Soluble		
Zinc (Zn)	0.006 mg/l	0.002

LIST OF METHODS

NW003 Total Alkalinity: APHA Online Edition 2320 B	NW006 Fluoride: APHA Online Edition 4110 B
NW007 Chloride: APHA Online Edition 4110 B	NW008 Nitrite-N: APHA Online Edition 4110 B
NW010 Nitrate-N: APHA Online Edition 4110 B	NW011 Sulphate: APHA Online Edition 4110 B
NW012 Chlorate: APHA Online Edition 4110 D	NW013 Chlorite: APHA Online Edition 4110 D
NW01W Haloacetic Acid: Internal Method based on USEPA, LC-MS/MS	NW01X HAA MAV Sum Ratio: Internal Method based on USEPA, Calculation
NW022 Colour at 455nm: Internal Method, Spectrophotometry (UV/VIS) [calculated]	NW029 Hardness: APHA Online Edition 2340 B
NW04S Chlorophenol: Internal Method, LC-MS/MS	NW051 Calcium - Acid Soluble: APHA Online Edition 3120 B mod.
NW055 Iron - Acid Soluble: APHA Online Edition 3120 B mod.	NW058 Magnesium - Acid Soluble: APHA Online Edition 3120 B mod.
NW065 Sodium - Acid Soluble: APHA Online Edition 3120 B mod.	NW068 Aluminium - Acid Soluble: APHA Online Edition 3125 B mod.
NW069 Antimony - Acid Soluble: APHA Online Edition 3125 B mod.	NW070 Arsenic - Acid Soluble: APHA Online Edition 3125 B mod.
	NW072 Boron - Acid Soluble: APHA Online Edition 3125 B mod.

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NW073	Cadmium - Acid Soluble: APHA Online Edition 3125 B mod.	NW076	Chromium - Acid Soluble: APHA Online Edition 3125 B mod.
NW078	Copper - Acid Soluble: APHA Online Edition 3125 B mod.	NW080	Lead - Acid Soluble: APHA Online Edition 3125 B mod.
NW081	Lithium - Acid Soluble: APHA Online Edition 3125 B mod.	NW083	Manganese - Acid Soluble: APHA Online Edition 3125 B mod.
NW084	Mercury - Acid Soluble: APHA Online Edition 3125 B mod.	NW085	Molybdenum - Acid Soluble: APHA Online Edition 3125 B mod.
NW086	Nickel - Acid Soluble: APHA Online Edition 3125 B mod.	NW089	Selenium - Acid Soluble: APHA Online Edition 3125 B mod.
NW090	Silver - Acid Soluble: APHA Online Edition 3125 B mod.	NW096	Zinc - Acid Soluble: APHA Online Edition 3125 B mod.
NW097	Uranium - Acid Soluble: APHA Online Edition 3125 B mod.	NW0A1	Halogenated Volatile Disinfection By-Products: Method of the subcontractor (subcontract)
NW179	Ammonia Nitrogen: APHA Online Edition 4500-NH3 H	NW195	pH: APHA Online Edition 4500-H B
NW208	Total Dissolved Solids: APHA Online Edition 2540 C	NW212	Turbidity: APHA Online Edition 2130 B
NW229	VOC (GC-MS): Internal Method, HS-GC-MS	NW351	Hydrogen Sulphide: calculated
NW484	Barium - Acid Soluble: APHA Online Edition 3125 B mod.	NW485	Beryllium - Acid Soluble: APHA Online Edition 3125 B mod.
NW679	Cyanide: APHA Online Edition 4500-CN C & E	NW865	Bromate Ultra trace: APHA Online Edition 4110 D

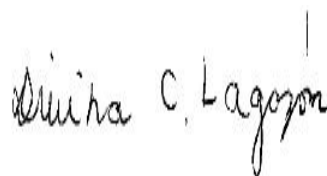
Signature



Jennifer Mont Supervisor



Amitesh Kumar Supervisor



Divina Cunanan Lagazon Supervisor



Gordon McArthur Senior laboratory Analyst



Ganesh Ilancko Supervisor



Marylou Cabral Laboratory Manager

EXPLANATORY NOTE

- ① Test is not accredited
- ② Test is subcontracted within Eurofins group and is accredited
- ③ Test is subcontracted within Eurofins group and is not accredited
- ④ Test is subcontracted outside Eurofins group and is accredited
- ⑤ Test is subcontracted outside Eurofins group and is not accredited
- ⑥ Test result is provided by the customer and is not accredited
- ⑦ Tested at the sampling point by Eurofins and is not accredited
- ⑧ Tested at the sampling point by Eurofins and is accredited

N/A means Not applicable

Not Detected means not detected at or above the Limit of Quantification (LOQ)

LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit

Food & Water Testing

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END OF REPORT

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-23-NW-009945-01** REPORT DATE **07/03/2023**

Attention Kapiti Coast District Council
Kim Mazur
175 Rimu Road
5032 Paraparaumu
NEW ZEALAND

Phone +64275554729

Email Kim.Mazur@kapiticoast.govt.nz

Copy to: [REDACTED]

Contact for your orders: Wil Verar
Contract: Kapiti DC Water Treatment Plant
Submission Reference: Waikanae Annual Samples

Order code: EUNZWE-00106464

Purchase Order Number: 368443

SAMPLE CODE **812-2023-00013703**

Client Reference: WR

Sampling Point code: NW0002254032

Sampling Point name: Region 3 - Waikanae Reticulation

Reception Date & Time: 16/02/2023 15:40

Analysis Start Date & Time: 16/02/2023 16:25

Analysis Ending Date: 07/03/2023

Sampled Date & Time 16/02/2023 12:29

Sampler(s) Customer

RESULTS

LOQ

NW355 Absorbance at 270 nm

Absorbance	<0.01		0.01
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NW068 Aluminium - Acid Soluble

Aluminium	0.038	mg/l	0.002
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NW179 Ammonia Nitrogen

Ammoniacal nitrogen (N)	<0.01	mg/l	0.01
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NW069 Antimony - Acid Soluble

Antimony (Sb)	<0.001	mg/l	0.001
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NW070 Arsenic - Acid Soluble

Arsenic (As)	<0.001	mg/l	0.001
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NW484 Barium - Acid Soluble

Barium (Ba)	0.006	mg/l	0.002
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NW485 Beryllium - Acid Soluble

Beryllium (Be)	<0.0005	mg/l	0.0005
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NW072 Boron - Acid Soluble

Boron (B)	<0.03	mg/l	0.03
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NW865 Bromate Ultra trace

Bromate	<0.005	mg/l	0.005
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NW073 Cadmium - Acid Soluble

Cadmium (Cd)	<0.0002	mg/l	0.0002
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NW051 Calcium - Acid Soluble

Calcium (Ca)	9.14	mg/l	0.05
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NW012 Chlorate

Chlorate	<0.005	mg/l	0.005
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NW007 Chloride

Chloride (Cl)	17.0	mg/l	0.02
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Food & Water Testing

RESULTS			LOQ
NW013 Chlorite			
Chlorite	<0.005	mg/l	0.005
NW04S Chlorophenol			
2-Chlorophenol	<0.01	mg/l	5e-005
NW076 Chromium - Acid Soluble			
Chromium (Cr)	<0.001	mg/l	0.001
NW022 Colour at 455nm			
Colour	0.2	Colour unit	0.1
NW078 Copper - Acid Soluble			
Copper (Cu)	0.0006	mg/l	0.0005
NW679 Cyanide			
Cyanide	<0.005	mg/l	0.005
NW006 Fluoride			
Fluoride	0.86	mg/l	0.02
NW01X HAA MAV Sum Ratio			
Sum of haloacetic acids	<0.3		0.3
NW01W Haloacetic Acid			
Bromochloroacetic acid	<0.005	mg/l	0.005
Chloroacetic acid	<0.005	mg/l	0.005
Dibromoacetic acid	<0.005	mg/l	0.005
Dichloroacetic acid	<0.005	mg/l	0.005
Monobromoacetic acid	<0.005	mg/l	0.005
Trichloroacetic acid	<0.05	mg/l	0.05
④NW0AI Halogenated Volatile Disinfection By-Products			
See document attached as annex See attached to the report			-
①NW351 Hydrogen Sulphide			
Sulphide	<0.05	mg/l	0.05
NW055 Iron - Acid Soluble			
Iron (Fe)	0.018	mg/l	0.005
NW080 Lead - Acid Soluble			
Lead (Pb)	0.0006	mg/l	0.0005
NW081 Lithium - Acid Soluble			
Lithium (Li)	0.0014	mg/l	0.0005
NW058 Magnesium - Acid Soluble			
Magnesium (Mg)	1.67	mg/l	0.01
NW083 Manganese - Acid Soluble			
Manganese (Mn)	0.0005	mg/l	0.0005
NW084 Mercury - Acid Soluble			
Mercury (Hg)	<0.0005	mg/l	0.0005
NW085 Molybdenum - Acid Soluble			
Molybdenum (Mo)	<0.0005	mg/l	0.0005
NW086 Nickel - Acid Soluble			
Nickel (Ni)	<0.0005	mg/l	0.0005
NW010 Nitrate-N			

Food & Water Testing

RESULTS		LOQ	
NW010 Nitrate-N			
Nitrate-N	0.14	mg/l	0.01
NW008 Nitrite-N			
Nitrite	<0.01	mg/l	0.01
NW195 pH			
pH	7.4		0.1
NW089 Selenium - Acid Soluble			
Selenium (Se)	<0.002	mg/l	0.002
NW090 Silver - Acid Soluble			
Silver (Ag)	<0.0005	mg/l	0.0005
NW065 Sodium - Acid Soluble			
Sodium (Na)	11.6	mg/l	0.05
NW011 Sulphate			
Sulphate	11.3	mg/l	0.02
NW199 Sulphide			
Sulphide	<0.2	mg/l	0.2
NW003 Total Alkalinity			
Alkalinity total	24	mg CaCO ₃ /l	1
①NW339 Total Dissolved Solids			
Total dissolved Solids	62	mg/l	1
NW029 Total Hardness			
Hardness	29	mg CaCO ₃ /l	1
NW212 Turbidity			
Turbidity	0.13	NTU	0.01
NW097 Uranium - Acid Soluble			
Uranium (U)	<0.0002	mg/l	0.0002
NW229 VOC (GC-MS)			
1,1,1,2-Tetrachloroethane	<0.0005	mg/l	0.0005
1,1,1-Trichloroethane	<0.0005	mg/l	0.0005
1,1,2,2-tetrachloroethane	<0.0005	mg/l	0.0005
1,1,2-Trichloroethane	<0.0005	mg/l	0.0005
1,1-Dichloroethane	<0.0005	mg/l	0.0005
1,1-Dichloroethene	<0.0005	mg/l	0.0005
1,1-Dichloropropene	<0.0005	mg/l	0.0005
1,2,3-Trichlorobenzene	<0.0005	mg/l	0.0005
1,2,3-Trichloropropane	<0.0005	mg/l	0.0005
1,2,4 trimethylbenzen	<0.0005	mg/l	0.0005
1,2,4-Trichlorobenzene	<0.0005	mg/l	0.0005
1,2-Dibromo-3-chloropropane	<0.001	mg/l	0.002
1,2-Dibromoethane	<0.0002	mg/l	0.0002
1,2-Dichlorobenzene (2)	<0.0005	mg/l	0.0005
1,2-Dichloroethane	<0.0005	mg/l	0.0005
1,2-Dichloropropane	<0.0005	mg/l	0.0005
1,3,5-Trichlorobenzene	<0.0005	mg/l	0.0005
1,3,5-Trimethylbenzene	<0.0005	mg/l	0.0005
1,3-Dichlorobenzene	<0.0005	mg/l	0.0005

Food & Water Testing

	RESULTS		LOQ
NW229 VOC (GC-MS)			
1,3-Dichloropropane	<0.0005	mg/l	0.0005
1,4-dichlorobenzene	<0.0005	mg/l	0.0005
2,2-Dichloropropane	<0.0005	mg/l	0.0005
2-Chlorotoluene	<0.0005	mg/l	0.0005
3-chloropropene	<0.0005	mg/l	0.0005
4-Chlorotoluene	<0.0005	mg/l	0.0005
4-methyl-2-pentanone	<0.0050	mg/l	0.0005
Benzene	<0.0005	mg/l	0.0005
Bromobenzene	<0.0005	mg/l	0.0005
Bromochloromethane	<0.0012	mg/l	0.0012
Bromodichloromethane	0.0049	mg/l	0.0005
Bromoform	0.0021	mg/l	0.0005
Bromomethane (zone 2)	<0.001	mg/l	0.001
Carbon tetrachloride	<0.0005	mg/l	0.0005
Carbondisulphide (CS2)	<0.0005	mg/l	0.0005
Chlorobenzene	<0.0005	mg/l	0.0005
Chloroethane	<0.001	mg/l	0.001
Chloroform	0.0028	mg/l	0.0005
Chloromethane	<0.006	mg/l	0.006
cis-1,2-Dichloroethene	<0.0005	mg/l	0.0005
cis-1,3-Dichloropropene	<0.0005	mg/l	0.0005
Dibromochloromethane	0.0067	mg/l	0.0005
Dibromomethane	<0.0005	mg/l	0.0005
Dichlorodifluoromethane	NotRecovered	mg/l	0.001
Dichloromethane	<0.005	mg/l	0.005
Hexachlorobutadiene	<0.0002	mg/l	0.0002
Isopropylbenzene (Cumene)	<0.0005	mg/l	0.0005
m,p-Xylene, Ethylbenzene	<0.0015	mg/l	0.0015
Naphthalene	<0.0005	mg/l	0.0005
n-Butylbenzene	<0.0005	mg/l	0.0005
n-Propylbenzene	<0.0005	mg/l	0.0005
p-Isopropyltoluene	<0.0005	mg/l	0.0005
sec-Butylbenzene	<0.0010	mg/l	0.0005
Styrene	<0.0005	mg/l	0.0005
tert-Butylbenzene	<0.0005	mg/l	0.0005
Tetrachloroethene	<0.0005	mg/l	0.0005
Toluene	<0.0005	mg/l	0.0005
trans-1,2-Dichloroethene	<0.0005	mg/l	0.0005
trans-1,3-Dichloropropene	<0.0005	mg/l	0.0005
Trichloroethene	<0.0005	mg/l	0.0005
Trichlorofluoromethane	<0.0005	mg/l	0.0005
Vinyl chloride	<0.0005	mg/l	0.0003
Xylene (ortho-)	<0.0005	mg/l	0.0005
NW096 Zinc - Acid Soluble			
Zinc (Zn)	0.005	mg/l	0.002

LIST OF METHODS

Food & Water Testing

NW003	Total Alkalinity: APHA Online Edition 2320 B	NW006	Fluoride: APHA Online Edition 4110 B
NW007	Chloride: APHA Online Edition 4110 B	NW008	Nitrite-N: APHA Online Edition 4110 B
NW010	Nitrate-N: APHA Online Edition 4110 B	NW011	Sulphate: APHA Online Edition 4110 B
NW012	Chlorate: APHA Online Edition 4110 D	NW013	Chlorite: APHA Online Edition 4110 D
NW01W	Haloacetic Acid: Internal Method based on USEPA, LC-MS/MS	NW01X	HAA MAV Sum Ratio: Internal Method based on USEPA, Calculation
NW022	Colour at 455nm: Internal Method, Spectrophotometry (UV/VIS) [calculated]	NW029	Total Hardness: APHA Online Edition 2340 B
NW04S	Chlorophenol: Internal Method, LC-MS/MS	NW051	Calcium - Acid Soluble: APHA Online Edition 3120 B mod.
NW055	Iron - Acid Soluble: APHA Online Edition 3120 B mod.	NW058	Magnesium - Acid Soluble: APHA Online Edition 3120 B mod.
NW065	Sodium - Acid Soluble: APHA Online Edition 3120 B mod.	NW068	Aluminium - Acid Soluble: APHA Online Edition 3125 B mod.
NW069	Antimony - Acid Soluble: APHA Online Edition 3125 B mod.	NW070	Arsenic - Acid Soluble: APHA Online Edition 3125 B mod.
NW072	Boron - Acid Soluble: APHA Online Edition 3125 B mod.	NW073	Cadmium - Acid Soluble: APHA Online Edition 3125 B mod.
NW076	Chromium - Acid Soluble: APHA Online Edition 3125 B mod.	NW078	Copper - Acid Soluble: APHA Online Edition 3125 B mod.
NW080	Lead - Acid Soluble: APHA Online Edition 3125 B mod.	NW081	Lithium - Acid Soluble: APHA Online Edition 3125 B mod.
NW083	Manganese - Acid Soluble: APHA Online Edition 3125 B mod.	NW084	Mercury - Acid Soluble: APHA Online Edition 3125 B mod.
NW085	Molybdenum - Acid Soluble: APHA Online Edition 3125 B mod.	NW086	Nickel - Acid Soluble: APHA Online Edition 3125 B mod.
NW089	Selenium - Acid Soluble: APHA Online Edition 3125 B mod.	NW090	Silver - Acid Soluble: APHA Online Edition 3125 B mod.
NW096	Zinc - Acid Soluble: APHA Online Edition 3125 B mod.	NW097	Uranium - Acid Soluble: APHA Online Edition 3125 B mod.
NW0AI	Halogenated Volatile Disinfection By-Products: Method of the subcontractor (subcontract)	NW179	Ammonia Nitrogen: APHA Online Edition 4500-NH3 H
NW195	pH: APHA Online Edition 4500-H B	NW199	Sulphide: APHA Online Edition 4500-S ²⁻ B, C, F
NW212	Turbidity: APHA Online Edition 2130 B	NW229	VOC (GC-MS): Internal Method, HS-GC-MS
NW339	Total Dissolved Solids: Internal Method, Gravimetry	NW351	Hydrogen Sulphide: calculated
NW355	Absorbance at 270 nm: Internal Method, Spectrophotometry (UV/VIS)	NW484	Barium - Acid Soluble: APHA Online Edition 3125 B mod.
NW485	Beryllium - Acid Soluble: APHA Online Edition 3125 B mod.	NW679	Cyanide: APHA Online Edition 4500-CN C & E
NW865	Bromate Ultra trace: APHA Online Edition 4110 D		

Signature



Marylou Cabral Laboratory Manager



Jennifer Mont Supervisor



Amitesh Kumar Supervisor



Gordon McArthur Senior laboratory Analyst



Ganesh Ilancko Supervisor



Ivan Imamura Laboratory Analyst

EXPLANATORY NOTE

Food & Water Testing

- ① Test is not accredited
- ② Test is subcontracted within Eurofins group and is accredited
- ③ Test is subcontracted within Eurofins group and is not accredited
- ④ Test is subcontracted outside Eurofins group and is accredited
- ⑤ Test is subcontracted outside Eurofins group and is not accredited
- ⑥ Test result is provided by the customer and is not accredited
- ⑦ Tested at the sampling point by Eurofins and is not accredited
- ⑧ Tested at the sampling point by Eurofins and is accredited

N/A means Not applicable

Not Detected means not detected at or above the Limit of Quantification (LOQ)

LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit

The test result(s) in this report apply only to the sample as received.

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The tests are identified by a five-digit code, their description is available on request.

Accreditation does not apply to comments or graphical representations.

Unless otherwise stated, all tests in this analytical report (except for subcontracted tests) are performed at 85 Port Road, Seaview, Lower Hutt, Wellington, NEW ZEALAND.

The laboratory is not responsible for the information provided by the customer which can affect the validity of the results, for example: sampling information such as date/time, field data etc.

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END OF REPORT

Kapiti Coast District Council
Laboratory (KCDC)
24 Fytfield Place
Paraparaumu
5032
Attention: Kim Wearne

Analytical Report

Report Number: 21/15156

Issue: 03-1
17 May 2021

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
21/15156-03	Kapiti Coast DC - A more thorough investigation		05/05/2021 10:55	05/05/2021 13:47	347797
Notes: Waikanae Reticulation DW Log No: 211969					
Test	Result	Units	Comments	Test Date	Signatory
0001 pH	7.4			06/05/2021	Jennifer Mont KTP
0052 Alkalinity - Total	20	g CaCO ₃ /m ³		06/05/2021	Jennifer Mont KTP
0084 Turbidity	0.09	NTU		06/05/2021	Jennifer Mont KTP
0601 Fluoride	0.68	g/m ³		06/05/2021	Shanel Kumar KTP
0602 Chloride	18.7	g/m ³		06/05/2021	Shanel Kumar KTP
0603 Nitrite - Nitrogen	< 0.01	g/m ³		06/05/2021	Shanel Kumar KTP
0605 Nitrate - Nitrogen	0.11	g/m ³		06/05/2021	Shanel Kumar KTP
0607 Sulphate	5.65	g/m ³		06/05/2021	Shanel Kumar KTP
0677 Colour	0.6	TCU		06/05/2021	Marylou Cabral KTP
0680 Hydrogen Sulphide	< 0.05	g/m ³		07/05/2021	Gordon McArthur .
0708 Bromate	< 0.005	g/m ³		06/05/2021	Shanel Kumar KTP
0709 Chlorate	< 0.005	g/m ³		06/05/2021	Shanel Kumar KTP
0710 Chlorite	< 0.005	g/m ³		06/05/2021	Shanel Kumar KTP
0725 Cyanide	< 0.005	g/m ³		12/05/2021	Amit Kumar KTP
0760 Ammonia Nitrogen	< 0.01	g/m ³		08/05/2021	Divina Lagazon KTP
1024 Total Dissolved Solids	76	g/m ³		06/05/2021	Jennifer Mont KTP
1610 Calcium - Acid Soluble	8.05	g/m ³		06/05/2021	Shanel Kumar KTP
1619 Iron - Acid Soluble	0.007	g/m ³		06/05/2021	Shanel Kumar KTP
1622 Magnesium - Acid Soluble	1.98	g/m ³		06/05/2021	Shanel Kumar KTP
1634 Sodium - Acid Soluble	12.6	g/m ³		06/05/2021	Shanel Kumar KTP
1642 Total Hardness	28	g CaCO ₃ /m ³		06/05/2021	Shanel Kumar KTP
6001 Aluminium - Acid Soluble	0.026	g/m ³		07/05/2021	Shanel Kumar KTP
6002 Antimony - Acid Soluble	< 0.001	g/m ³		07/05/2021	Shanel Kumar KTP
6003 Arsenic - Acid Soluble	< 0.001	g/m ³		07/05/2021	Shanel Kumar KTP
6004 Barium - Acid Soluble	0.005	g/m ³		07/05/2021	Shanel Kumar KTP
6005 Beryllium - Acid Soluble	< 0.0005	g/m ³		07/05/2021	Shanel Kumar KTP
6007 Boron - Acid Soluble	< 0.03	g/m ³		07/05/2021	Shanel Kumar KTP
6008 Cadmium - Acid Soluble	< 0.0002	g/m ³		07/05/2021	Shanel Kumar KTP
6011 Chromium - Acid Soluble	< 0.001	g/m ³		07/05/2021	Shanel Kumar KTP
6013 Copper - Acid Soluble	0.0031	g/m ³		07/05/2021	Shanel Kumar KTP
6018 Lead - Acid Soluble	< 0.0005	g/m ³		07/05/2021	Shanel Kumar KTP
6019 Lithium - Acid Soluble	0.0012	g/m ³		07/05/2021	Shanel Kumar KTP
6021 Manganese - Acid Soluble	< 0.0005	g/m ³		07/05/2021	Shanel Kumar KTP
6022 Mercury - Acid Soluble	< 0.0005	g/m ³		07/05/2021	Shanel Kumar KTP
6023 Molybdenum - Acid Soluble	< 0.0005	g/m ³		07/05/2021	Shanel Kumar KTP
6024 Nickel - Acid Soluble	< 0.0005	g/m ³		07/05/2021	Shanel Kumar KTP
6028 Selenium - Acid Soluble	< 0.002	g/m ³		07/05/2021	Shanel Kumar KTP
6030 Silver - Acid Soluble	< 0.0005	g/m ³		07/05/2021	Shanel Kumar KTP
6038 Zinc - Acid Soluble	< 0.002	g/m ³		07/05/2021	Shanel Kumar KTP
6047 Uranium - Acid Soluble	< 0.0002	g/m ³		07/05/2021	Shanel Kumar KTP
P1859 Sample Filtration	Completed			05/05/2021	Harsimran Dhanoa .
SC024 NDBP - Halogenated Volatile Disinfection By-Products	Attached				Prashilla Singh
W-Phn07 2-Chlorophenol	<0.01	mg/L		07/05/2021	Joanna Yang KTP
Z9602 Compliance criteria used	See below			12/04/2021	
DWS-HAA Drinking Water - Haloacetic Acids					
DWS-157 Bromochloroacetic acid	< 0.005	mg/L	No limit listed in DWSNZ	06/05/2021	Joanna Yang KTP
DWS-235 Dibromoacetic acid	< 0.005	mg/L	No limit listed in DWSNZ	06/05/2021	Joanna Yang KTP
DWS-246 Dichloroacetic acid	< 0.005	mg/L	Complies with DWSNZ MAV	06/05/2021	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
21/15156-03	Kapiti Coast DC - A more thorough investigation		05/05/2021 10:55	05/05/2021 13:47	347797

Notes: Waikanae Reticulation DW Log No: 211969

Test	Result	Units	Comments	Test Date	Signatory
DWS-401 Monochloroacetic acid	< 0.005	mg/L	limit of 0.05 Complies with DWSNZ MAV	06/05/2021	Joanna Yang KTP
DWS-402 Monobromoacetic acid	< 0.005	mg/L	limit of 0.02 No limit listed in DWSNZ	06/05/2021	Joanna Yang KTP
DWS-511 Trichloroacetic acid	< 0.05	mg/L	Complies with DWSNZ MAV	06/05/2021	Joanna Yang KTP
DWS-586 Haloacetic Acid MAV Sum Ratio	< 0.30		limit of 0.2 Complies with DWSNZ MAV	13/05/2021	Joanna Yang KTP
VOC Volatile Organic Compounds					
VOC-001 1,2,4-Trimethylbenzene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-002 1,3,5-Trimethylbenzene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-003 Benzene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-005 Isopropylbenzene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-007 Naphthalene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-008 n-Butylbenzene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-009 n-Propylbenzene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-010 o-Xylene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-011 p-Isopropyltoluene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-013 sec-Butylbenzene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-014 Styrene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-015 tert-Butylbenzene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-016 Toluene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-017 Total p,m Xylene, Ethylbenzene	<0.0015	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-018 1,1,1,2-Tetrachloroethane	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-019 1,1,1-Trichloroethane	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-020 1,1,2,2-Tetrachloroethane	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-021 1,1,2-Trichloroethane	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-022 1,1-Dichloroethane	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-023 1,1-Dichloroethene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-024 1,1-Dichloropropene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-025 1,2,3-Trichloropropane	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-026 1,2-Dibromo-3-chloropropane	<0.001	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-027 1,2-Dibromoethane	<0.0002	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-028 1,2-Dichloroethane	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-029 1,2-Dichloropropane	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-030 1,3-Dichloropropane	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-031 2,2-Dichloropropane	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-032 Allyl chloride	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-033 Bromochloromethane	<0.0012	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-034 Bromomethane	< 0.002	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-035 Carbon tetrachloride	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-036 Chloroethane	< 0.005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-037 Chloromethane	<0.006	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-038 cis-1,2-Dichloroethene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-039 cis-1,3-Dichloropropene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-040 Dibromomethane	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-042 Dichloromethane	<0.005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-043 Hexachlorobutadiene	<0.0002	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-044 Tetrachloroethene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-045 trans-1,2-Dichloroethene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-046 trans-1,3-Dichloropropene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-047 Trichloroethene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-048 Trichlorofluoromethane	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-049 Vinyl Chloride	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-050 1,2,3-Trichlorobenzene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-051 1,2,4-Trichlorobenzene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-052 1,2-Dichlorobenzene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-053 1,3-Dichlorobenzene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-054 1,4-Dichlorobenzene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-055 2-Chlorotoluene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP



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Rolleston
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Rolleston 7675
Phone: (03) 343-5227

Dunedin
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South Dunedin 9012
Phone: (03) 972-7963

Page 2 of 4
Report Number: 21/15156-03-1 ELS

17 May 2021 15:53:58

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
21/15156-03	Kapiti Coast DC - A more thorough investigation		05/05/2021 10:55	05/05/2021 13:47	347797
Notes: Waikanae Reticulation DW Log No: 211969					
Test	Result	Units	Comments	Test Date	Signatory
VOC-056 4-Chlorotoluene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-057 Bromobenzene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-058 Chlorobenzene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-059 1,3,5-Trichlorobenzene	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-060 4-Methyl-2-Pentanone	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP
VOC-061 Carbon disulphide	<0.0005	mg/L		06/05/2021	Ganesh Ilancko KTP

Comments:

Sampled by customer using ELS approved containers.

All samples analysed as we receive them. Delivery was within the correct time and temperature conditions.

Test Methodology:

Test	Methodology	Detection Limit
pH	Dedicated pH meter following APHA Online Edition Method 4500-H B.	0.1
Alkalinity - Total	APHA Online Edition Method 2320 B	1 g CaCO ₃ /m ³
Turbidity	Turbidity Meter following APHA Online Edition Method 2130 B.	0.01 NTU
Fluoride	Ion Chromatography following APHA 4110B.	0.02 g/m ³
Chloride	Ion Chromatography following APHA 4110B.	0.02 g/m ³
Nitrite - Nitrogen	Ion Chromatography following APHA 4110B.	0.01 g/m ³
Nitrate - Nitrogen	Ion Chromatography following APHA 4110B.	0.01 g/m ³
Sulphate	Ion Chromatography following APHA 4110B.	0.02 g/m ³
Colour	Calculated from Absorbance @ 270nm.	0.1 TCU
Hydrogen Sulphide	APHA Online Edition Method 4500-S2 part H and is calculated from Sulphide, Temperature, Total Dissolved Solids, and pH results. If temperature has not been provided a default value of 15°C will be used.	0.05 g/m ³
Bromate	Ion Chromatography following APHA 4110D.	0.005 g/m ³
Chlorate	Ion Chromatography following APHA 4110D.	0.005 g/m ³
Chlorite	Ion Chromatography following APHA 4110D.	0.005 g/m ³
Cyanide	Discrete Analyser. APHA Online Edition Method 4500-CN- C & E.	0.005 g/m ³
Ammonia Nitrogen	Flow Injection Autoanalyser following APHA Online Edition Method 4500 NH ₃ -H.	0.01 g/m ³
Total Dissolved Solids	APHA Online Edition Method 2540 C, by Gravimetric Evaporation @ 180°C	10 g/m ³
Calcium - Acid Soluble	ICP-OES following APHA Online Edition Method 3120 B (modified).	0.05 g/m ³
Iron - Acid Soluble	ICP-OES following APHA Online Edition Method 3120 B (modified).	0.005 g/m ³
Magnesium - Acid Soluble	ICP-OES following APHA Online Edition Method 3120 B (modified).	0.01 g/m ³
Sodium - Acid Soluble	ICP-OES following APHA Online Edition Method 3120 B (modified).	0.05 g/m ³
Total Hardness	ICP-OES following APHA Online Edition Method 3120 B (modified).	1 g CaCO ₃ /m ³
Aluminium - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.002 g/m ³
Antimony - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.001 g/m ³
Arsenic - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.001 g/m ³
Barium - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.002 g/m ³
Beryllium - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m ³
Boron - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.03 g/m ³
Cadmium - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0002 g/m ³
Chromium - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.001 g/m ³
Copper - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m ³
Lead - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m ³
Lithium - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m ³
Manganese - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m ³
Mercury - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m ³
Molybdenum - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m ³
Nickel - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m ³
Selenium - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.002 g/m ³
Silver - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m ³
Zinc - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.002 g/m ³
Uranium - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0002 g/m ³
Bromochloroacetic acid	Haloacetic Acid compound analysed by in-house method using LC. This compound does not have a DWSNZ MAV	0.005 mg/L



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Test	Methodology	Detection Limit
	value.	
Dibromoacetic acid	Haloacetic Acid compound analysed by in-house method using LC. This compound does not have a DWSNZ MAV value.	0.005 mg/L
Dichloroacetic acid	Haloacetic Acid compound analysed by in-house method using LC. The DWSNZ MAV value = 0.05 mg/L.	0.005 mg/L
Monochloroacetic acid	Haloacetic Acid compound analysed by in-house method using LC. The DWSNZ MAV value = 0.02 mg/L.	0.005 mg/L
Monobromoacetic acid	Haloacetic Acid compound analysed by in-house method using LC. This compound does not have a DWSNZ MAV value.	0.005 mg/L
Trichloroacetic acid	Haloacetic Acid compound analysed by in-house method using LC. The DWSNZ MAV value = 0.2 mg/L.	0.05 mg/L
Haloacetic Acid MAV Sum Ratio	Calculated as the sum of the individual chloroacetic acids specified in DWSNZ (monochloroacetic acid, dichloroacetic acid and trichloroacetic acid) divided by their respective Maximum Allowable Values (MAVs).	0.3
Sample Filtration	Sample filtered through 0.45 micron filter following APHA Online Edition Method 3030B.	n/a
NDBP - Halogenated Volatile Disinfection By-Products	Subcontracted to Hill Laboratories	various
Volatile Organic Compounds	Volatile Organic Compound analysed by in-house method using GC-MS. Detection limit range is from 0.0001 mg/L to 0.006 mg/L.	
2-Chlorophenol	Phenol and Chlorinated Phenols analysed by in-house method using Liquid Chromatography coupled to Tandem Mass Spectrometry (LC-MS/MS)	0.01 mg/L
Compliance criteria used	Compliance is measured against the New Zealand Drinking Water Standards for New Zealand 2005 (Revised 2018).	n/a

Unless otherwise stated, all tests are performed in Wellington.

The laboratory is not responsible for the information provided by the customer which can affect the validity of the results, for example: sampling information such as date/time, field data etc.

"<" means that no analyte was found in the sample at the level of detection shown. Detection limits are based on a clean matrix and may vary according to individual sample.

For liquid samples g/m3 is the equivalent to mg/L and ppm, solid samples are reported as mg/kg which is equivalent to ppm.

Samples will be retained for a period of time, in suitable conditions appropriate to the analyses requested.

This laboratory is accredited by International Accreditation New Zealand and its reports are recognised in all countries affiliated to the International Laboratory Accreditation Co-operation Mutual Recognition Arrangement (ILAC-MRA). The tests reported have been performed in accordance with our terms of accreditation, with the exception of tests marked "not an accredited test", which are outside the scope of this laboratory's accreditation.

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