OIR: 2223/569

15 June 2023

[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.

eurofins | 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 **Order code:** EUNZWE-00050376
Contract: Kapiti DC Water Treatment Plant
Submission Reference: KCDC Region 3 testing **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 **Analysis Ending Date:** 23/08/2022
Sampled Date & Time 11/08/2022 11:22 **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

		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 CaCO3/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**			

		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 CaCO3/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 (CS2)	<0.0005	mg/l	0.0005

		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**		
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

		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
⑤**NW0AI**	**Halogenated Volatile Disinfection By-Products**			
	See document attached as annex to the report	See report attached		-
NW029	**Hardness**			
	Hardness	21	mg CaCO3/l	1

		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 CaCO3/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

		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 (CS2)	<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

		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	**Analysis Ending Date:**	27/08/2022
Sampled Date & Time	11/08/2022 11:15	**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**			

		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
⑤**NW0AI**	**Halogenated Volatile Disinfection By-Products**			
	See document attached as annex to the report	See report attached		-
NW029	**Hardness**			
	Hardness	27	mg CaCO3/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

		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 CaCO3/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

		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 (CS2)	<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

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
Analysis Ending Date:	27/08/2022
Sampled Date & Time	11/08/2022 12:56
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**			

		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
⑤ **NW0AI**	**Halogenated Volatile Disinfection By-Products**			
	See document attached as annex to the report	See report attached		-
NW029	**Hardness**			
	Hardness	29	mg CaCO3/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

		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 CaCO3/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 (CS2)	<0.0005	mg/l	0.0005

		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.

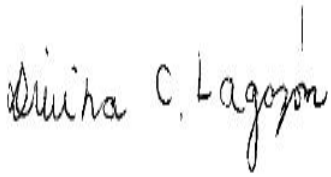
NW072 **Boron - Acid Soluble:** APHA Online Edition 3125 B mod.

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
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

END OF REPORT

eurofins | 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
Order code: EUNZWE-00106464
Contract: Kapiti DC Water Treatment Plant
Submission Reference: Waikanae Annual Samples
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
NW068	**Aluminium - Acid Soluble**			
	Aluminium	0.038	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)	0.006	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)	9.14	mg/l	0.05
NW012	**Chlorate**			
	Chlorate	<0.005	mg/l	0.005
NW007	**Chloride**			
	Chloride (Cl)	17.0	mg/l	0.02

		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
④**NW0AI**	**Halogenated Volatile Disinfection By-Products**			
	See document attached as annex to the report	See attached		-
①**NW351**	**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**			

		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 CaCO3/l	1
①**NW339**	**Total Dissolved Solids**			
	Total dissolved Solids	62	mg/l	1
NW029	**Total Hardness**			
	Hardness	29	mg CaCO3/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

		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

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

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Laboratory (KCDC)
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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 CaCO3/m³		06/05/2021	Jennifer Mont KTP
0084	Turbidity	0.09	NTU		06/05/2021	Jennifer Mont KTP
0601	Fluoride	0.68	g/m³		06/05/2021	Shanel Kumar KTP
0602	Chloride	18.7	g/m³		06/05/2021	Shanel Kumar KTP
0603	Nitrite - Nitrogen	< 0.01	g/m³		06/05/2021	Shanel Kumar KTP
0605	Nitrate - Nitrogen	0.11	g/m³		06/05/2021	Shanel Kumar KTP
0607	Sulphate	5.65	g/m³		06/05/2021	Shanel Kumar KTP
0677	Colour	0.6	TCU		06/05/2021	Marylou Cabral KTP
0680	Hydrogen Sulphide	< 0.05	g/m³		07/05/2021	Gordon McArthur .
0708	Bromate	< 0.005	g/m³		06/05/2021	Shanel Kumar KTP
0709	Chlorate	< 0.005	g/m³		06/05/2021	Shanel Kumar KTP
0710	Chlorite	< 0.005	g/m³		06/05/2021	Shanel Kumar KTP
0725	Cyanide	< 0.005	g/m³		12/05/2021	Amit Kumar KTP
0760	Ammonia Nitrogen	< 0.01	g/m³		08/05/2021	Divina Lagazon KTP
1024	Total Dissolved Solids	76	g/m³		06/05/2021	Jennifer Mont KTP
1610	Calcium - Acid Soluble	8.05	g/m³		06/05/2021	Shanel Kumar KTP
1619	Iron - Acid Soluble	0.007	g/m³		06/05/2021	Shanel Kumar KTP
1622	Magnesium - Acid Soluble	1.98	g/m³		06/05/2021	Shanel Kumar KTP
1634	Sodium - Acid Soluble	12.6	g/m³		06/05/2021	Shanel Kumar KTP
1642	Total Hardness	28	g CaCO3/m³		06/05/2021	Shanel Kumar KTP
6001	Aluminium - Acid Soluble	0.026	g/m³		07/05/2021	Shanel Kumar KTP
6002	Antimony - Acid Soluble	< 0.001	g/m³		07/05/2021	Shanel Kumar KTP
6003	Arsenic - Acid Soluble	< 0.001	g/m³		07/05/2021	Shanel Kumar KTP
6004	Barium - Acid Soluble	0.005	g/m³		07/05/2021	Shanel Kumar KTP
6005	Beryllium - Acid Soluble	< 0.0005	g/m³		07/05/2021	Shanel Kumar KTP
6007	Boron - Acid Soluble	< 0.03	g/m³		07/05/2021	Shanel Kumar KTP
6008	Cadmium - Acid Soluble	< 0.0002	g/m³		07/05/2021	Shanel Kumar KTP
6011	Chromium - Acid Soluble	< 0.001	g/m³		07/05/2021	Shanel Kumar KTP
6013	Copper - Acid Soluble	0.0031	g/m³		07/05/2021	Shanel Kumar KTP
6018	Lead - Acid Soluble	< 0.0005	g/m³		07/05/2021	Shanel Kumar KTP
6019	Lithium - Acid Soluble	0.0012	g/m³		07/05/2021	Shanel Kumar KTP
6021	Manganese - Acid Soluble	< 0.0005	g/m³		07/05/2021	Shanel Kumar KTP
6022	Mercury - Acid Soluble	< 0.0005	g/m³		07/05/2021	Shanel Kumar KTP
6023	Molybdenum - Acid Soluble	< 0.0005	g/m³		07/05/2021	Shanel Kumar KTP
6024	Nickel - Acid Soluble	< 0.0005	g/m³		07/05/2021	Shanel Kumar KTP
6028	Selenium - Acid Soluble	< 0.002	g/m³		07/05/2021	Shanel Kumar KTP
6030	Silver - Acid Soluble	< 0.0005	g/m³		07/05/2021	Shanel Kumar KTP
6038	Zinc - Acid Soluble	< 0.002	g/m³		07/05/2021	Shanel Kumar KTP
6047	Uranium - Acid Soluble	< 0.0002	g/m³		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
				limit of 0.05		
DWS-401	Monochloroacetic acid	< 0.005	mg/L	Complies with DWSNZ MAV limit of 0.02	06/05/2021	Joanna Yang KTP
DWS-402	Monobromoacetic acid	< 0.005	mg/L	No limit listed in DWSNZ	06/05/2021	Joanna Yang KTP
DWS-511	Trichloroacetic acid	< 0.05	mg/L	Complies with DWSNZ MAV limit of 0.2	06/05/2021	Joanna Yang KTP
DWS-586	Haloacetic Acid MAV Sum Ratio	< 0.30		Complies with DWSNZ MAV limit of 1	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-Butylbenezene	<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

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 CaCO3/m³
Turbidity	Turbidity Meter following APHA Online Edition Method 2130 B.	0.01 NTU
Fluoride	Ion Chromatography following APHA 4110B.	0.02 g/m³
Chloride	Ion Chromatography following APHA 4110B.	0.02 g/m³
Nitrite - Nitrogen	Ion Chromatography following APHA 4110B.	0.01 g/m³
Nitrate - Nitrogen	Ion Chromatography following APHA 4110B.	0.01 g/m³
Sulphate	Ion Chromatography following APHA 4110B.	0.02 g/m³
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/m³
Bromate	Ion Chromatography following APHA 4110D.	0.005 g/m³
Chlorate	Ion Chromatography following APHA 4110D.	0.005 g/m³
Chlorite	Ion Chromatography following APHA 4110D.	0.005 g/m³
Cyanide	Discrete Analyser. APHA Online Edition Method 4500-CN- C & E.	0.005 g/m³
Ammonia Nitrogen	Flow Injection Autoanalyser following APHA Online Edition Method 4500 NH3-H.	0.01 g/m³
Total Dissolved Solids	APHA Online Edition Method 2540 C, by Gravimetric Evaporation @ 180°C	10 g/m³
Calcium - Acid Soluble	ICP-OES following APHA Online Edition Method 3120 B (modified).	0.05 g/m³
Iron - Acid Soluble	ICP-OES following APHA Online Edition Method 3120 B (modified).	0.005 g/m³
Magnesium - Acid Soluble	ICP-OES following APHA Online Edition Method 3120 B (modified).	0.01 g/m³
Sodium - Acid Soluble	ICP-OES following APHA Online Edition Method 3120 B (modified).	0.05 g/m³
Total Hardness	ICP-OES following APHA Online Edition Method 3120 B (modified).	1 g CaCO3/m³
Aluminium - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.002 g/m³
Antimony - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.001 g/m³
Arsenic - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.001 g/m³
Barium - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified)	0.002 g/m³
Beryllium - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified)	0.0005 g/m³
Boron - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.03 g/m³
Cadmium - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0002 g/m³
Chromium - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.001 g/m³
Copper - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m³
Lead - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m³
Lithium - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified)	0.0005 g/m³
Manganese - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m³
Mercury - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m³
Molybdenum - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified)	0.0005 g/m³
Nickel - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m³
Selenium - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.002 g/m³
Silver - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified)	0.0005 g/m³
Zinc - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified).	0.002 g/m³
Uranium - Acid Soluble	ICP-MS following APHA Online Edition method 3125 (modified)	0.0002 g/m³
Bromochloroacetic acid	Haloacetic Acid compound analysed by in-house method using LC. This compound does not have a DWSNZ MAV	0.005 mg/L

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.

Report Released By
Rob Deacon

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.