



Certificate of Analysis

Client: New Zealand Artesian Water Limited
Contact: [REDACTED]
C/- New Zealand Artesian Water Limited
PO Box 3333
Richmond 7050

Sample Type: Aqueous

Sample Name:	Estel Natural Alkaline Water				
Lab Number:	2636528.1				

Individual Tests

Permanganate Value*	g/m ³ as O ₂	< 0.10	-	-	-	-
Bromate	g/m ³	< 0.005	-	-	-	-
Fluoride	g/m ³	< 0.05	-	-	-	-
Methylene Blue Active Substances (MBAS)*‡	g/m ³	< 0.1	-	-	-	-
Dioxane*	g/m ³	< 2	-	-	-	-
Heterotrophic Plate Count 22°C (72 hrs)	cfu / mL	< 1 #1	-	-	-	-
Heterotrophic Plate Count 37°C (48 hrs)	cfu / mL	< 1 #1	-	-	-	-
Clostridium perfringens (incl spores)	cfu / 50mL	< 1	-	-	-	-
Total Coliforms	MPN / 100mL	< 1	-	-	-	-
Faecal Streptococcus	cfu / 250mL	< 1	-	-	-	-
Pseudomonas aeruginosa	cfu / 250mL	< 1 #1	-	-	-	-
Salmonella*	per 250mL	Not Detected	-	-	-	-
Shigella*‡	per 250mL	Not Detected	-	-	-	-

OrganoNitrogen & Phosphorus pesticides, trace, liq/liq GCMS

Acetochlor	g/m ³	< 0.00004	-	-	-	-
Alachlor	g/m ³	< 0.00004	-	-	-	-
Atrazine	g/m ³	< 0.00004	-	-	-	-
Atrazine-desethyl	g/m ³	< 0.00004	-	-	-	-
Atrazine-desisopropyl	g/m ³	< 0.00008	-	-	-	-
Azaconazole	g/m ³	< 0.00002	-	-	-	-
Azinphos-methyl	g/m ³	< 0.00008	-	-	-	-
Benalaxyl	g/m ³	< 0.00002	-	-	-	-
Bitertanol	g/m ³	< 0.00008	-	-	-	-
Bromacil	g/m ³	< 0.00004	-	-	-	-
Bromopropylate	g/m ³	< 0.00004	-	-	-	-
Butachlor	g/m ³	< 0.00004	-	-	-	-
Captan	g/m ³	< 0.00008	-	-	-	-
Carbaryl	g/m ³	< 0.00004	-	-	-	-
Carbofenothion	g/m ³	< 0.00004	-	-	-	-
Carbofuran	g/m ³	< 0.00004	-	-	-	-
Chlorfluazuron	g/m ³	< 0.00004	-	-	-	-
Chlorothalonil	g/m ³	< 0.00004	-	-	-	-
Chlorpyrifos	g/m ³	< 0.00004	-	-	-	-
Chlorpyrifos-methyl	g/m ³	< 0.00004	-	-	-	-
Chlortoluron	g/m ³	< 0.00008	-	-	-	-



This Laboratory is accredited by International Accreditation New Zealand (IANZ), which represents New Zealand in the International Laboratory Accreditation Cooperation (ILAC). Through the ILAC Mutual Recognition Arrangement (ILAC-MRA) this accreditation is internationally recognised. The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Sample Type: Aqueous

Sample Name:	Estel Natural Alkaline Water				
Lab Number:	2636528.1				
OrganoNitrogen & Phosphorus pesticides, trace, liq/liq GCMS					
Cyanazine	g/m ³	< 0.00004	-	-	-
Cyfluthrin	g/m ³	< 0.00004	-	-	-
Cyhalothrin	g/m ³	< 0.00004	-	-	-
Cypermethrin	g/m ³	< 0.00008	-	-	-
Deltamethrin (including Tralomethrin)	g/m ³	< 0.00006	-	-	-
Diazinon	g/m ³	< 0.00002	-	-	-
Dichlofluanid	g/m ³	< 0.00004	-	-	-
Dichloran	g/m ³	< 0.0002	-	-	-
Dichlorvos	g/m ³	< 0.00008	-	-	-
Difenoconazole	g/m ³	< 0.00008	-	-	-
Dimethoate	g/m ³	< 0.00008	-	-	-
Diphenylamine	g/m ³	< 0.00008	-	-	-
Diuron	g/m ³	< 0.00004	-	-	-
Fenpropimorph	g/m ³	< 0.00004	-	-	-
Fluazifop-butyl	g/m ³	< 0.00004	-	-	-
Fluometuron	g/m ³	< 0.00004	-	-	-
Flusilazole	g/m ³	< 0.00004	-	-	-
Fluvalinate	g/m ³	< 0.00004	-	-	-
Furalaxyl	g/m ³	< 0.00002	-	-	-
Haloxfop-methyl	g/m ³	< 0.00004	-	-	-
Hexaconazole	g/m ³	< 0.00004	-	-	-
Hexazinone	g/m ³	< 0.00002	-	-	-
IPBC (3-Iodo-2-propynyl-n-butylcarbamate)	g/m ³	< 0.0002	-	-	-
Kresoxim-methyl	g/m ³	< 0.00002	-	-	-
Linuron	g/m ³	< 0.00005	-	-	-
Malathion	g/m ³	< 0.00004	-	-	-
Metalaxyl	g/m ³	< 0.00004	-	-	-
Metolachlor	g/m ³	< 0.00004	-	-	-
Metribuzin	g/m ³	< 0.00004	-	-	-
Molinate	g/m ³	< 0.00008	-	-	-
Myclobutanil	g/m ³	< 0.00004	-	-	-
Naled	g/m ³	< 0.0002	-	-	-
Norflurazon	g/m ³	< 0.00008	-	-	-
Oxadiazon	g/m ³	< 0.00004	-	-	-
Oxyfluorfen	g/m ³	< 0.00002	-	-	-
Paclobutrazol	g/m ³	< 0.00004	-	-	-
Parathion-ethyl	g/m ³	< 0.00004	-	-	-
Parathion-methyl	g/m ³	< 0.00004	-	-	-
Pendimethalin	g/m ³	< 0.00004	-	-	-
Permethrin	g/m ³	< 0.00002	-	-	-
Pirimicarb	g/m ³	< 0.00004	-	-	-
Pirimiphos-methyl	g/m ³	< 0.00004	-	-	-
Prochloraz	g/m ³	< 0.0002	-	-	-
Procymidone	g/m ³	< 0.00004	-	-	-
Prometryn	g/m ³	< 0.00002	-	-	-
Propachlor	g/m ³	< 0.00004	-	-	-
Propanil	g/m ³	< 0.0002	-	-	-
Propazine	g/m ³	< 0.00002	-	-	-
Propiconazole	g/m ³	< 0.00004	-	-	-
Pyriproxyfen	g/m ³	< 0.00004	-	-	-
Quizalofop-ethyl	g/m ³	< 0.00004	-	-	-
Simazine	g/m ³	< 0.00004	-	-	-
Simetryn	g/m ³	< 0.00004	-	-	-
Sulfentrazone	g/m ³	< 0.0002	-	-	-

Sample Type: Aqueous

Sample Name:	Estel Natural Alkaline Water				
Lab Number:	2636528.1				
OrganoNitrogen & Phosphorus pesticides, trace, liq/liq GCMS					
TCMTB [2-(thiocyanomethylthio)benzothiazole, Busan]	g/m ³	< 0.00008	-	-	-
Tebuconazole	g/m ³	< 0.00004	-	-	-
Terbacil	g/m ³	< 0.00004	-	-	-
Terbufos	g/m ³	< 0.00004	-	-	-
Terbumeton	g/m ³	< 0.00004	-	-	-
Terbuthylazine	g/m ³	< 0.00002	-	-	-
Terbuthylazine-desethyl	g/m ³	< 0.00004	-	-	-
Terbutryn	g/m ³	< 0.00004	-	-	-
Thiabendazole	g/m ³	< 0.0002	-	-	-
Thiobencarb	g/m ³	< 0.00004	-	-	-
Tolyfluanid	g/m ³	< 0.00002	-	-	-
Triazophos	g/m ³	< 0.00004	-	-	-
Trifluralin	g/m ³	< 0.00004	-	-	-
Vinclozolin	g/m ³	< 0.00004	-	-	-
Multiresidue Extra Pesticides Trace in Water samples by Liq/liq					
Bendiocarb	g/m ³	< 0.00004	-	-	-
Benodanil	g/m ³	< 0.00008	-	-	-
Bifenthrin	g/m ³	< 0.00002	-	-	-
Bromophos-ethyl	g/m ³	< 0.00004	-	-	-
Bupirimate	g/m ³	< 0.00004	-	-	-
Buprofezin	g/m ³	< 0.00004	-	-	-
Captafol	g/m ³	< 0.0002	-	-	-
Carbofenthion	g/m ³	< 0.00004	-	-	-
Carboxin	g/m ³	< 0.00004	-	-	-
Chlorfenvinphos	g/m ³	< 0.00004	-	-	-
Chlorpropham	g/m ³	< 0.00008	-	-	-
Chlozolinate	g/m ³	< 0.00004	-	-	-
Coumaphos	g/m ³	< 0.00008	-	-	-
Cyproconazole	g/m ³	< 0.00004	-	-	-
Cyprodinil	g/m ³	< 0.00004	-	-	-
Demeton-S-methyl	g/m ³	< 0.00008	-	-	-
Dichlobenil	g/m ³	< 0.00004	-	-	-
Dichlofenthion	g/m ³	< 0.00004	-	-	-
Dicofol	g/m ³	< 0.0002	-	-	-
Dicrotophos	g/m ³	< 0.00004	-	-	-
Dinocap	g/m ³	< 0.0003	-	-	-
Disulfoton	g/m ³	< 0.00004	-	-	-
EPN	g/m ³	< 0.00004	-	-	-
Esfenvalerate	g/m ³	< 0.00004	-	-	-
Ethion	g/m ³	< 0.00004	-	-	-
Etrimfos	g/m ³	< 0.00004	-	-	-
Famphur	g/m ³	< 0.00004	-	-	-
Fenamiphos	g/m ³	< 0.00004	-	-	-
Fenarimol	g/m ³	< 0.00004	-	-	-
Fenitrothion	g/m ³	< 0.00004	-	-	-
Fenpropathrin	g/m ³	< 0.00004	-	-	-
Fensulfothion	g/m ³	< 0.00004	-	-	-
Fenthion	g/m ³	< 0.00004	-	-	-
Fenvalerate	g/m ³	< 0.00004	-	-	-
Folpet	g/m ³	< 0.00008	-	-	-
Hexythiazox	g/m ³	< 0.0002	-	-	-
Imazalil	g/m ³	< 0.0002	-	-	-
Indoxacarb	g/m ³	< 0.00004	-	-	-
Iodofenphos	g/m ³	< 0.00004	-	-	-

Sample Type: Aqueous

Sample Name:	Estel Natural Alkaline Water				
Lab Number:	2636528.1				

Multiresidue Extra Pesticides Trace in Water samples by Liq/liq

Isazophos	g/m ³	< 0.00004	-	-	-	-
Isofenphos	g/m ³	< 0.00002	-	-	-	-
Leptophos	g/m ³	< 0.00004	-	-	-	-
Methacrifos	g/m ³	< 0.00004	-	-	-	-
Methidathion	g/m ³	< 0.00004	-	-	-	-
Methiocarb	g/m ³	< 0.00004	-	-	-	-
Mevinphos	g/m ³	< 0.00008	-	-	-	-
Nitrofen	g/m ³	< 0.00008	-	-	-	-
Nitrothal-Isopropyl	g/m ³	< 0.00004	-	-	-	-
Oxychlorane	g/m ³	< 0.00002	-	-	-	-
Penconazole	g/m ³	< 0.00004	-	-	-	-
Phorate	g/m ³	< 0.00008	-	-	-	-
Phosmet	g/m ³	< 0.00004	-	-	-	-
Phosphamidon	g/m ³	< 0.00004	-	-	-	-
Propetamphos	g/m ³	< 0.00006	-	-	-	-
Propham	g/m ³	< 0.00004	-	-	-	-
Prothiofos	g/m ³	< 0.00004	-	-	-	-
Pyrazophos	g/m ³	< 0.00004	-	-	-	-
Pyrifenox	g/m ³	< 0.00004	-	-	-	-
Pyrimethanil	g/m ³	< 0.00004	-	-	-	-
Quintozene	g/m ³	< 0.00008	-	-	-	-
Sulfotep	g/m ³	< 0.00004	-	-	-	-
Tebufenpyrad	g/m ³	< 0.00002	-	-	-	-
Tetrachlorvinphos	g/m ³	< 0.00004	-	-	-	-
Thiometon	g/m ³	< 0.00008	-	-	-	-
Triadimefon	g/m ³	< 0.00004	-	-	-	-

Organochlorine Pesticides Trace in water, By Liq/Liq

Aldrin	g/m ³	< 0.000005	-	-	-	-
alpha-BHC	g/m ³	< 0.000010	-	-	-	-
beta-BHC	g/m ³	< 0.000010	-	-	-	-
delta-BHC	g/m ³	< 0.000010	-	-	-	-
gamma-BHC (Lindane)	g/m ³	< 0.000010	-	-	-	-
cis-Chlordane	g/m ³	< 0.000005	-	-	-	-
trans-Chlordane	g/m ³	< 0.000005	-	-	-	-
2,4'-DDD	g/m ³	< 0.000010	-	-	-	-
4,4'-DDD	g/m ³	< 0.000010	-	-	-	-
2,4'-DDE	g/m ³	< 0.000010	-	-	-	-
4,4'-DDE	g/m ³	< 0.000010	-	-	-	-
2,4'-DDT	g/m ³	< 0.000010	-	-	-	-
4,4'-DDT	g/m ³	< 0.000010	-	-	-	-
Total DDT Isomers	g/m ³	< 0.00006	-	-	-	-
Dieldrin	g/m ³	< 0.000005	-	-	-	-
Endosulfan I	g/m ³	< 0.000010	-	-	-	-
Endosulfan II	g/m ³	< 0.000010	-	-	-	-
Endosulfan sulphate	g/m ³	< 0.000010	-	-	-	-
Endrin	g/m ³	< 0.000005	-	-	-	-
Endrin aldehyde	g/m ³	< 0.000005	-	-	-	-
Endrin ketone	g/m ³	< 0.000010	-	-	-	-
Heptachlor	g/m ³	< 0.000005	-	-	-	-
Heptachlor epoxide	g/m ³	< 0.000005	-	-	-	-
Hexachlorobenzene	g/m ³	< 0.00004	-	-	-	-
Methoxychlor	g/m ³	< 0.000005	-	-	-	-

Analyst's Comments

‡ Analysis subcontracted to an external provider. Refer to the Summary of Methods section for more details.

#1 Statistically estimated count based on the theoretical countable range for the stated method.

Amended Report: This certificate of analysis replaces report '2636528-SPv1' issued on 29-Jun-2021 at 2:02 pm.
Reason for amendment: Dioxane analysis added as requested.

Appendix No.1 - Cawthron Report

Appendix No.2 - Eurofins Report

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Laboratories, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Aqueous

Test	Method Description	Default Detection Limit	Sample No
Individual Tests			
Permanganate Value*	Addition of standard potassium permanganate solution, incubation at 27°C for 4 hours, iodometric titration.	0.10 g/m ³ as O ₂	1
Bromate	Sample analysed as received, filtered if required. Ion Chromatography. US EPA Method 300.1 Part B (modified).	0.005 g/m ³	1
Fluoride	Direct measurement, ion selective electrode. APHA 4500-F ⁻ C 23 rd ed. 2017.	0.05 g/m ³	1
Methylene Blue Active Substances*	Subcontracted to Eurofins ELS Ltd, Lower Hutt. APHA 5540 C (modified) (On-line Edition).	0.1 g/m ³	1
Dioxane*	GC-FID analysis. In-house.	2 g/m ³	1
Heterotrophic Plate Count 22°C (72 hrs)	Count on Plate count agar, Incubated at 22°C for 72 hours. APHA 9215 B 23 rd ed. 2017.	1 cfu / mL	1
Heterotrophic Plate Count 37°C (48 hrs)	Count on Plate count agar, Incubated at 37°C for 48 hours. APHA 9215 B 23 rd ed. 2017.	1 cfu / mL	1
Clostridium perfringens (incl spores)	Membrane filtration, Count on TSC fluorocult agar, Incubated anaerobically at 44°C for 18 - 24 hours. MIMM 11.A3.	1 cfu / 50mL	1
Total Coliforms	MPN count using Colilert 18 (Incubated at 35°C for 18 hours) and 97 wells. APHA 9223 B 23 rd ed. 2017.	1 MPN / 100mL	1
Faecal Streptococcus	Membrane filtration, Count on mEnterococcus agar, Incubated at 35°C for 48 hours, Confirmation. MIMM 11.7.	1 cfu / 250mL	1
Pseudomonas aeruginosa	Membrane filtration, Count on mPAC agar, Incubated at 41.5°C for 72 hours, Confirmation. APHA 9213 E 23 rd ed. 2017.	1 cfu / 250mL	1
Salmonella*	Detection of Salmonella by qualitative real-time PCR. In-house method.	-	1
Shigella*	Culture Method. Subcontracted to Cawthron Institute, Nelson. Compendium 5 th Edn 2015 Ch 37.	-	1
Multiresidue Pesticides Trace in Water by Liq/liq GCMS	Liquid / liquid extraction, GC-ECD and GC-MS analysis. In-house based on US EPA 8081 and US EPA 8270.	-	1
Multiresidue Extra Pesticides Trace in Water samples by Liq/liq			
Bendiocarb	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Benodanil	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00008 g/m ³	1
Bifenthrin	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00002 g/m ³	1
Bromophos-ethyl	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Bupirimate	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Buprofezin	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Captafol	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.0002 g/m ³	1
Carboxin	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Chlorfenvinphos	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Chlorpropham	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00008 g/m ³	1

Sample Type: Aqueous			
Test	Method Description	Default Detection Limit	Sample No
Chlozolinate	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Coumaphos	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00008 g/m ³	1
Cyproconazole	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Cyprodinil	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Demeton-S-methyl	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00008 g/m ³	1
Dichlobenil	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Dichlofenthion	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Dicofol	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.0002 g/m ³	1
Dicrotophos	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Dinocap	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.0003 g/m ³	1
Disulfoton	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
EPN	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Esfenvalerate	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Ethion	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Etrimfos	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Famphur	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Fenamiphos	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Fenarimol	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Fenitrothion	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Fenpropathrin	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Fensulfothion	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Fenthion	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Fenvalerate	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Folpet	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00008 g/m ³	1
Hexythiazox	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.0002 g/m ³	1
Imazalil	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.0002 g/m ³	1
Indoxacarb	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Iodofenphos	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Isazophos	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Isofenphos	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00002 g/m ³	1
Leptophos	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Methacrifos	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Methidathion	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Methiocarb	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1

Sample Type: Aqueous			
Test	Method Description	Default Detection Limit	Sample No
Mevinphos	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00008 g/m ³	1
Nitrofen	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00008 g/m ³	1
Nitrothal-isopropyl	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Oxychlorthane	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00002 g/m ³	1
Penconazole	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Phorate	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00008 g/m ³	1
Phosmet	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Phosphamidon	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Propetamphos	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00006 g/m ³	1
Propham	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Prothiofos	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Pyrazophos	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Pyrifenox	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Pyrimethanil	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Quintozene	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00008 g/m ³	1
Sulfotep	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Tebufenpyrad	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00002 g/m ³	1
Tetrachlorvinphos	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1
Thiometon	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00008 g/m ³	1
Triadimefon	Liquid / liquid extraction, GC-MS analysis. In-house based on US EPA 8270.	0.00004 g/m ³	1

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

Testing was completed between 17-Jun-2021 and 21-Jul-2021. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

This certificate of analysis must not be reproduced, except in full, without the written consent of the signatory.

Kim Harrison MSc
Client Services Manager - Environmental



Cawthron Analytical Science
Ensuring Integrity Through Analytical Excellence.

Certificate of Analysis: Final

Cawthron Contract Number: 10579

Project Number: V91182

Hill Laboratories
Private Bag 3205
HAMILTON 3240

Attention: Environmental Reports Officer

Customer Order No: 156157
Customer Ref: EnvSubCawthron 233: 2636528.1
Email Recipients: Environmental Reports Officer, Subcontracting Hill Laboratories
Date Project Started: 17/06/2021 15:06

Sample Details

Laboratory ID: V91182-1 **Sample Type:** Still Bottled Water
Description: Still Bottled Water **Date Received:** 17/06/2021 07:55
Customer ID: 2636528.1


Analysis	Result	Units	Method
Shigella*	Not Detected	per 250mL	Compendium 5th Edn 2015 Ch 37

Results apply to samples as received unless otherwise specified.

Our routine detection limits for chemical testing relate to samples with a clean matrix.
Reported detection limits may be higher for individual samples if there is insufficient sample or the matrix is complex.

< means less than, > means greater than

Date Generated: 19/6/21

Authorised by: Ryan Hunter
Position: Senior Technician, Microbiology Laboratory
Signature: 

Report Number: 888090
Project Number: V91182

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* Indicates an analysis that is not ISO accredited

V18.54 SL:M

Page 1 of 1

Hill Laboratories Ltd - Hamilton
28 Duke St
Private Bag 3205
Hamilton 3240
Attention: Customer Services

Analytical Report

Report Number: 21/23414
Issue: 1
22 June 2021

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
21/23414-01	Hill Laboratories - MBAS		16/06/2021 00:00	17/06/2021 07:00	156156
Notes: EnvSubEurofinsELS 1004 2636528.1					
Test	Result	Units	Test Date	Signatory	
0011 Detergent	< 0.1	g/m ³	21/06/2021	Marylou Cabral .	

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
Detergent	Reported as anionic surfactants as Methylene Blue Active Substances following APHA Online Edition Method 5540 C - modified in house.	0.1 g/m ³

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