

Annual Chemical Analysis Report - 2026

Determinants	Units	Guideline Value	Maximum Acceptable Value	1/2 MAV	S00580	S00577	S00579	G01673	S00827	G01961-2	G01961	G00726	S00828
					Acheron	Arthur's Pass	Castle Hill	Claremont	Dalethorpe	Darfield	Darfield	Dunsandel	Hartleys
Absorbance at 254 nm	AU cm ⁻¹		-	-	0.007	0.011	0.004	< 0.002	0.023	< 0.002	< 0.002	0.004	0.009
Approx Total Dissolved Salts	(g/m ³)	<1000	-	-	51	64	37	73	77	117	110	122	70
Bromide	(g/m ³)	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chloride	(g/m ³)	<250	-	-	0.8	< 0.5	< 0.5	4.1	3.9	8.2	7.7	7.3	2.5
Electrical Conductivity	(µS/cm)	-	-	-	76	96	56	110	116	174	164	182	104
Electrical Conductivity	(mS/m)	-	-	-	7.6	9.6	5.6	11	11.6	17.4	16.4	18.2	10.4
Fluoride	(g/m ³)		1.5	0.75	0.06	< 0.05	0.09	0.05	0.15	< 0.05	< 0.05	0.09	0.1
Free Carbon Dioxide	(g/m ³ at 25°C)	-	-	-	1.5	1.6	2.5	1.4	4.5	1.5	1.7	3.1	15.1
Nitrate	(g/m ³)	-	50	25	< 0.3	< 0.3	0.3	5.8	1.9	26	23	15.5	1.4
Nitrate-N	(g/m ³)	-	11.3	5.65	< 0.05	< 0.05	0.06	1.3	0.44	6	5.2	3.5	0.32
Nitrite	(g/m ³)	-	3	1.5	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Nitrite-N	(g/m ³)	-	0.91	0.455	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
pH	pH units	7.0 - 8.5	-	-	7.6	7.7	7.3	7.7	7.3	7.8	7.7	7.5	6.7
Sulphate	(g/m ³)	<250	-	-	2.2	6.3	3.1	3.4	2.7	1.1	1.1	7.1	3
Total Alkalinity	(g/m ³ as CaCO ₃)	-	-	-	34	39	23	38	47	46	45	54	42
Total Antimony	(g/m ³)	-	0.02	0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Total Arsenic	(g/m ³)	-	0.01	0.02	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Total Barium	(g/m ³)	-	1.5	0.75	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053
Total Boron	(g/m ³)	-	2.4	1.2	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Total Cadmium	(g/m ³)	-	0.004	0.002	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053
Total Calcium	(g/m ³)	-	-	-	11	15.7	7.4	13.6	11.9	20	19	16.5	11.4
Total Chromium	(g/m ³)	-	0.05	0.025	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
Total Copper	(g/m ³)	<1	2	1	0.00101	0.0024	0.0042	0.0059	0.00127	0.00171	0.00102	0.002	0.0117
Total Hardness	(g/m ³ as CaCO ₃)	<200	-	-	33	42	22	39	44	58	55	64	38
Total Iron	(g/m ³)	<0.3	-	-	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
Total Lead	(g/m ³)	-	0.01	0.005	0.0002	0.00014	0.00032	0.00041	0.0002	0.00019	0.00019	0.00013	0.00107
Total Magnesium	(g/m ³)	200	-	-	1.23	0.64	0.79	1.28	3.6	1.98	1.88	5.5	2.4
Total Manganese	(g/m ³)	<0.04	0.4	0.2	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
Total Mercury	(g/m ³)	-	0.007	0.0035	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Total Nickel	(g/m ³)	-	0.08	0.04	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
Total Organic Carbon	(g/m ³)	-	-	-	< 0.5	< 0.5	< 0.5	< 0.5	1.6	< 0.5	< 0.5	< 0.5	< 0.5
Total Potassium	(g/m ³)	-	-	-	0.24	0.34	0.32	0.83	0.53	0.96	0.87	1.12	0.67
Total Selenium	(g/m ³)	-	0.04	0.02	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Total Sodium	(g/m ³)	<200	-	-	1.97	1.83	2.3	5.5	5.7	9.7	8.9	9.5	4.9
Total Zinc	(g/m ³)	<1.5	-	-	< 0.0011	0.005	< 0.0011	0.0082	0.0013	0.0097	0.0161	0.0123	0.007
Transmittance at 254 nm	%T, 1 cm cell	80	-	-	98.3	97.5	99.1	> 99.5	94.9	> 99.5	> 99.5	99	97.9
Turbidity	NTU	2	5	2.5	0.21	0.08	1.15	0.24	0.06	0.25	< 0.05	0.07	0.14

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Determinants	Units	Guideline Value	Maximum Acceptable Value	1/2 MAV	G00822	G00671	G00725	S00578	G03119	G00501	G03127	G11199	G02129
					Hororata	Jowers Rd	Kirwee	Lake Coleridge	Leeston	Leeston	Lincoln	Lincoln	Lincoln
Absorbance at 254 nm	AU cm ⁻¹		-	-	0.02	0.003	< 0.002	0.005	< 0.002	< 0.002	0.004	< 0.002	0.004
Approx Total Dissolved Salts	(g/m ³)	<1000	-	-	68	117	115	44	82	74	99	99	98
Bromide	(g/m ³)	-	-	-	< 0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chloride	(g/m ³)	<250	-	-	2.6	6.3	8.4	0.7	5.2	4.3	8.2	8.2	7.7
Electrical Conductivity	(µS/cm)	-	-	-	102	175	171	66	122	111	147	147	146
Electrical Conductivity	(mS/m)	-	-	-	10.2	17.5	17.1	6.6	12.2	11.1	14.7	14.7	14.6
Fluoride	(g/m ³)		1.5	0.75	0.11	0.05	0.05	< 0.05	< 0.05	0.08	0.07	0.07	0.07
Free Carbon Dioxide	(g/m ³ at 25°C)	-	-	-	7	4.1	1.4	1	1.5	1.4	1.3	1.5	1.6
Nitrate	(g/m ³)	-	50	25	0.9	11	26	< 0.3	7.1	4.7	8.5	8.4	6
Nitrate-N	(g/m ³)	-	11.3	5.65	0.21	2.5	5.8	< 0.05	1.61	1.05	1.92	1.9	1.36
Nitrite	(g/m ³)	-	3	1.5	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Nitrite-N	(g/m ³)	-	0.91	0.455	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
pH	pH units	7.0 - 8.5	-	-	7.1	7.5	7.8	7.7	7.8	7.8	7.9	7.8	7.8
Sulphate	(g/m ³)	<250	-	-	2.8	6.4	3.1	3.9	2	2	1.6	1.6	2.1
Total Alkalinity	(g/m ³ as CaCO ₃)	-	-	-	43	60	41	27	44	43	50	50	51
Total Antimony	(g/m ³)	-	0.02	0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Total Arsenic	(g/m ³)	-	0.01	0.02	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Total Barium	(g/m ³)	-	1.5	0.75	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053
Total Boron	(g/m ³)	-	2.4	1.2	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Total Cadmium	(g/m ³)	-	0.004	0.002	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053
Total Calcium	(g/m ³)	-	-	-	11.5	23	20	9.4	12.4	11.5	16.4	16.3	16.3
Total Chromium	(g/m ³)	-	0.05	0.025	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
Total Copper	(g/m ³)	<1	2	1	0.0108	0.0048	0.00097	0.00119	0.00092	0.00077	0.00079	0.00062	0.00114
Total Hardness	(g/m ³ as CaCO ₃)	<200	-	-	39	69	59	26	43	39	49	49	48
Total Iron	(g/m ³)	<0.3	-	-	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
Total Lead	(g/m ³)	-	0.01	0.005	0.00091	0.00052	< 0.00011	0.00016	0.00021	0.00021	0.00019	0.00021	0.00023
Total Magnesium	(g/m ³)	200	-	-	2.6	2.8	2	0.71	2.9	2.6	2	2	1.84
Total Manganese	(g/m ³)	<0.04	0.4	0.2	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
Total Mercury	(g/m ³)	-	0.007	0.0035	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Total Nickel	(g/m ³)	-	0.08	0.04	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
Total Organic Carbon	(g/m ³)	-	-	-	0.7	< 0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	< 0.5	1
Total Potassium	(g/m ³)	-	-	-	0.66	1.03	1.17	0.4	0.86	0.81	0.9	0.9	0.9
Total Selenium	(g/m ³)	-	0.04	0.02	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Total Sodium	(g/m ³)	<200	-	-	4.8	6.7	8.5	2	6.4	6	8.4	8.3	8.3
Total Zinc	(g/m ³)	<1.5	-	-	0.0088	0.029	0.012	0.003	0.0066	0.0069	0.0102	0.009	0.0051
Transmittance at 254 nm	%T, 1 cm cell	80	-	-	95.5	99.4	> 99.5	98.8	> 99.5	> 99.5	99.1	> 99.5	99.2
Turbidity	NTU	2	5	2.5	0.14	0.07	< 0.05	0.78	0.09	0.05	< 0.05	0.08	0.06

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Determinants	Units	Guideline Value	Maximum Acceptable Value	1/2 MAV	G03115	G00165	G00463	G02128	G03114	G00668	G11328	G02009	G03020
					Lincoln	Prebbleton	Prebbleton	Prebbleton	Prebbleton	Rakaia Huts	Rolleston	Rolleston	Rolleston
Absorbance at 254 nm	AU cm ⁻¹		-	-	0.009	< 0.002	0.003	0.004	< 0.002	< 0.002	0.002	0.002	< 0.002
Approx Total Dissolved Salts	(g/m ³)	<1000	-	-	96	83	80	86	87	69	99	141	95
Bromide	(g/m ³)	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.07	0.05
Chloride	(g/m ³)	<250	-	-	7.8	5	4.7	5.4	5	2	8.1	14.8	8.4
Electrical Conductivity	(µS/cm)	-	-	-	143	124	119	129	129	103	148	210	142
Electrical Conductivity	(mS/m)	-	-	-	14.3	12.4	11.9	12.9	12.9	10.3	14.8	21	14.2
Fluoride	(g/m ³)		1.5	0.75	0.06	0.06	0.06	0.06	0.07	0.08	0.05	0.06	0.05
Free Carbon Dioxide	(g/m ³ at 25°C)	-	-	-	1.3	1.3	1.2	1.2	1.3	2.4	< 1.0	3.2	2.3
Nitrate	(g/m ³)	-	50	25	5.7	3.1	3.4	3.3	2.3	3.4	14.7	28	14.6
Nitrate-N	(g/m ³)	-	11.3	5.65	1.29	0.7	0.77	0.74	0.52	0.76	3.3	6.3	3.3
Nitrite	(g/m ³)	-	3	1.5	< 0.007	< 0.007	0.015	0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Nitrite-N	(g/m ³)	-	0.91	0.455	< 0.002	< 0.002	0.005	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
pH	pH units	7.0 - 8.5	-	-	7.9	7.8	7.9	7.9	7.9	7.6	8	7.5	7.6
Sulphate	(g/m ³)	<250	-	-	2.4	2.9	2.9	2.5	2.6	3.6	1.3	6.1	1.4
Total Alkalinity	(g/m ³ as CaCO ₃)	-	-	-	49	47	44	49	51	42	46	50	45
Total Antimony	(g/m ³)	-	0.02	0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Total Arsenic	(g/m ³)	-	0.01	0.02	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Total Barium	(g/m ³)	-	1.5	0.75	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053
Total Boron	(g/m ³)	-	2.4	1.2	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Total Cadmium	(g/m ³)	-	0.004	0.002	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053
Total Calcium	(g/m ³)	-	-	-	16.7	14.4	13.9	15.2	15	13.7	17.3	21	16.8
Total Chromium	(g/m ³)	-	0.05	0.025	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
Total Copper	(g/m ³)	<1	2	1	0.00075	< 0.00053	0.0021	0.00154	0.0023	0.0025	0.00096	0.00136	0.00084
Total Hardness	(g/m ³ as CaCO ₃)	<200	-	-	48	42	41	44	44	39	50	70	50
Total Iron	(g/m ³)	<0.3	-	-	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	0.061	0.055	< 0.021
Total Lead	(g/m ³)	-	0.01	0.005	0.00018	0.00014	0.00028	< 0.00011	0.0004	0.0003	0.00118	0.00042	0.00038
Total Magnesium	(g/m ³)	200	-	-	1.57	1.54	1.47	1.47	1.58	1.2	1.7	4.3	1.85
Total Manganese	(g/m ³)	<0.04	0.4	0.2	< 0.00053	< 0.00053	< 0.00053	0.00056	< 0.00053	< 0.00053	0.0026	0.0021	< 0.00053
Total Mercury	(g/m ³)	-	0.007	0.0035	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Total Nickel	(g/m ³)	-	0.08	0.04	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
Total Organic Carbon	(g/m ³)	-	-	-	< 0.5	< 0.5	0.6	0.7	0.9	< 0.5	< 0.5	< 0.5	< 0.5
Total Potassium	(g/m ³)	-	-	-	0.87	0.78	0.78	0.83	0.83	0.9	0.91	1.33	0.96
Total Selenium	(g/m ³)	-	0.04	0.02	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Total Sodium	(g/m ³)	<200	-	-	8	6.9	6.6	7	7.3	4.1	8	12.9	8.1
Total Zinc	(g/m ³)	<1.5	-	-	0.0042	0.0028	0.0049	0.003	0.0122	0.0093	0.0123	0.079	0.0084
Transmittance at 254 nm	%T, 1 cm cell	80	-	-	98	> 99.5	99.3	99.1	> 99.5	> 99.5	99.5	99.5	> 99.5
Turbidity	NTU	2	5	2.5	< 0.05	0.08	0.09	0.12	0.15	< 0.05	0.61	0.71	0.15

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Determinants	Units	Guideline Value	Maximum Acceptable Value	1/2 MAV	G01874	G01672	G02191	G00167	G02192	G03084	G11197	G11196	G01113
					Rolleston	Rolleston	Rolleston	Rolleston	Rolleston	Rolleston	Rolleston	Rolleston	Rolleston
Absorbance at 254 nm	AU cm ⁻¹		-	-	< 0.002	< 0.002	< 0.002	0.013	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Approx Total Dissolved Salts	(g/m ³)	<1000	-	-	100	94	97	88	100	102	89	90	120
Bromide	(g/m ³)	-	-	-	0.06	< 0.05	0.05	< 0.05	0.05	0.06	< 0.05	< 0.05	0.07
Chloride	(g/m ³)	<250	-	-	9.1	7.7	8.6	6.6	10.2	10.7	6.5	7.3	13
Electrical Conductivity	(µS/cm)	-	-	-	150	140	145	131	149	152	133	135	180
Electrical Conductivity	(mS/m)	-	-	-	15	14	14.5	13.1	14.9	15.2	13.3	13.5	18
Fluoride	(g/m ³)		1.5	0.75	0.15	0.06	< 0.05	0.05	0.05	< 0.05	0.06	0.05	< 0.05
Free Carbon Dioxide	(g/m ³ at 25°C)	-	-	-	2.3	2.4	2.3	2.3	2.4	2.4	2.3	2.4	2.4
Nitrate	(g/m ³)	-	50	25	15.4	12.9	15.4	6.7	12.9	15.1	5.7	7.2	21
Nitrate-N	(g/m ³)	-	11.3	5.65	3.5	2.9	3.5	1.5	2.9	3.4	1.29	1.62	4.7
Nitrite	(g/m ³)	-	3	1.5	< 0.007	0.014	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Nitrite-N	(g/m ³)	-	0.91	0.455	< 0.002	0.004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
pH	pH units	7.0 - 8.5	-	-	7.6	7.6	7.6	7.6	7.6	7.6	7.7	7.6	7.6
Sulphate	(g/m ³)	<250	-	-	1.5	1.4	1.5	1.5	2.1	1.9	1.5	1.7	2.6
Total Alkalinity	(g/m ³ as CaCO ₃)	-	-	-	45	46	44	50	48	45	52	51	48
Total Antimony	(g/m ³)	-	0.02	0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Total Arsenic	(g/m ³)	-	0.01	0.02	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Total Barium	(g/m ³)	-	1.5	0.75	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053
Total Boron	(g/m ³)	-	2.4	1.2	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Total Cadmium	(g/m ³)	-	0.004	0.002	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053
Total Calcium	(g/m ³)	-	-	-	17.6	16.8	17.2	15.6	17.4	17.5	15.6	16	20
Total Chromium	(g/m ³)	-	0.05	0.025	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
Total Copper	(g/m ³)	<1	2	1	0.0026	0.00108	0.00069	0.00099	0.00069	0.00081	0.00108	0.00092	0.00145
Total Hardness	(g/m ³ as CaCO ₃)	<200	-	-	52	49	50	48	52	51	48	50	61
Total Iron	(g/m ³)	<0.3	-	-	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
Total Lead	(g/m ³)	-	0.01	0.005	0.00066	0.00012	0.00024	0.00022	< 0.00011	0.00012	0.00016	< 0.00011	< 0.00011
Total Magnesium	(g/m ³)	200	-	-	1.85	1.81	1.75	2.1	2.1	1.81	2.3	2.3	2.4
Total Manganese	(g/m ³)	<0.04	0.4	0.2	< 0.00053	< 0.00053	0.00089	< 0.00053	0.00068	< 0.00053	< 0.00053	0.00076	< 0.00053
Total Mercury	(g/m ³)	-	0.007	0.0035	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Total Nickel	(g/m ³)	-	0.08	0.04	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
Total Organic Carbon	(g/m ³)	-	-	-	< 0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Potassium	(g/m ³)	-	-	-	0.98	0.95	0.95	0.9	0.98	0.97	0.93	0.93	1.07
Total Selenium	(g/m ³)	-	0.04	0.02	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Total Sodium	(g/m ³)	<200	-	-	8.6	8	8.2	7.6	9	9.1	7.7	7.8	10.8
Total Zinc	(g/m ³)	<1.5	-	-	0.0139	0.0051	0.0142	0.0057	0.0089	0.008	0.01	0.0112	0.022
Transmittance at 254 nm	%T, 1 cm cell	80	-	-	> 99.5	> 99.5	> 99.5	97.1	> 99.5	> 99.5	> 99.5	> 99.5	> 99.5
Turbidity	NTU	2	5	2.5	0.26	0.09	0.34	0.38	0.4	0.06	0.71	0.2	0.32

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Determinents	Units	Guideline Value	Maximum Acceptable Value	1/2 MAV	G11246	G00820	G03053	S10058	G01794	G00675	G00680	G01169	G01315
					Sheffield	Sheffield	Southbridge	Springfield	Springston	Tai Tapu	Taumutu	Te Pirita	Upper Selwyn Huts
Absorbance at 254 nm	AU cm ⁻¹	-	-	-	0.02	0.018	0.004	0.016	< 0.002	< 0.002	< 0.002	0.002	< 0.002
Approx Total Dissolved Salts	(g/m ³)	<1000	-	-	87	87	107	67	100	99	73	108	121
Bromide	(g/m ³)	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chloride	(g/m ³)	<250	-	-	5.4	5.4	5.3	2.4	9.1	6.4	5.4	5.8	7.4
Electrical Conductivity	(µS/cm)	-	-	-	130	129	159	100	150	148	109	161	181
Electrical Conductivity	(mS/m)	-	-	-	13	12.9	15.9	10	15	14.8	10.9	16.1	18.1
Fluoride	(g/m ³)	-	1.5	0.75	0.12	0.11	< 0.05	0.12	< 0.05	0.08	0.07	0.05	0.08
Free Carbon Dioxide	(g/m ³ at 25°C)	-	-	-	4.3	6.4	1.5	7	1.4	2	1.4	1.7	2.4
Nitrate	(g/m ³)	-	50	25	9	9.1	14.1	4.8	8.8	1.4	6.5	20	1
Nitrate-N	(g/m ³)	-	11.3	5.65	2	2.1	3.2	1.07	1.99	0.31	1.47	4.6	0.22
Nitrite	(g/m ³)	-	3	1.5	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Nitrite-N	(g/m ³)	-	0.91	0.455	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
pH	pH units	7.0 - 8.5	-	-	7.3	7.1	7.9	7	7.8	7.8	7.7	7.8	7.8
Sulphate	(g/m ³)	<250	-	-	5.9	5.9	4.4	3.3	1.9	2.5	2.1	3.6	2.1
Total Alkalinity	(g/m ³ as CaCO ₃)	-	-	-	39	39	53	38	49	60	37	47	77
Total Antimony	(g/m ³)	-	0.02	0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Total Arsenic	(g/m ³)	-	0.01	0.02	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Total Barium	(g/m ³)	-	1.5	0.75	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053
Total Boron	(g/m ³)	-	2.4	1.2	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Total Cadmium	(g/m ³)	-	0.004	0.002	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053
Total Calcium	(g/m ³)	-	-	-	11.4	11.7	20	10.9	16.8	15.9	11.7	21	19.6
Total Chromium	(g/m ³)	-	0.05	0.025	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
Total Copper	(g/m ³)	<1	2	1	0.0047	0.0038	0.006	0.0051	0.0013	0.00119	0.0012	0.00165	0.00183
Total Hardness	(g/m ³ as CaCO ₃)	<200	-	-	44	46	58	39	50	51	38	64	63
Total Iron	(g/m ³)	<0.3	-	-	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
Total Lead	(g/m ³)	-	0.01	0.005	0.00077	0.00035	0.00043	0.00066	0.00013	0.00022	0.00028	0.0008	0.00056
Total Magnesium	(g/m ³)	200	-	-	3.7	4	1.97	2.9	2	2.7	2	2.5	3.5
Total Manganese	(g/m ³)	<0.04	0.4	0.2	< 0.00053	< 0.00053	< 0.00053	0.00175	< 0.00053	< 0.00053	0.00058	< 0.00053	< 0.00053
Total Mercury	(g/m ³)	-	0.007	0.0035	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Total Nickel	(g/m ³)	-	0.08	0.04	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
Total Organic Carbon	(g/m ³)	-	-	-	0.6	1.2	0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Potassium	(g/m ³)	-	-	-	1.03	1.02	1.2	0.64	0.89	0.83	0.89	1.09	0.98
Total Selenium	(g/m ³)	-	0.04	0.02	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Total Sodium	(g/m ³)	<200	-	-	7.2	7	7.1	4	8.6	9.1	6.2	5.4	11.6
Total Zinc	(g/m ³)	<1.5	-	-	0.0046	0.042	0.0112	0.0031	0.0064	0.0114	0.0027	0.0036	0.0139
Transmittance at 254 nm	%T, 1 cm cell	80	-	-	95.4	95.9	99.1	96.3	> 99.5	> 99.5	> 99.5	99.5	> 99.5
Turbidity	NTU	2	5	2.5	0.22	0.11	0.15	0.67	0.49	0.12	0.12	0.06	1.38

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Determinants	Units	Guideline Value	Maximum Acceptable Value	1/2 MAV	G01775	G03061	G01958	G01957	G02166
					West Melton	West Melton	West Melton	West Melton	West Melton
Absorbance at 254 nm	AU cm ⁻¹		-	-	< 0.002	0.002	0.004	0.004	< 0.002
Approx Total Dissolved Salts	(g/m ³)	<1000	-	-	95	79	88	88	91
Bromide	(g/m ³)	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chloride	(g/m ³)	<250	-	-	4.2	4.4	3.4	3.5	7
Electrical Conductivity	(µS/cm)	-	-	-	141	118	131	131	136
Electrical Conductivity	(mS/m)	-	-	-	14.1	11.8	13.1	13.1	13.6
Fluoride	(g/m ³)		1.5	0.75	0.06	< 0.05	0.06	0.06	< 0.05
Free Carbon Dioxide	(g/m ³ at 25°C)	-	-	-	6.6	1.3	2.1	2	1.2
Nitrate	(g/m ³)	-	50	25	8	9.1	6.9	7.4	10.5
Nitrate-N	(g/m ³)	-	11.3	5.65	1.81	2.1	1.56	1.66	2.4
Nitrite	(g/m ³)	-	3	1.5	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Nitrite-N	(g/m ³)	-	0.91	0.455	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
pH	pH units	7.0 - 8.5	-	-	7.2	7.8	7.6	7.6	7.8
Sulphate	(g/m ³)	<250	-	-	6.9	3.5	6.5	6.5	2.9
Total Alkalinity	(g/m ³ as CaCO ₃)	-	-	-	49	38	45	44	42
Total Antimony	(g/m ³)	-	0.02	0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Total Arsenic	(g/m ³)	-	0.01	0.02	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Total Barium	(g/m ³)	-	1.5	0.75	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053
Total Boron	(g/m ³)	-	2.4	1.2	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Total Cadmium	(g/m ³)	-	0.004	0.002	< 0.000053	< 0.000053	< 0.000053	< 0.000053	< 0.000053
Total Calcium	(g/m ³)	-	-	-	17.3	14.4	17.1	16.8	16.1
Total Chromium	(g/m ³)	-	0.05	0.025	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
Total Copper	(g/m ³)	<1	2	1	0.0036	0.00065	0.00163	0.0046	0.00168
Total Hardness	(g/m ³ as CaCO ₃)	<200	-	-	53	43	52	51	46
Total Iron	(g/m ³)	<0.3	-	-	< 0.021	< 0.021	0.141	0.03	< 0.021
Total Lead	(g/m ³)	-	0.01	0.005	0.00025	< 0.00011	0.00023	0.00021	0.00018
Total Magnesium	(g/m ³)	200	-	-	2.4	1.7	2.2	2.3	1.46
Total Manganese	(g/m ³)	<0.04	0.4	0.2	0.00162	0.00063	0.0084	0.0008	< 0.00053
Total Mercury	(g/m ³)	-	0.007	0.0035	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Total Nickel	(g/m ³)	-	0.08	0.04	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
Total Organic Carbon	(g/m ³)	-	-	-	< 0.5	< 0.5	0.9	< 0.5	0.5
Total Potassium	(g/m ³)	-	-	-	0.95	0.87	0.91	0.92	0.92
Total Selenium	(g/m ³)	-	0.04	0.02	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Total Sodium	(g/m ³)	<200	-	-	5.8	5.6	5.1	5.3	7.3
Total Zinc	(g/m ³)	<1.5	-	-	0.151	0.026	0.043	0.0195	0.0169
Transmittance at 254 nm	%T, 1 cm cell	80	-	-	> 99.5	99.5	99.2	99	> 99.5
Turbidity	NTU	2	5	2.5	0.27	0.07	1.58	1.57	0.21