ANALYTICAL REPORT

REPORT CODE	AR-26-NC-024449-01	REPORT DATE	20/07/2026

Contact for your orders:		**Order code:**	EUNZCH-00261567
Contract:	Cardrona Valley WTP		
Submission Reference:	Apex Cardrona Valley WTP Raw	**Purchase Order Number:**	5934

SAMPLE CODE	817-2026-00064672
Product:	Surface water, raw water
Limits:	

Sampling Point code:	NC0001259013	**Sampling Point name:**	Cardrona River Intake Raw Water
Reception Date & Time:	15/07/2026 14:59	**Reception temperature:**	4.2 °C
Analysis Started on:	15/07/2026	**Analysis Ending Date:**	20/07/2026
Product Type	Surface water, raw water	**Sampled Date & Time**	15/07/2026 12:24
Sampler(s)		**Sampling Purpose**	Monitoring
Sampled By Eurofins	Yes	**OSO Weather**	Overcast

		RESULTS (UNCERTAINTY)	LOQ	SPECIFICATIONS
①NC03W	**pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)**			
	pH	7.7	(± 0.2)	0.1
②NW003	**Total Alkalinity**			
	Alkalinity total	31	(± 3) mg CaCO3/l	1
②NW007	**Chloride**			
	Chloride (Cl)	0.69	(± 0.07) mg/l	0.02
②NW010	**Nitrate-N**			
	Nitrate-N	0.04	(± 0.01) mg/l	0.01
②NW011	**Sulphate**			
	Sulphate	2.44	(± 0.24) mg/l	0.02
②NW030	**Total Hardness**			
	Hardness	35	(± 4) mg CaCO3/l	1
②NW148	**Total Antimony**			
	Antimony (Sb)	<0.002	mg/l	0.002
②NW149	**Total Arsenic**			
	Arsenic (As)	<0.002	(± 0.003) mg/l	0.002
②NW150	**Total Barium**			
	Barium (Ba)	0.023	(± 0.004) mg/l	0.005
②NW154	**Total Cadmium**			
	Cadmium (Cd)	<0.001	mg/l	0.001
②NW156	**Total Calcium**			
	Calcium (Ca)	11.4	(± 1.1) mg/l	0.1
②NW157	**Total Chromium**			
	Chromium (Cr)	0.004	(± 0.003) mg/l	0.001

		RESULTS (UNCERTAINTY)		LOQ	SPECIFICATIONS
②NW159	**Total Copper**				
	Copper (Cu)	0.004	(± 0.003) mg/l	0.002	
②NW160	**Total Iron**				
	Iron (Fe)	1.5	(± 0.2) mg/l	0.1	
②NW161	**Total Lead**				
	Lead (Pb)	0.001	(± 0.003) mg/l	0.001	
②NW163	**Total Magnesium**				
	Magnesium (Mg)	1.6	(± 0.2) mg/l	0.1	
②NW164	**Total Manganese**				
	Manganese (Mn)	0.039	(± 0.005) mg/l	0.001	
②NW165	**Total Mercury**				
	Mercury (Hg)	<0.001	mg/l	0.001	
②NW167	**Total Nickel**				
	Nickel (Ni)	0.002	(± 0.003) mg/l	0.001	
②NW171	**Total Sodium**				
	Sodium (Na)	1.7	(± 0.2) mg/l	0.1	
②NW331	**Colour**				
	Colour	11	Colour unit	5	
ZMQTN	**Enumeration of Escherichia coli and Total Coliforms by Membrane Filtration**				
	Escherichia coli	13	cfu/100 ml	1	
	Total Coliforms	1500	cfu/100 ml	1	

LIST OF METHODS

NC03W **pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW003 **Total Alkalinity:** APHA 24th Edition 2320 B

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW011 **Sulphate:** APHA 24th Edition 4110 B

NW030 **Total Hardness:** APHA 24th Edition 2340 B

NW148 **Total Antimony:** APHA 24th Edition 3125 B mod.

NW149 **Total Arsenic:** APHA 24th Edition 3125 B mod.

NW150 **Total Barium:** APHA 24th Edition 3125 B mod.

NW154 **Total Cadmium:** APHA 24th Edition 3125 B mod.

NW156 **Total Calcium:** APHA 24th Edition 3125 B mod.

NW157 **Total Chromium:** APHA 24th Edition 3125 B mod.

NW159 **Total Copper:** APHA 24th Edition 3125 B mod.

NW160 **Total Iron:** APHA 24th Edition 3125 B mod.

NW161 **Total Lead:** APHA 24th Edition 3125 B mod.

NW163 **Total Magnesium:** APHA 24th Edition 3125 B mod.

NW164 **Total Manganese:** APHA 24th Edition 3125 B mod.

NW165 **Total Mercury:** APHA 24th Edition 3125 B mod.

NW167 **Total Nickel:** APHA 24th Edition 3125 B mod.

NW171 **Total Sodium:** APHA 24th Edition 3125 B mod.

NW331 **Colour:** APHA 24th Edition 2120 C

ZMQTN **Escherichia coli-Total Coliforms E [QNT] <1 >8 000 cfu/100 ml (0) MI Agar-F:** SMEWW 9222K; APHA 24th Edition

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
⑨ Test is RLP accredited
⑩ Test is subcontracted within Eurofins group and is RLP 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
✗ (Unsatisfactory) means does not meet the specification
✓ (Satisfactory) means meets the specification
MAV means Maximum Allowable Value

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Unless otherwise stated, all tests (except subcontracted tests) are performed at Unit 1/74 Glenda Drive, Frankton, Queenstown.

END OF REPORT