

NORTHLAND REGIONAL COUNCIL

Report for Field Sheet Number 20250438

Lake Waingaro at Surface - intake/abstraction

Report generated 18/07/25 12:22

Sample ID = 20251983	Date Collected 5/05/2025	Time 10:25		
Site 101981	Lake Waingaro at Surface - intake/abstraction			
Measurement	Method	Value	Units	
Ammoniacal Nitrogen	Ammonia by DA	0.0098	g/m3-N	
Chlorophyll a	Chlorophyll by UVVIS	0.0062	g/m3	
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	51.2	us/cm	
Dissolved Oxygen	ODO	7.69	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	85.1	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	<0.002	g/m3-P	
Faecal Coliforms (presumptive)	Faecal coliforms by Membrane Filtration	54	CFU/100ml	
Iron Total	Iron (Total) by ICP-MS	0.23	g/m3	
Manganese Total	Manganese (Total) by ICP-MS	0.034	g/m3	
pH	pH (field meter)	6.58	pH	
Secchi	Secchi with viewer	3.97	m	
Temperature	Temperature - YSI	18.561	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.11	g/m3	
Total Nitrogen	TN by Calculation	0.12	g/m3-N	
Total Oxidised Nitrogen	NO3NO2 by FA	0.014	g/m3-N	
Total Phosphorus	TP by DA	0.005	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	0.53	g/m3	

Sample ID = 20251984	Date Collected 5/05/2025	Time 10:30		
Site 101982	Lake Waingaro at Bottom (18 m) at intake point			
Measurement	Method	Value	Units	
Ammoniacal Nitrogen	Ammonia by DA	0.21	g/m3-N	
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	79.1	us/cm	
Dissolved Oxygen	ODO	0.22	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	2.1	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	<0.002	g/m3-P	
Iron Total	Iron (Total) by ICP-MS	5	g/m3	
Manganese Total	Manganese (Total) by ICP-MS	0.46	g/m3	
pH	pH (field meter)	6.37	pH	
Temperature	Temperature - YSI	13.924	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.298	g/m3	
Total Nitrogen	TN by Calculation	0.3	g/m3-N	
Total Oxidised Nitrogen	NO3NO2 by FA	0.006	g/m3-N	
Total Phosphorus	TP by DA	0.007	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	1.2	g/m3	

Sample ID = 20251985	Date Collected 5/05/2025	Time 11:45		
Site 327836	Lake Manuwai Weir at Onekura Road			
Measurement	Method	Value	Units	
Ammoniacal Nitrogen	Ammonia by DA	0.016	g/m3-N	
Chlorophyll a	Chlorophyll by UVVIS	0.0026	g/m3	
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	61.2	us/cm	

Dissolved Oxygen	ODO	9.06	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	89	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.01	g/m3-P	
Faecal Coliforms (presumptive)	Faecal coliforms by Membrane Filtration	100	CFU/100ml	
Iron Total	Iron (Total) by ICP-MS	0.42	g/m3	
Manganese Total	Manganese (Total) by ICP-MS	0.014	g/m3	
pH	pH (field meter)	6.01	pH	
Temperature	Temperature - YSI	14.578	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.213	g/m3	
Total Nitrogen	TN by Calculation	0.37	g/m3-N	
Total Oxidised Nitrogen	NO3NO2 by FA	0.153	g/m3-N	
Total Phosphorus	TP by DA	0.02	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	0.5	g/m3	

Methods used: Standard Methods for the Examination of Water and Waste Water. APHA, AWWA, WEF, 1998 20th edition