

NORTHLAND REGIONAL COUNCIL

Report for Field Sheet Number 20241211

Lake Waingaro at Surface - intake/abstraction

Report generated 20/12/24 10:24

Sample ID = 20245311	Date Collected 28/11/2024	Time 09:30		
Site 101981	Lake Waingaro at Surface - intake/abstraction			
Measurement	Method	Value	Units	
Ammoniacal Nitrogen	Ammonia by DA	<0.005	g/m3-N	
Chlorophyll a	Chlorophyll by UVVIS	0.0022	g/m3	
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	51.3	us/cm	
Dissolved Oxygen	ODO	8.96	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	101.1	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.004	g/m3-P	
Faecal Coliforms (presumptive)	Faecal coliforms by Membrane Filtration	<1.6	CFU/100ml	
Iron Total	Iron (Total) by ICP-MS	0.092	g/m3	
Manganese Total	Manganese (Total) by ICP-MS	0.0071	g/m3	
Nitrite/nitrate nitrogen	NO3NO2 by FA	0.0067	g/m3-N	
pH	pH (field meter)	7.27	pH	
Secchi Depth - with viewer	Secchi with viewer	6.95	m	
Temperature	Temperature - YSI	21.289	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.123	g/m3	
Total Nitrogen	TN by Calculation	0.13	g/m3-N	
Total Phosphorus	TP by DA	<0.004	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	1.2	g/m3	

Sample ID = 20245312	Date Collected 28/11/2024	Time 09:35		
Site 101982	Lake Waingaro at Bottom (18 m) at intake point			
Measurement	Method	Value	Units	
Ammoniacal Nitrogen	Ammonia by DA	0.027	g/m3-N	
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	53.6	us/cm	
Dissolved Oxygen	ODO	0.19	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	1.9	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.005	g/m3-P	
Iron Total	Iron (Total) by ICP-MS	0.63	g/m3	
Manganese Total	Manganese (Total) by ICP-MS	0.28	g/m3	
Nitrite/nitrate nitrogen	NO3NO2 by FA	0.162	g/m3-N	
pH	pH (field meter)	5.81	pH	
Temperature	Temperature - YSI	13.42	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.224	g/m3	
Total Nitrogen	TN by Calculation	0.39	g/m3-N	
Total Phosphorus	TP by DA	0.006	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	2.8	g/m3	

Sample ID = 20245313	Date Collected 28/11/2024	Time 10:35		
Site 327836	Lake Manuwai Weir at Onekura Road			
Measurement	Method	Value	Units	
Ammoniacal Nitrogen	Ammonia by DA	0.0061	g/m3-N	
Chlorophyll a	Chlorophyll by UVVIS	0.0008	g/m3	
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	65	us/cm	

Dissolved Oxygen	ODO	6.44	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	68.4	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.007	g/m3-P	
Faecal Coliforms (presumptive)	Faecal coliforms by Membrane Filtration	86	CFU/100ml	
Iron Total	Iron (Total) by ICP-MS	0.56	g/m3	
Manganese Total	Manganese (Total) by ICP-MS	0.0089	g/m3	
Nitrite/nitrate nitrogen	NO3NO2 by FA	0.0589	g/m3-N	
pH	pH (field meter)	6.09	pH	
Temperature	Temperature - YSI	18.267	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.156	g/m3	
Total Nitrogen	TN by Calculation	0.21	g/m3-N	
Total Phosphorus	TP by DA	0.011	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	1.6	g/m3	

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