

# NORTHLAND REGIONAL COUNCIL

Report for Field Sheet Number 20250437

Lake Manuwai at Surface intake

Report generated 18/07/25 12:20

<b>Sample ID = 20251980</b>	<b>Date Collected 5/05/2025</b>	<b>Time 12:55</b>		
<b>Site 101985</b>	<b>Lake Manuwai at Surface intake</b>			
<b>Measurement</b>	<b>Method</b>	<b>Value</b>	<b>Units</b>	
Ammoniacal Nitrogen	Ammonia by DA	0.03	g/m3-N	
Chlorophyll a	Chlorophyll by UVVIS	0.0053	g/m3	
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	51.4	us/cm	
Dissolved Oxygen	ODO	7.61	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	82.3	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	<0.002	g/m3-P	
Faecal Coliforms (presumptive)	Faecal coliforms by Membrane Filtration	16	CFU/100ml	
Iron Total	Iron (Total) by ICP-MS	0.31	g/m3	
Manganese Total	Manganese (Total) by ICP-MS	0.034	g/m3	
pH	pH (field meter)	6.08	pH	
Secchi	Secchi with viewer	2.06	m	
Temperature	Temperature - YSI	19.162	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.246	g/m3	
Total Nitrogen	TN by Calculation	0.26	g/m3-N	
Total Oxidised Nitrogen	NO3NO2 by FA	0.011	g/m3-N	
Total Phosphorus	TP by DA	0.011	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	3.2	g/m3	

<b>Sample ID = 20251981</b>	<b>Date Collected 5/05/2025</b>	<b>Time 12:50</b>		
<b>Site 101986</b>	<b>Lake Manuwai at Bottom (13 m) intake point</b>			
<b>Measurement</b>	<b>Method</b>	<b>Value</b>	<b>Units</b>	
Ammoniacal Nitrogen	Ammonia by DA	0.025	g/m3-N	
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	51.4	us/cm	
Dissolved Oxygen	ODO	7.42	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	79.8	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	<0.002	g/m3-P	
Iron Total	Iron (Total) by ICP-MS	0.32	g/m3	
Manganese Total	Manganese (Total) by ICP-MS	0.036	g/m3	
pH	pH (field meter)	6.06	pH	
Temperature	Temperature - YSI	18.931	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.292	g/m3	
Total Nitrogen	TN by Calculation	0.3	g/m3-N	
Total Oxidised Nitrogen	NO3NO2 by FA	0.0096	g/m3-N	
Total Phosphorus	TP by DA	0.009	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	3.1	g/m3	

<b>Sample ID = 20251982</b>	<b>Date Collected 5/05/2025</b>	<b>Time 12:10</b>		
<b>Site 327834</b>	<b>Lake Manuwai Weir at Ironbark Road</b>			
<b>Measurement</b>	<b>Method</b>	<b>Value</b>	<b>Units</b>	
Ammoniacal Nitrogen	Ammonia by DA	0.017	g/m3-N	
Chlorophyll a	Chlorophyll by UVVIS	0.0014	g/m3	
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	63.7	us/cm	
Dissolved Oxygen	ODO	8.42	mg/L	

Dissolved Oxygen Percent Saturation	ODO %	84.8	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.004	g/m3-P	
Faecal Coliforms (presumptive)	Faecal coliforms by Membrane Filtration	360	CFU/100ml	
Iron Total	Iron (Total) by ICP-MS	0.62	g/m3	
Manganese Total	Manganese (Total) by ICP-MS	0.027	g/m3	
pH	pH (field meter)	5.97	pH	
Temperature	Temperature - YSI	15.704	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.265	g/m3	
Total Nitrogen	TN by Calculation	0.43	g/m3-N	
Total Oxidised Nitrogen	NO3NO2 by FA	0.162	g/m3-N	
Total Phosphorus	TP by DA	0.011	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	1.7	g/m3	

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