

NORTHLAND REGIONAL COUNCIL

Report for Field Sheet Number 20260480

Lake Manuwai at Surface - intake/abstraction

Report generated 25/06/26 01:15

Sample ID = 20262077	Date 27/05/2026 Collected	Time 12:15	
Site 327834	Lake Manuwai Weir at Ironbark Road		
Measurement	Method	Value	Units
Ammoniacal Nitrogen	Ammonia by DA	0.015	g/m3-N
Chlorophyll a	Chlorophyll by UVVIS	<0.0006	g/m3
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	62	us/cm
Dissolved Oxygen	ODO	8.43	mg/L
Dissolved Oxygen Percent Saturation	ODO %	83.8	% Sat
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.0023	g/m3-P
Faecal Coliforms (presumptive)	Faecal coliforms by Membrane Filtration	400	CFU/100ml
Iron Total	Iron (Total) by ICP-MS	0.47	g/m3
Magnesium Total	Magnesium (Total) by ICP-MS	1.1	g/m3
pH	pH (field meter)	6.14	pH
Temperature	Temperature - YSI	15.071	degC
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.15	g/m3
Total Nitrogen	TN by Calculation	0.25	g/m3-N
Total Oxidised Nitrogen	NO3NO2 by FA	0.095	g/m3-N
Total Phosphorus	TP by DA	0.011	g/m3-P
Total Suspended Solids	Suspended Solids by Gravimetry	1.4	g/m3

Sample ID = 20262078	Date 27/05/2026 Collected	Time 12:50	
Site 101985	Lake Manuwai at Surface intake		
Measurement	Method	Value	Units
Ammoniacal Nitrogen	Ammonia by DA	0.0081	g/m3-N
Chlorophyll a	Chlorophyll by UVVIS	0.0059	g/m3
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	48.9	us/cm
Dissolved Oxygen	ODO	8.45	mg/L
Dissolved Oxygen Percent Saturation	ODO %	87.3	% Sat
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	<0.002	g/m3-P
Faecal Coliforms (presumptive)	Faecal coliforms by Membrane Filtration	<1.6	CFU/100ml
Iron Total	Iron (Total) by ICP-MS	0.15	g/m3
Magnesium Total	Magnesium (Total) by ICP-MS	0.78	g/m3
pH	pH (field meter)	6.24	pH
Temperature	Temperature - YSI	16.947	degC

Total Kjeldahl Nitrogen	TKN by DA_TKN	0.18	g/m3
Total Nitrogen	TN by Calculation	0.18	g/m3-N
Total Oxidised Nitrogen	NO3NO2 by FA	0.0046	g/m3-N
Total Phosphorus	TP by DA	0.0063	g/m3-P
Total Suspended Solids	Suspended Solids by Gravimetry	2.6	g/m3

Sample ID = 20262079	Date 27/05/2026 Collected	Time 12:56	
Site 101986	Lake Manuwai at Bottom (13 m) intake point		
Measurement	Method	Value	Units
Ammoniacal Nitrogen	Ammonia by DA	0.011	g/m3-N
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	48.9	us/cm
Dissolved Oxygen	ODO	8.19	mg/L
Dissolved Oxygen Percent Saturation	ODO %	84	% Sat
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.0021	g/m3-P
Iron Total	Iron (Total) by ICP-MS	0.2	g/m3
Magnesium Total	Magnesium (Total) by ICP-MS	0.82	g/m3
pH	pH (field meter)	6.23	pH
Temperature	Temperature - YSI	16.596	degC
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.23	g/m3
Total Nitrogen	TN by Calculation	0.23	g/m3-N
Total Oxidised Nitrogen	NO3NO2 by FA	0.0039	g/m3-N
Total Phosphorus	TP by DA	0.0072	g/m3-P
Total Suspended Solids	Suspended Solids by Gravimetry	2.8	g/m3

Sample ID = 20262076	Date 27/05/2026 Collected	Time 11:51	
Site 327836	Lake Manuwai Weir at Onekura Road		
Measurement	Method	Value	Units
Ammoniacal Nitrogen	Ammonia by DA	0.0062	g/m3-N
Chlorophyll a	Chlorophyll by UVVIS	<0.0006	g/m3
Conductivity at 25 deg C (uS/cm)	SPC (field meter)	64.5	us/cm
Dissolved Oxygen	ODO	8.3	mg/L
Dissolved Oxygen Percent Saturation	ODO %	81	% Sat
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.0029	g/m3-P
Faecal Coliforms (presumptive)	Faecal coliforms by Membrane Filtration	110	CFU/100ml
Iron Total	Iron (Total) by ICP-MS	0.49	g/m3
Magnesium Total	Magnesium (Total) by ICP-MS	1	g/m3
pH	pH (field meter)	5.98	pH
Temperature	Temperature - YSI	14.262	degC
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.14	g/m3
Total Nitrogen	TN by Calculation	0.24	g/m3-N
Total Oxidised Nitrogen	NO3NO2 by FA	0.095	g/m3-N
Total Phosphorus	TP by DA	0.012	g/m3-P

Total Suspended Solids	Suspended Solids by Gravimetry	1.6	g/m3
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Methods used: Standard Methods for the Examination of Water and Waste Water. APHA, AWWA, WEF

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