NORTHLAND REGIONAL COUNCIL

Report for Field Sheet Number 20191452

Lake Manuwai at Surface intake

Report generated 30/12/19 02:00

Sample ID = 20196573	**Date Collected 10/12/2019**	**Time 11:57**		
Site 101985	**Lake Manuwai at Surface intake**			
Measurement	**Method**	**Value**	**Units**	
Ammoniacal Nitrogen	Ammonia by DA	<0.005	g/m3-N	
Chlorophyll a	Chlorophyll by UVVIS	0.0052	g/m3	
Conductivity at 25 deg C	SPC-1	5.62	mS/m @25 deg C	
Dissolved Oxygen	ODO	8.33	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	95.2	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.005	g/m3-P	
Faecal Coliforms (presumptive)	Faecal coliforms by Membrane Filtration	4.9	CFU/100ml	
Iron Acid Soluble	FEAS-4	0.065	g/m3	
Manganese Acid Soluble	MNAS-2	0.036	g/m3	
Nitrite/nitrate nitrogen	NO3NO2 by FA	0.0036	g/m3-N	
pH	pH (field meter)	6.46	pH	
Secchi Depth	Secchi	3.95	m	
Temperature	Temperature - YSI	22.04	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.23	g/m3	
Total Nitrogen	Total Nitrogen by Calculation	0.23	g/m3-N	
Total Phosphorus	Total Phosphorus by DA	0.005	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	2	g/m3	

Sample ID = 20196574	**Date Collected 10/12/2019**	**Time 11:55**		
Site 101986	**Lake Manuwai at Bottom (13 m) intake**			
Measurement	**Method**	**Value**	**Units**	
Ammoniacal Nitrogen	Ammonia by DA	0.012	g/m3-N	

Conductivity at 25 deg C	SPC-1	5.6	mS/m @25 deg C	
Dissolved Oxygen	ODO	7.49	mg/L	
Dissolved Oxygen Percent Saturation	ODO %	84.1	% Sat	
Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.004	g/m3-P	
Iron Acid Soluble	FEAS-4	0.13	g/m3	
Manganese Acid Soluble	MNAS-2	0.042	g/m3	
Nitrite/nitrate nitrogen	NO3NO2 by FA	0.0045	g/m3-N	
pH	pH (field meter)	6.16	pH	
Temperature	Temperature - YSI	21.03	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.29	g/m3	
Total Nitrogen	Total Nitrogen by Calculation	0.29	g/m3-N	
Total Phosphorus	Total Phosphorus by DA	0.004	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