

**Report for Field Sheet Number 20200744**

**Lake Manuwai at Surface intake**

	<b>Sample ID = 20203838</b>	<b>Date 14/07/2020 Collected</b>	<b>Time 11:30</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	<0.005	g/m3-N	
	Chlorophyll a	Chlorophyll by UVVIS	0.0042	g/m3	
	Conductivity at 25 deg C	SPC-1	5.7	mS/m	
	Dissolved Oxygen	ODO	9.55	mg/L	
	Dissolved Oxygen Percent	ODO %	90.7	% Sat	
	Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.004	g/m3-P	
	Faecal Coliforms (presumptive)	Faecal coliforms by Membrane Filtration	3.3	CFU/100m	
	Iron Acid Soluble	FEAS-4	0.025	g/m3	
	Manganese Acid Soluble	MNAS-2	0.019	g/m3	
	Nitrite/nitrate nitrogen	NO3NO2 by FA	0.055	g/m3-N	
	pH	pH (field meter)	6.84	pH	
	Secchi Depth	Secchi	4.7	m	
	Temperature	Temperature - YSI	13.05	degC	
	Total Kjeldahl Nitrogen	TKN by DA_TKN	0.32	g/m3	
	Total Nitrogen	TN by Calculation	0.37	g/m3-N	
	Total Phosphorus	TP by DA	0.004	g/m3-P	
	Total Suspended Solids	Suspended Solids by Gravimetry	2	g/m3	

	<b>Sample ID = 20203839</b>	<b>Date 14/07/2020</b>	<b>Time</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	0.007	g/m3-N	
	Conductivity at 25 deg C	SPC-1	5.71	mS/m	
	Dissolved Oxygen	ODO	9.36	mg/L	
	Dissolved Oxygen Percent	ODO %	88.5	% Sat	
	Dissolved Reactive Phosphorus	Dissolved Reactive Phosphorus by DA	0.004	g/m3-P	

Iron Acid Soluble	FEAS-4	0.027	g/m3	
Manganese Acid Soluble	MNAS-2	0.02	g/m3	
Nitrite/nitrate nitrogen	NO3NO2 by FA	0.059	g/m3-N	
pH	pH (field meter)	6.97	pH	
Temperature	Temperature - YSI	12.82	degC	
Total Kjeldahl Nitrogen	TKN by DA_TKN	0.21	g/m3	
Total Nitrogen	TN by Calculation	0.27	g/m3-N	
Total Phosphorus	TP by DA	0.004	g/m3-P	
Total Suspended Solids	Suspended Solids by Gravimetry	1.2	g/m3	

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