Description of parameters measured by Councils three Torrens Lake Meteorological Stations

Parameter	Units	Description
TIMESTAMP	TS (DD/MM/YYYY HH:SS)	Date and time stamp of instantaneous parameter measurements and end of 15 minute period.
Batt_volts	V (volts)	Voltage of the solar powered meteorological station battery at the time stamp
Modem_resets	d (unknown)	System parameter
WTemp	C (degrees centigrade)	Water temperature at the water surface at the time stamp
pH	pH (pH Units)	Measure of the acidity or alkalinity of the water column at the time stamp
E_Cond	uS/cm (micro seimens per centimetre)	Electrical Conductivity of Water at the time stamp - used to determine total dissolved solids
O2_percent	%	Measure of dissolved oxygen in the water column at the date stamp expressed in percentage of maximum dissolved oxygen for the water at that temperature.
O2_mg	mg/L (milligrams per litre)	Measure of dissolved oxygen in the water column at the date stamp expressed in milligrams per litre
Wind_Dir	A^{o} (Clockwise angle in degrees from 0^{o} North)	Wind direction above the water surface at the time stamp
Wind_Spd_min	m/s (metres per second)	Minimum recorded wind speed above the water surface over the last 15 minute period
Wind_Spd_ave	m/s (metres per second)	Average recorded wind speed above the water surface over the last 15 minute period
Wind_Spd_max	m/s (metres per second)	Maximum recorded wind speed above the water surface over the last 15 minute period
Air_Temperature	C (degrees centigrade)	Air Temperature above the water surface at the time stamp
Humidity	% (percentage of water content of air relative to	Relative Humidity of air above the water surface expressed as percentage of current water content of air above the water surface relative to maximum water content of air for the current

	maximum water content for current air temperature)	air temperature at the time stamp
Barometric_Pressure	kPA (kilo Pascals)	Barometric Pressure of air above the water surface at the time stamp
Rainfall	mm (millimetres)	Millimetres of rainfall recorded over the last 15 minute period
Rainfall_Intensity	mm/hr (millimetres per hour)	Equivalent millimetres of rainfall per hour rainfall intensity recorded over the last 15 minute period
Rainfall_Since_9am	mm (millimetres)	Accumulated millimetres of rainfall recorded since 9:00 am
TAC_temp(1)	C (degrees centigrade)	Temperature of the water column 0.1 m from the water surface at the time stamp
TAC_temp(2)	C (degrees centigrade)	Temperature of the water column 0.2 m from the water surface at the time stamp
TAC_temp(3)	C (degrees centigrade)	Temperature of the water column 0.4 m from the water surface at the time stamp
TAC_temp(4)	C (degrees centigrade)	Temperature of the water column 0.6 m from the water surface at the time stamp
TAC_temp(5)	C (degrees centigrade)	Temperature of the water column 0.8 m from the water surface at the time stamp
TAC_temp(6)	C (degrees centigrade)	Temperature of the water column 1.0 m from the water surface at the time stamp
TAC_temp(7)	C (degrees centigrade)	Temperature of the water column 1.2 m from the water surface at the time stamp
TAC_temp(8)	C (degrees centigrade)	Temperature of the water column 1.6 m from the water surface at the time stamp
TAC_temp(9)	C (degrees centigrade)	Temperature of the water column 2.0 m from the water surface at the time stamp
TAC_temp(10)	C (degrees centigrade)	Temperature of the water column 2.4 m from the water surface at the time stamp
TAC_temp(11)	C (degrees centigrade)	Temperature of the water column 2.8 m from the water surface at the time stamp
TAC_temp(12)	C (degrees centigrade)	Temperature of the water column 3.2 m from the water surface at the time stamp

TAC_temp(13)	C (degrees centigrade)	Temperature of the water column 3.6 m from the water surface at the time stamp
TAC_temp(14)	C (degrees centigrade)	Temperature of the water column 4.0 m from the water surface at the time stamp
TAC_temp(15)	C (degrees centigrade)	Temperature of the water column 4.4 m from the water surface at the time stamp
TAC_temp(16)	C (degrees centigrade)	Temperature of the water column 4.8 m from the water surface at the time stamp
TAC_errorsensors	d (unknown)	System Parameter
ORP_mV	mV (milli volts)	Oxygen Reduction Potential – tendency for the water body to lose or gain electrons when during flows into Torrens Lake (will either be oxidised by flow or will oxidise the flow water) at the time stamp
Sp_Cond	uS/cm (micro seimens per centimetre)	Electrical Conductivity of Water at the time stamp - used to determine total dissolved solids
Total Solar Radiation	W/m^2 (watts per square meter)	Measure of total solar radiation on or from the water surface at the time stamp
Direct Solar Radiation	W/m^2 (watts per square meter)	Measure of direct normal solar irradiance on the water surface at the time stamp
Reflected Solar Radiation	W/m^2 (watts per square meter)	Measure of reflected solar irradiance from the water surface at the time stamp
Solar Radiation		Not Used