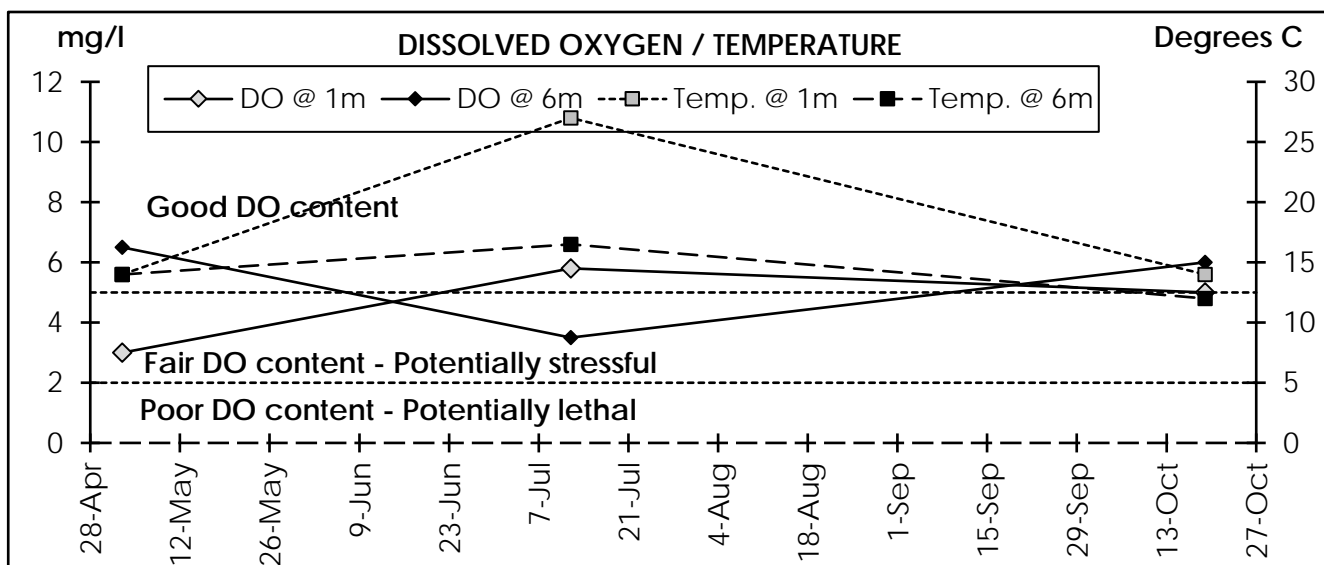
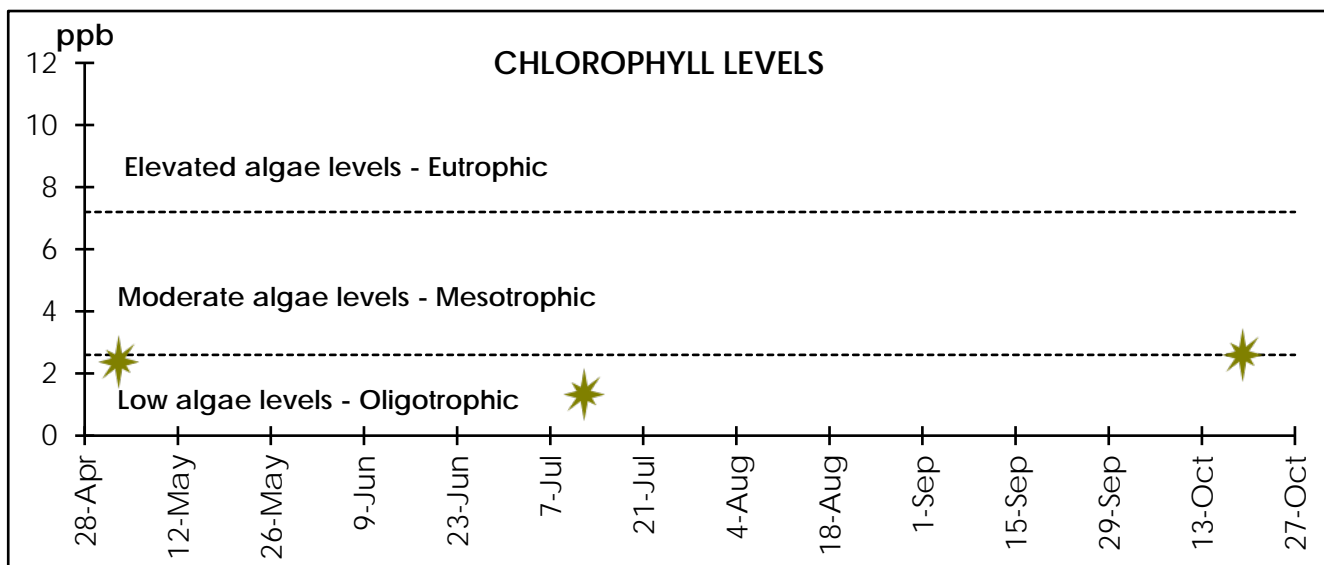
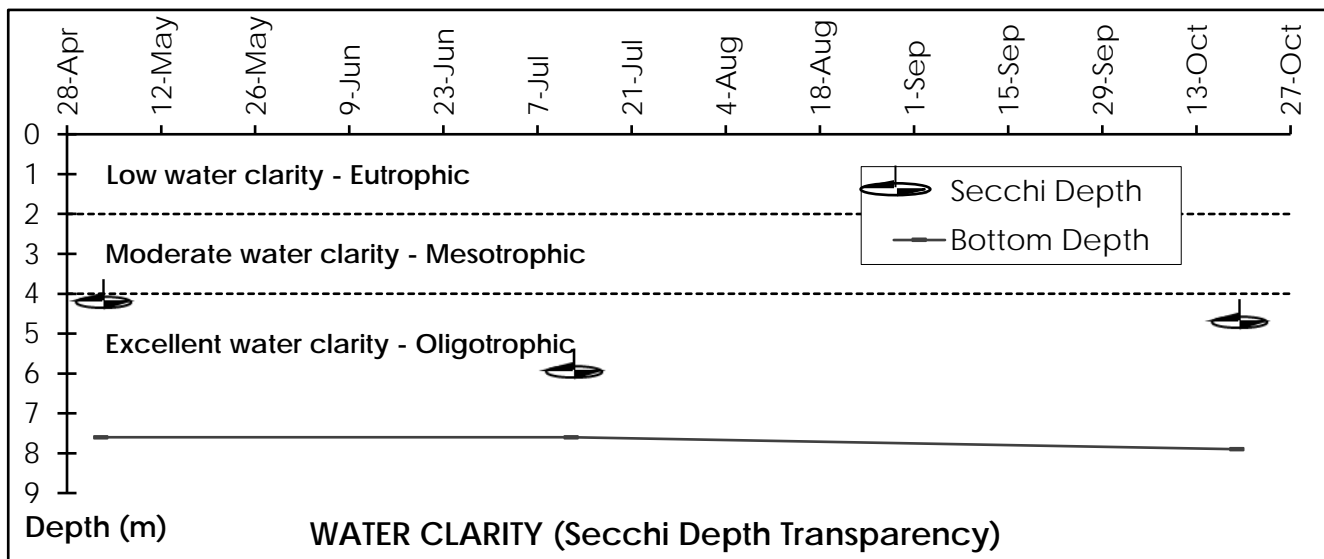


2018 WYASSUP LAKE DATA



2018 WYASSUP LAKE DATA

	MAY	JUNE	JULY	AUG	SEPT	OCT	
<i>Bottom waters with higher nutrient levels than 1 meter samples indicate internal cycling of nutrients, and potentially unstable water quality conditions.</i>							
-----Total Phosphorus (ppb) -----							Mean
Wyassup Lake @ 1m	14	-	<4	-	-	12	9
Wyassup Lake @ 6m	8	-	30	-	-	37	25
<i>Limit of Detection = 4 ppb, have that (2 ppb) used to determine the mean for <4 Low <12 ppb; Moderate 12-24 ppb; Elevated 25-67 ppb; RIDEM lake max. 25 ppb TP</i>							
-----Dissolved Phosphorus (ppb) -----							Mean
Wyassup Lake @ 1m	8	-	<4	-	-	10	7
Wyassup Lake @ 6m	<4	-	<4	-	-	21	8
<i>Limit of Detection = 4 ppb, have that (2 ppb) used to determine the mean for <4</i>							
----- Total Nitrogen (ppb) -----							Mean
Wyassup Lake @ 1m	310	-	305	-	-	445	353
Wyassup Lake @ 6m	485	-	480	-	-	740	568
<i>Low TN < 350 ppb; Moderate TN 350 - 750 ppb; Elevated TN >750 ppb</i>							
----- Nitrate-Nitrogen (ppb) -----							Mean
Wyassup Lake @ 1m	<15	-	<15	-	-	45	20
Wyassup Lake @ 6m	<15	-	<15	-	-	40	18
<i>Limit of Detection = 15 ppb, have that (7.5 ppb) used to determine the mean for <15</i>							
----- Ammonia-Nitrogen (ppb) -----							Mean
Wyassup Lake @ 1m	45	-	75	-	-	100	73
Wyassup Lake @ 6m	40	-	70	-	-	250	120
----- Chlorides (ppm) -----							Mean
Wyassup Lake @ 1m	14	-	-	-	-	8	11
Wyassup Lake @ 6m	9	-	-	-	-	13	11
<i>Chlorides measured in spring and fall to assess the impact from winter road salt use.</i>							
----- Enterococci (per 100 mLs) -----							Maximum
Wyassup Lake	1	-	27.1	-	-	4.1	27.1
<i>RIHealth Standard for Recreational Contact: Maximum 60 Enterococci per 100 mLs</i>							
----- pH -----							Minimum
Wyassup Lake @ 1m	6.8	-	6.9	-	-	6.3	6.3
Wyassup Lake @ 6m	6.7	-	6.3	-	-	7.0	6.3
<i>pH of 6 - 9 considered normal</i>							
----- Alkalinity (mg/l CaCO ₃) -----							Minimum
Wyassup Lake @ 1m	10.5	-	9.1	-	-	9.2	9.1
<i>USEPA Alkalinity Classification: Acidified <1 ppm with pH < 5.0; Critical <2 ppm; Endangered 2-5 ppm; Highly Sensitive 5-10 ppm; Sensitive 10-20 ppm; Not Sensitive >20 ppm</i>							