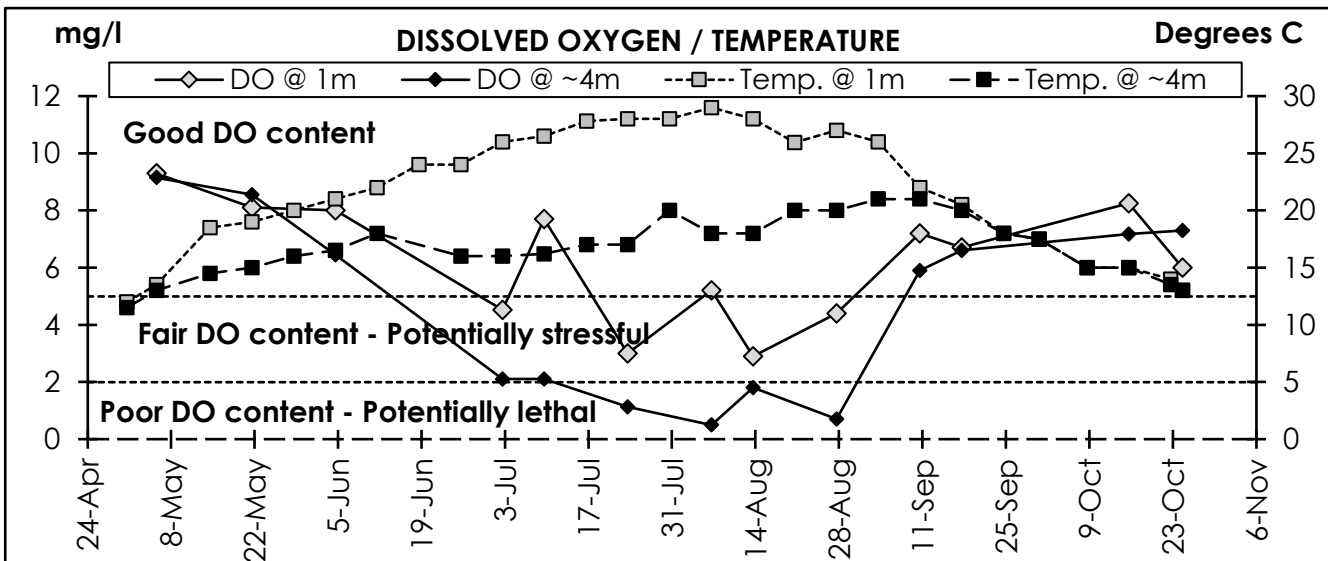
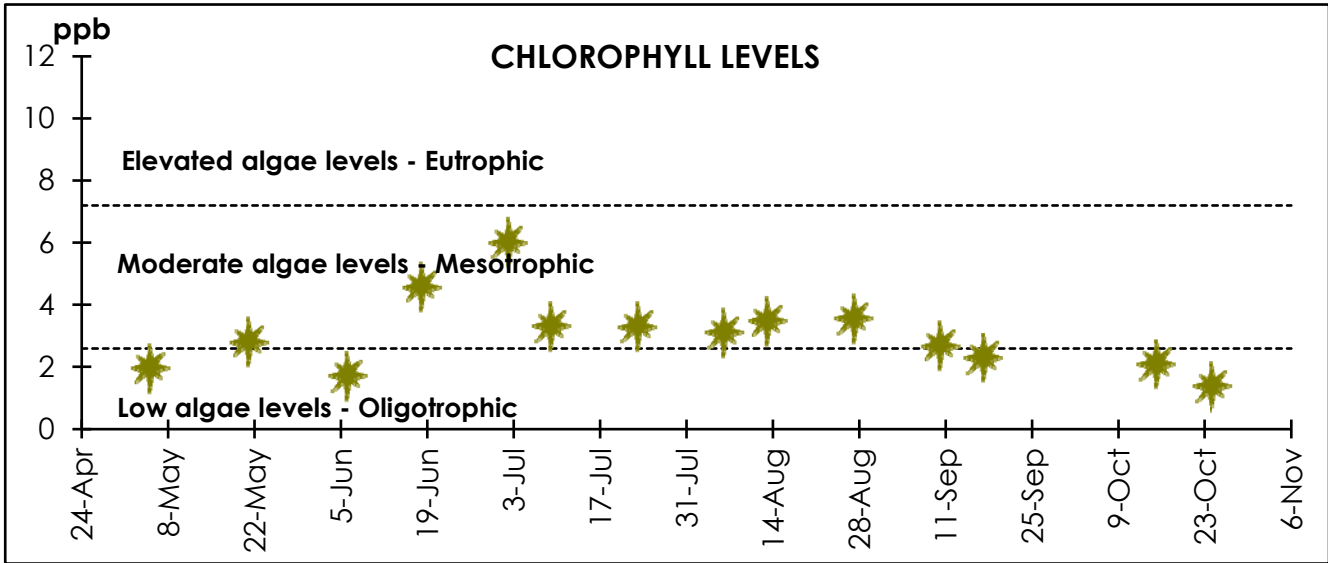
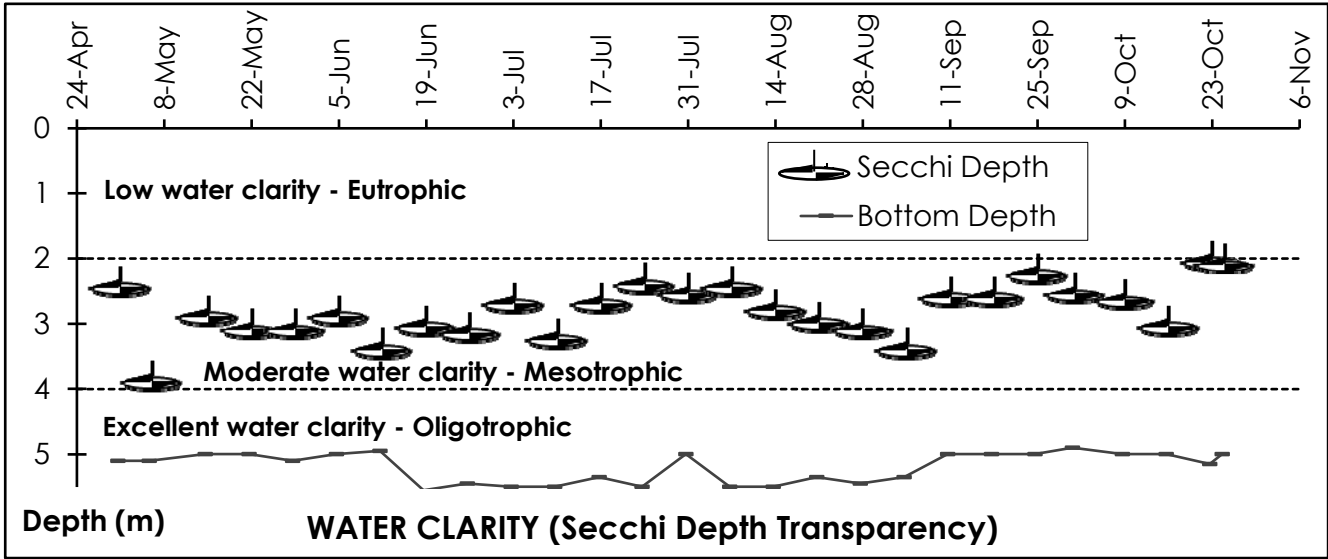


2022 BOONE LAKE DATA



2022 BOONE 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
Boone Lake @ 1m	21		-		18	12	17
Boone Lake @ ~4m	9		-		16	11	12
<i>Limit of Detection = 4 ppb; Mean determined with half that (2 ppb) for <4 Low <12 ppb; Moderate 12-24 ppb; Elevated 25-67 ppb; RIDEM lake max. 25 ppb TP</i>							
-----Dissolved Phosphorus (ppb) -----							Mean
Boone Lake @ 1m	6		<4		4	<4	4
Boone Lake @ ~4m	4		<4		4	4	4
<i>Limit of Detection = 4 ppb; Mean determined with half that (2 ppb) for <4 <10 ppb considered Good, 10-50 ppb considered Fair, and >50 ppb considered Poor</i>							
----- Total Nitrogen (ppb) -----							Mean
Boone Lake @ 1m	531		-		432	461	475
Boone Lake @ ~4m	516		-		423	441	460
<i>Low TN < 350 ppb; Moderate TN 350 - 750 ppb; Elevated TN >750 ppb</i>							
----- Nitrate-Nitrogen (ppb) -----							Mean
Boone Lake @ 1m	278		23		31	108	110
Boone Lake @ ~4m	281		32		28	98	110
----- Ammonia-Nitrogen (ppb) -----							Mean
Boone Lake @ 1m	68		40		76	121	76
Boone Lake @ ~4m	84		169		89	79	105
----- Chlorides (ppm) -----							Mean
Boone Lake @ 1m	108				95		102
Boone Lake @ ~4m	102				99		101
<i>Chlorides measured in spring and fall to assess the impact from winter road salt use.</i>							
----- Enterococci (per 100 mLs) -----							Maximum
Boone Lake	23.8		5.2		1	10.4	23.8
<i>RIHealth Standard for Recreational Contact: Maximum 60 Enterococci per 100 mLs</i>							
----- pH -----							Minimum
Boone Lake @ 1m	5.9	-	6.3	-	8.0	6.4	5.9
Boone Lake @ ~4m	6.8	-	6.6	-	6.3	7.7	6.3
<i>pH of 6 - 9 considered normal</i>							
----- Alkalinity (mg/l CaCO3) -----							Minimum
Boone Lake @ 1m	5.7	-	7.9	-	9.7	8.5	5.7
<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>							