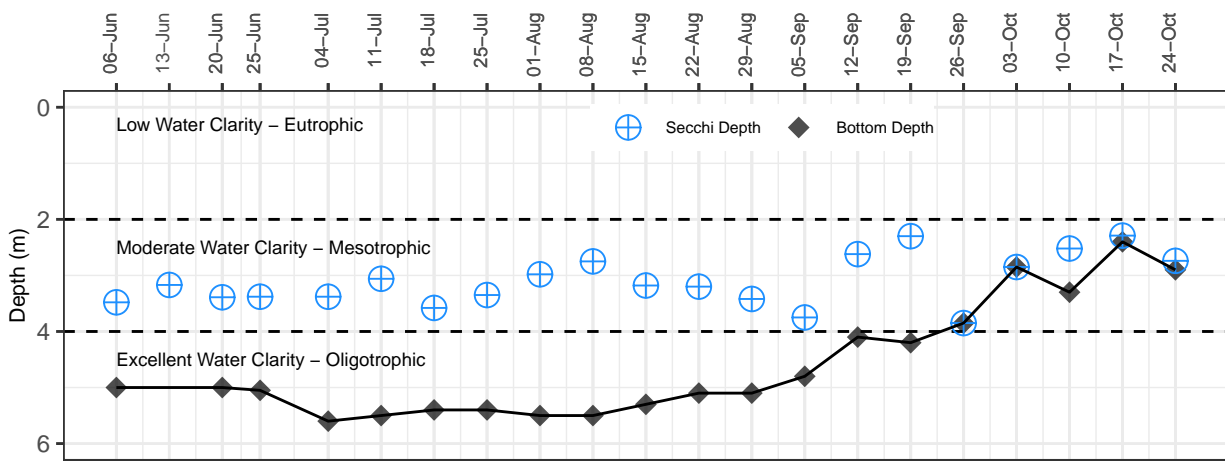
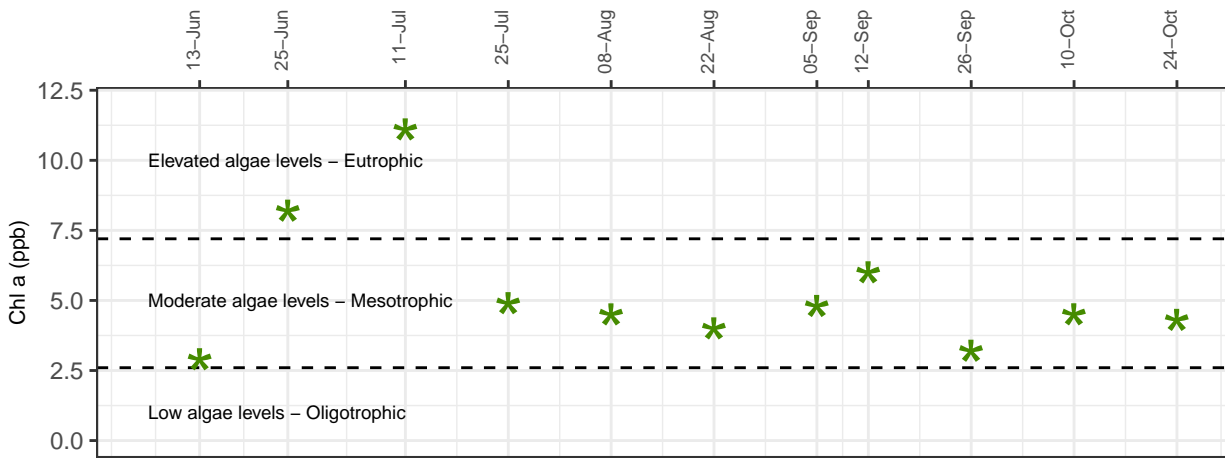


Boone Lake 2020

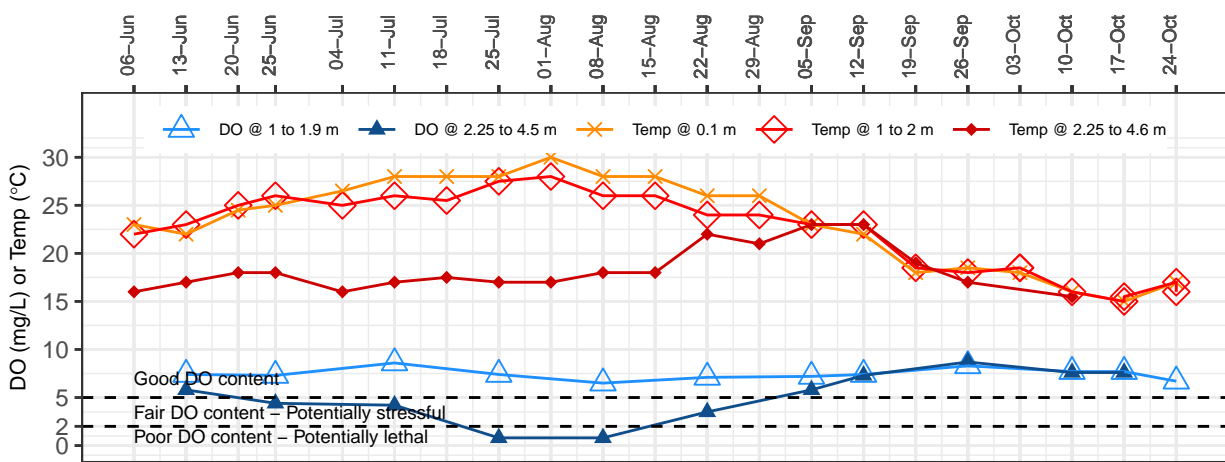
Water Clarity



Chlorophyll



Temperature/Dissolved Oxygen



2020 BOONE LAKE DATA

Station	JUN	JUL	AUG	SEP	OCT	Summary
<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 @ 1 m	18	7	-	10	12	12
Boone Lake @ ≥ 1.9 m	11	13	-	11	11	12
<i>Low < 12 ppb; Moderate 12 to 24 ppb; Elevated 25 to 67 ppb; RIDEM lake max 25 ppb TP</i>						
----- Dissolved Phosphorus (ppb) -----						Mean
Boone Lake @ 1 m	4	4	-	4	5	5
Boone Lake @ ≥ 1.9 m	5	4	-	5	4	4
----- Total Nitrogen (ppb) -----						Mean
Boone Lake @ 1 m	488	361	-	290	428	419
Boone Lake @ ≥ 1.9 m	467	391	-	323	496	392
<i>Low TN < 350 ppb; Moderate TN 350 to 750 ppb; Elevated TN > 750 ppb</i>						
----- Nitrate-Nitrogen (ppb) -----						Mean
Boone Lake @ 1 m	266	49	-	25	60	108
Boone Lake @ ≥ 1.9 m	236	69	-	58	68	100
----- Ammonia-Nitrogen (ppb) -----						Mean
Boone Lake @ 1 m	89	134	-	22	77	54
Boone Lake @ ≥ 1.9 m	49	52	-	32	83	81
----- Chlorides (ppm) -----						Mean
Boone Lake @ 1 m	80	-	-	-	86	78.5
Boone Lake @ ≥ 1.9 m	73	-	-	-	84	83.0
<i>Chlorides measured in spring and fall to assess the impact from winter road salt use</i>						
----- Enterococci (per 100 mLs) -----						Maximum
Boone Lake	11.8	23.7	-	5.3	5.3	23.7
<i>RI Health Standard for Recreational Contact: Maximum 60 Enterococci per 100 mLs</i>						

2020 BOONE LAKE DATA

Station	JUN	JUL	AUG	SEP	OCT	Summary
----- pH -----						Minimum
Boone Lake @ 1 m	7.4	7	-	6.8	5.9	6.2
Boone Lake @ ≥ 1.9 m	6.2	6.2	-	6.7	7.2	5.9
<i>pH of 6 to 9 considered normal</i>						
----- Alkalinity (mg/l CaCO3) -----						Minimum
Boone Lake @ 1 m	8.4	16.1	-	11.2	7.5	7.5
<i>USEPA Alkalinity Classification: Acidified < 1 ppm with pH < 5.0; Critical < 2 ppm; Endangered 2 to 5 ppm; Highly Sensitive 5 to 10 ppm; Sensitive 10 to 20 ppm; Not Sensitive > 20 ppm</i>						

