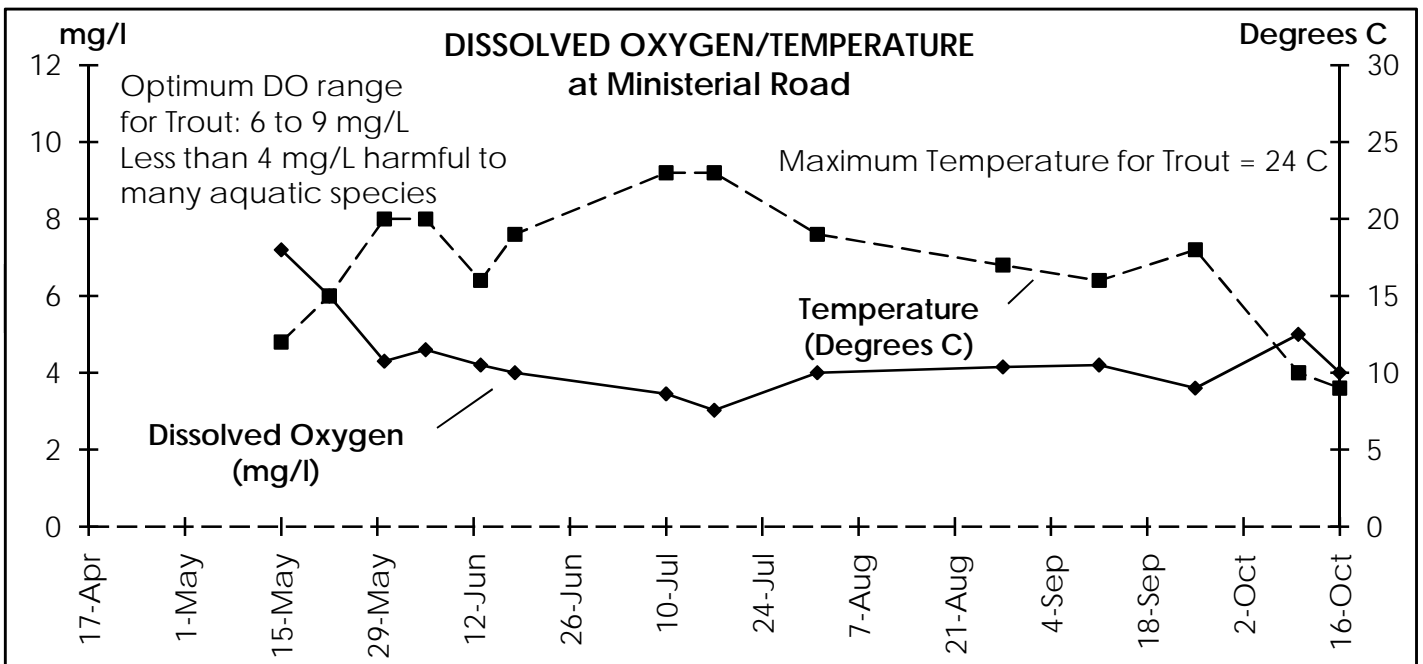
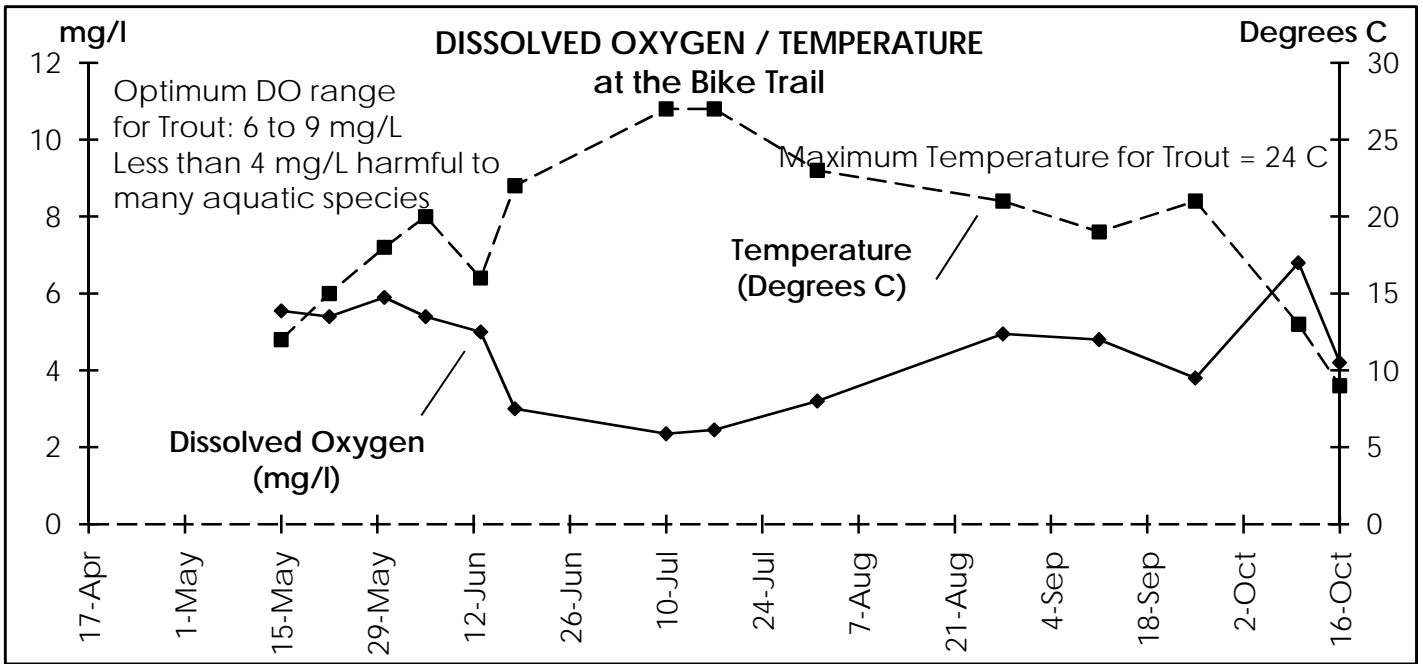


2010 White Horn Brook



2010 WHITE HORN BROOK

WHITE HORN BROOK **MAY** **JUNE** **JULY** **AUG** **SEPT** **OCT**

-----**Total Phosphorus (ppb)**-----

Mean

@ BIKE TRAIL	34	67	82	-	52	38	55
@ MINISTERIAL ROAD	25	60	63	-	50	32	46

CEQ recommends maximum 100 ppb TP instream

-----**Dissolved Phosphorus (ppb)**-----

Mean

@ BIKE TRAIL	12	23	33	-	8	8	17
@ MINISTERIAL ROAD	13	27	28	-	18	8	19

-----**Total Nitrogen (ppb)**-----

Rounded to 10 ppb

Mean

@ BIKE TRAIL	1280	1420	1210	-	580	800	1058
@ MINISTERIAL ROAD	1100	1060	940	-	810	690	920

No RI numeric standard exists, but for comparison, CT lake classification:

Eutrophic: 600-1000 ug/l spring composit and summer surface

-----**Nitrate-Nitrogen (ppb)**-----

Rounded to 10 ppb

Mean

@ BIKE TRAIL	860	920	480	-	ND	40	575
@ MINISTERIAL ROAD	870	600	390	-	280	20	432

ND = No Detect Limit of Detection = 10 ppb

Mean determined with half the limit of detection (5 ppb) in place of ND

-----**Ammonia-Nitrogen (ppb)**-----

Mean

Rounded to 10 ppb

@ BIKE TRAIL	90	160	210	-	50	40	110
@ MINISTERIAL ROAD	70	100	110	-	120	30	86

-----**Chlorides (ppm)**-----

Mean

@ BIKE TRAIL	56	-	-	-	-	27	42
@ MINISTERIAL ROAD	44	-	-	-	-	27	36

-----**Enterococci Most Probable Number per 100 mLs**----- **Geomean**

@ BIKE TRAIL	579.4	138.8	1632.8	-	488.8	521.7	507
@ MINISTERIAL ROAD	178.5	129.8	1962.8	-	2567	691.7	605

RI DEM Enterococci Standards: Non-designated Bathing Beach (Fresh) Waters

Geometric Mean Density - Not to exceed 54 enterococci per 100 mL

-----**pH**-----

Minimum

@ BIKE TRAIL	6.4	6.5	6.5	-	6.5	5.8	6.3
@ MINISTERIAL ROAD	6.4	6.5	6.6	-	6.4	5.8	6.4

pH of 6 - 9 considered normal