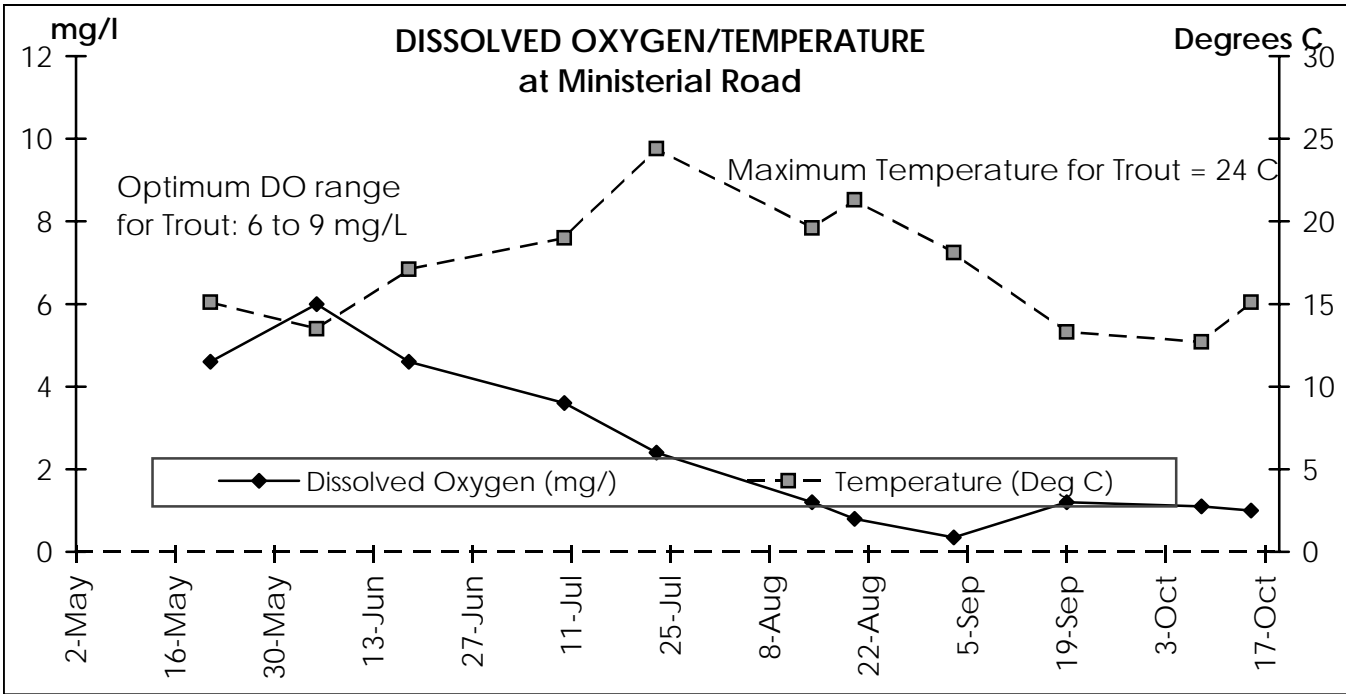
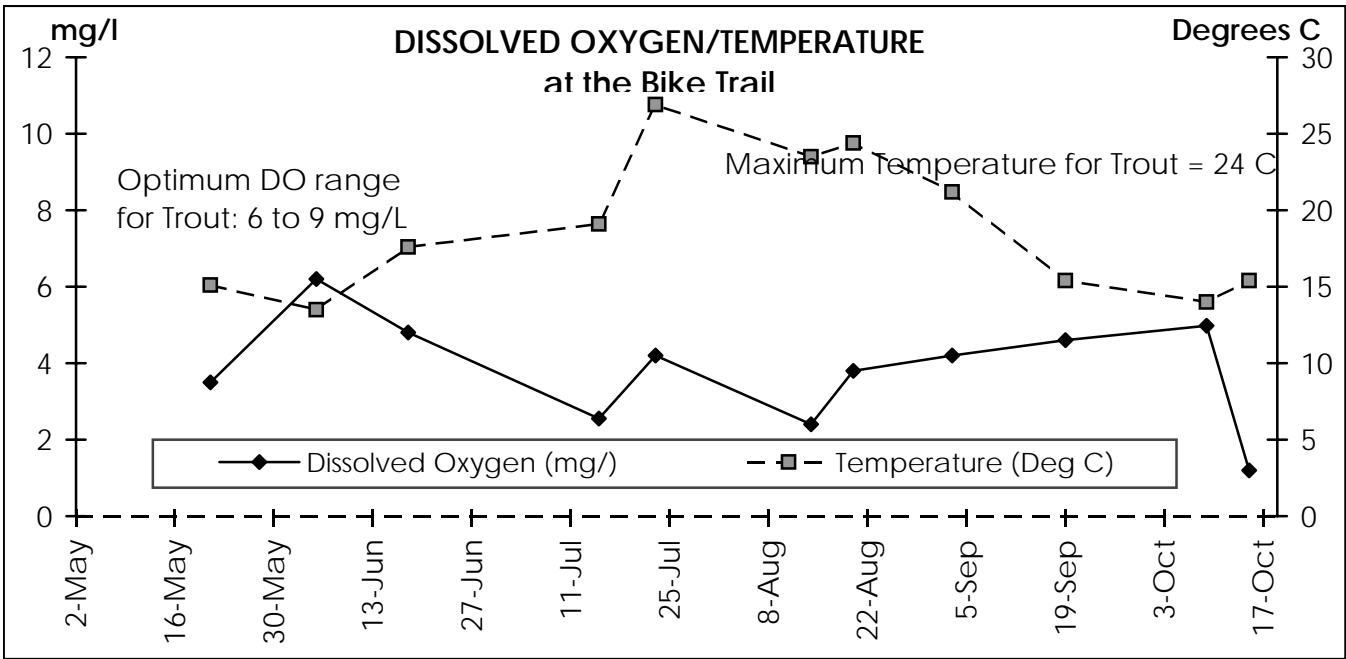


2011 White Horn Brook (2 Sites)



2011 White Horn Brook Data

White Horn Brook	MAY	JUNE	JULY	AUG	SEPT	OCT	
-----Total Phosphorus (ppb) -----							Mean
@ Bike Trail	31	43	59	55	22	42	42
@ Ministerial Rd	28	39	56	72	41	32	45
<i>CEQ recommends maximum 100 ppb TP instream</i>							
-----Dissolved Phosphorus (ppb) -----							Mean
@ Bike Trail	5	17	12	20	10	9	12
@ Ministerial Rd	14	17	19	41	19	14	21
<i>Limit of Detection = 4 ppb</i>							
----- Total Nitrogen (ppb) -----							Mean
Rounded to 5 ppb							
@ Bike Trail	1080	990	860	900	610	600	840
@ Ministerial Rd	930	1120	830	1200	720	720	920
<i>No RI numeric standard exists, but for comparison, US EPA recommended maximum total nitrogen levels for northeast streams = 710 ppb</i>							
----- Nitrate-Nitrogen (ppb) -----							Mean
Rounded to 5 ppb							
@ Bike Trail	530	405	235	245	<10	70	248
@ Ministerial Rd	370	465	330	95	155	25	240
----- Ammonia-Nitrogen (ppb) -----							Mean
Rounded to 5 ppb							
@ Bike Trail	60	155	30	85	20	25	63
@ Ministerial Rd	45	70	90	55	30	25	53
<i>ND = No Detect Limit of Detection = 30 ppb</i>							
<i>Mean determined with half the limit of detection (15 ppb) in place of ND</i>							
----- Chlorides (ppm) -----							Mean
@ Bike Trail	38	-	-	-	-	35	37
@ Ministerial Rd	32	-	-	-	-	30	31

Chlorides are measured in the spring and the fall in order to assess the impact from road salt use in the winter. We would expect chloride levels to be highest in spring, falling to "background" or "normal" levels by fall.

2011 White Horn Brook Data

	----- Enterococci (per 100 mLs) -----						Maximum
@ Bike Trail	202	1732.9	70.8	55.8	16.4	246.8	1732.9
@ Ministerial Rd	71.8	626	39.8	207.8	37.6	239.6	626.0

RIHealth Standard for Recreational Contact: Maximum 61 Enterococci per 100 mLs

	----- pH -----						Minimum
@ Bike Trail	6.3	6.8	6.7	6.9	7.2	5.8	5.8
@ Ministerial Rd	6.3	6.6	6.5	6.1	6.7	5.8	5.8

pH of 6 - 9 considered normal