

Comparative Study of Kosciusko County Lake Water Quality

Supplemental Report for Palestine Lake

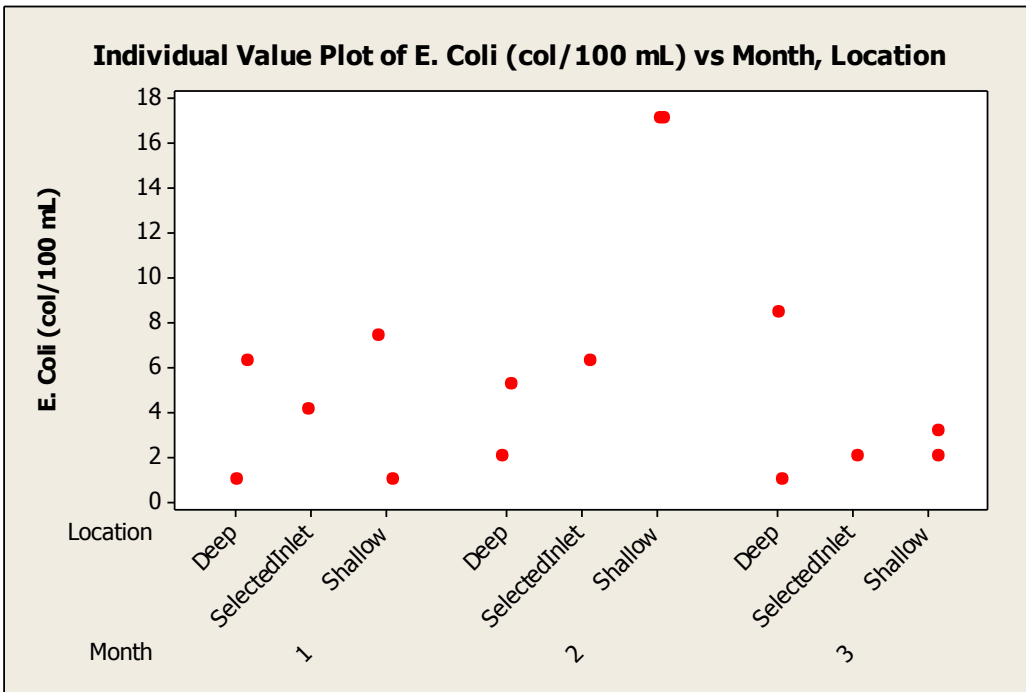
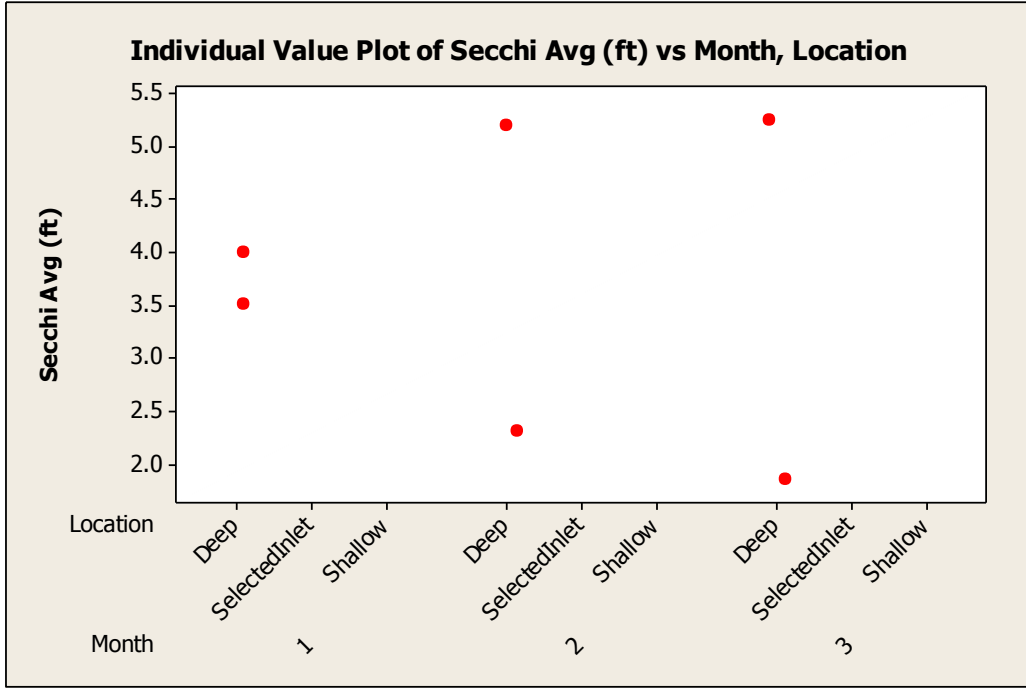
This report is intended to supplement the *Comparative Study of Kosciusko County Lake Water Quality* report. In particular, maps of sampling locations, graphical presentations of individual water quality measurements, and raw data are given. Average measurements and comparisons can be found in the full *Comparative Study* report.

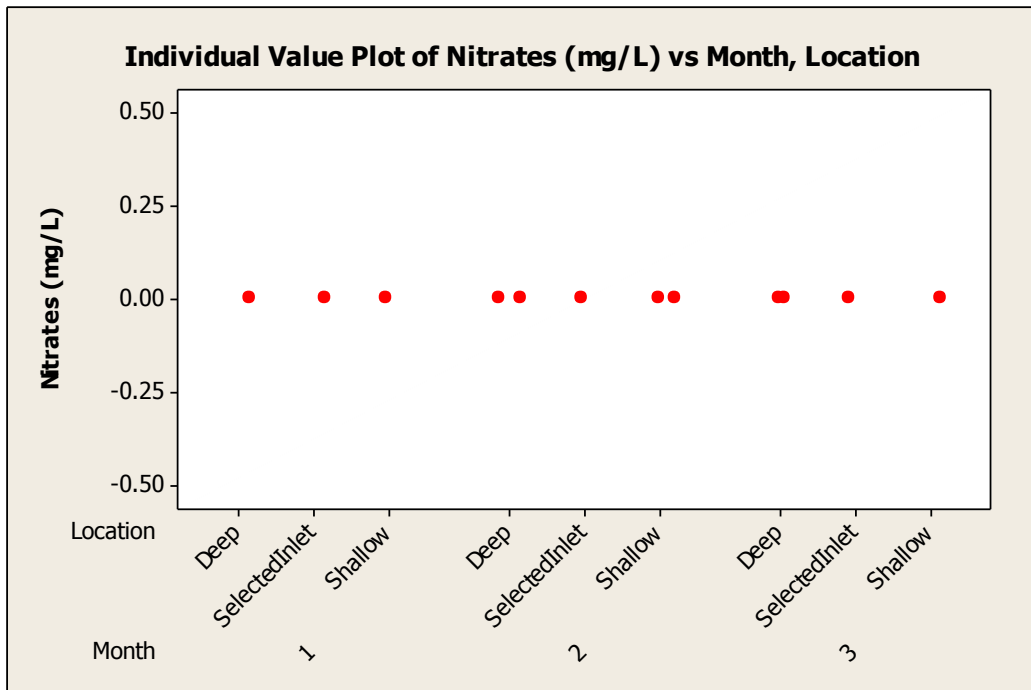
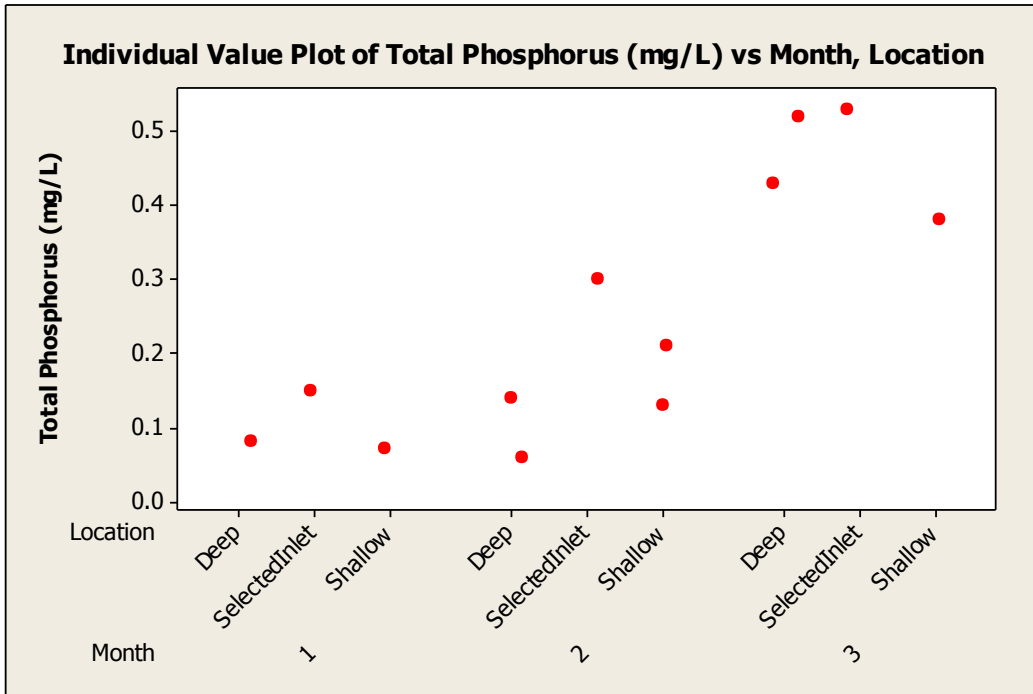
Raw data for Palestine Lake can be found at the end of this report.

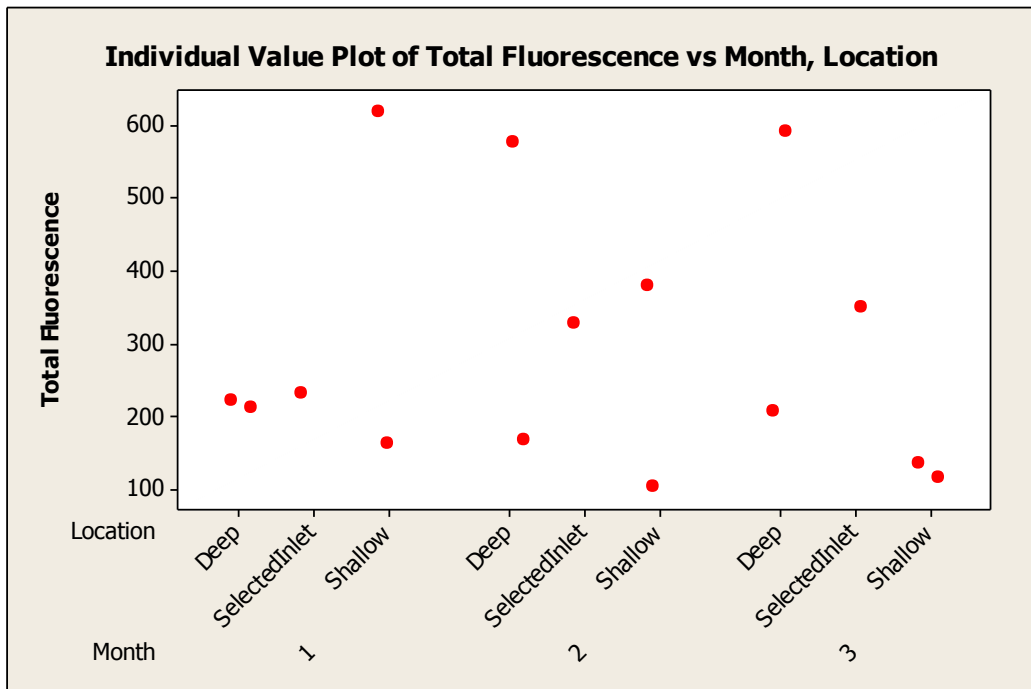
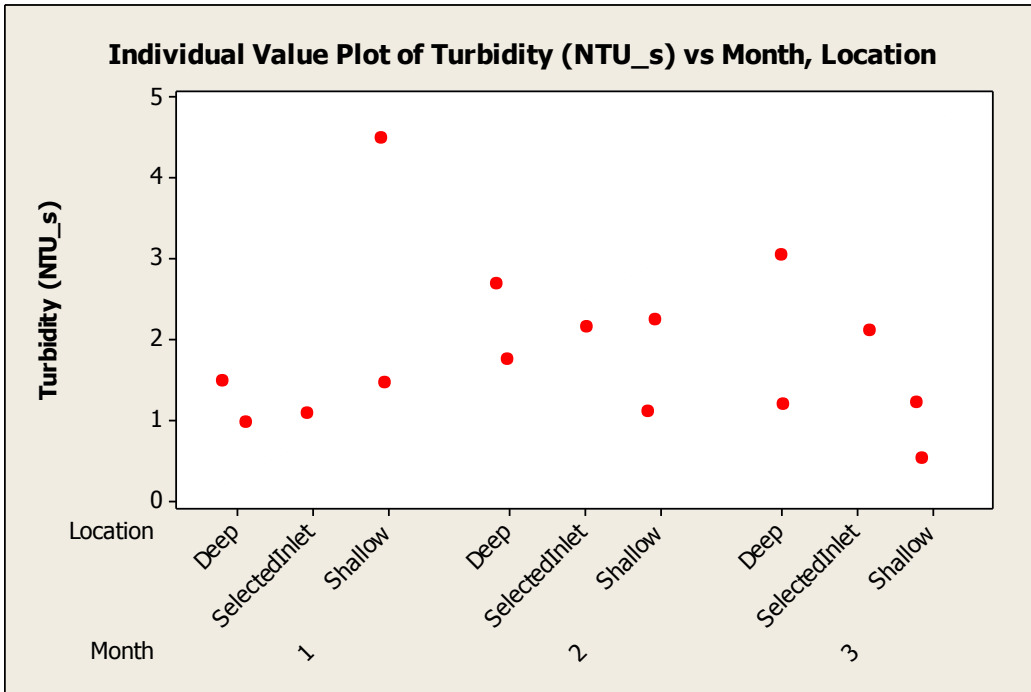
Sampling Locations on Palestine Lake

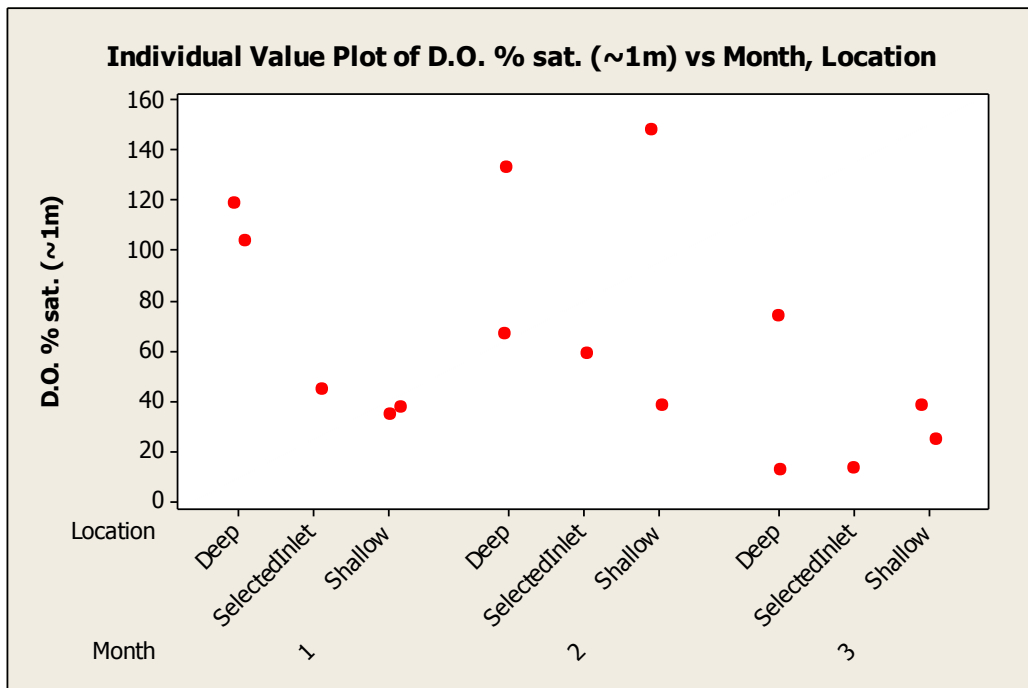
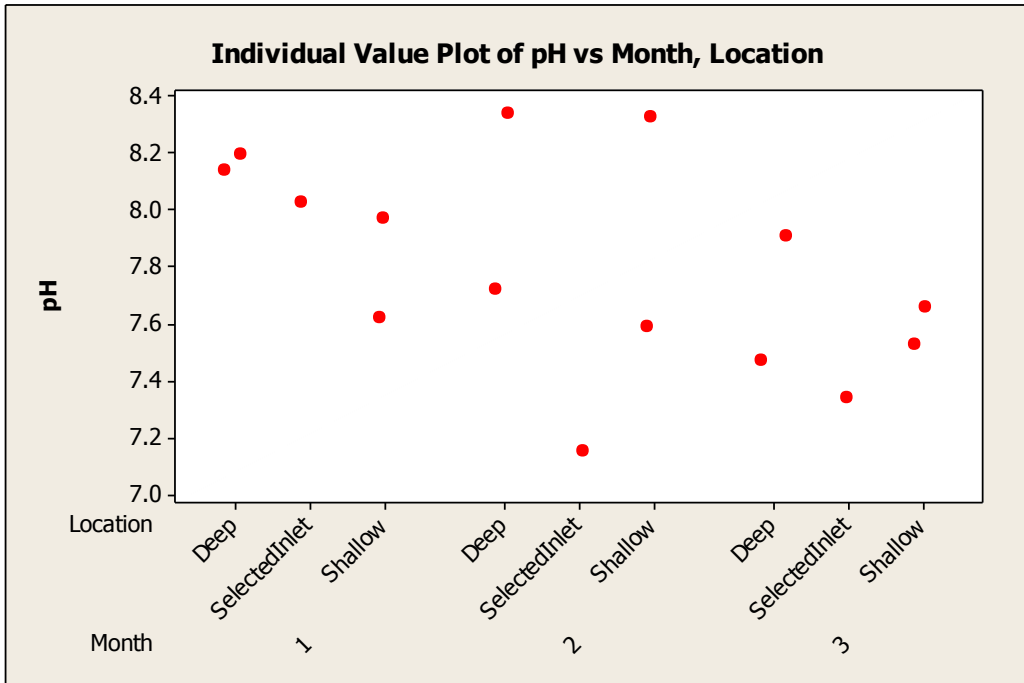


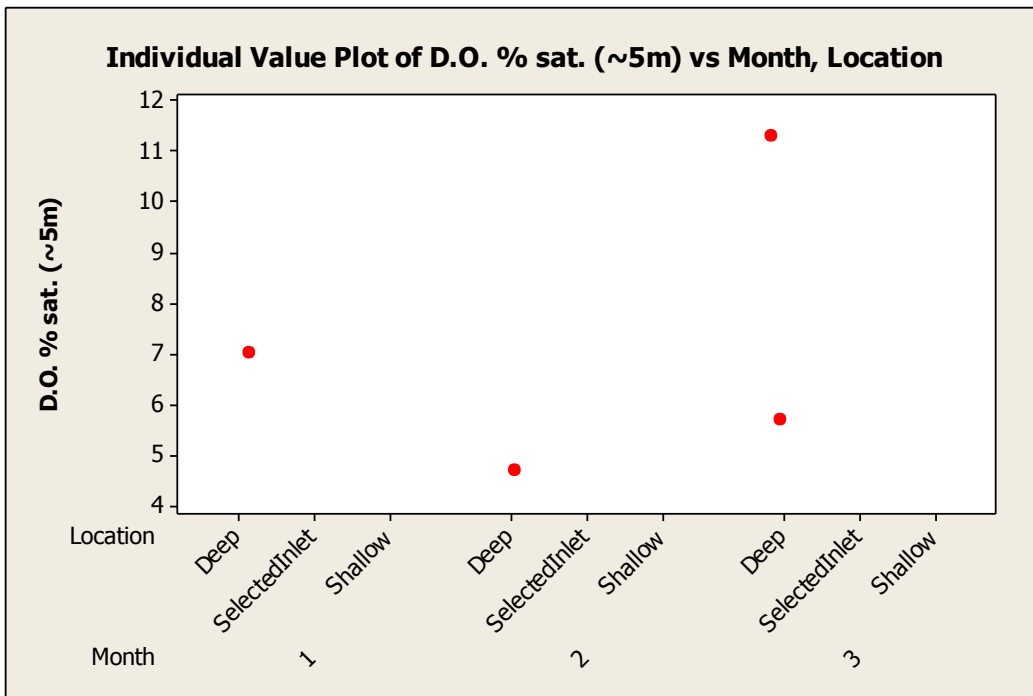
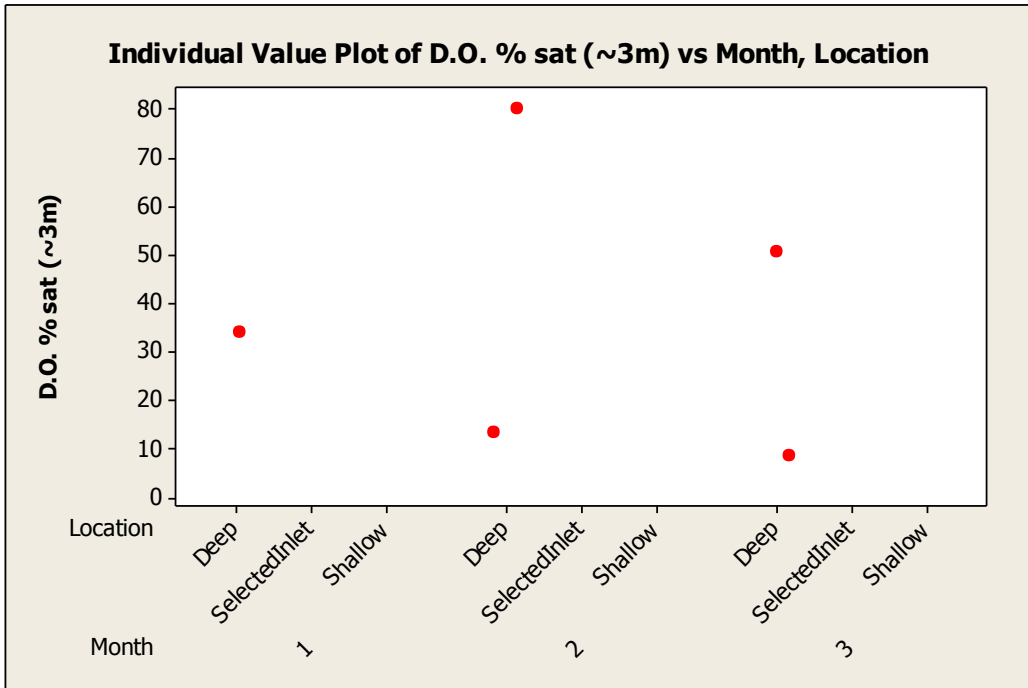
Graphical Presentation of Individual Water Quality Measurements for Palestine Lake











Raw Data for Palestine Lake

Site	GPS Location	Date	Time	Time (hr)	Current Weather	Past Weather	E. Coli (col/100 mL)	Total Phosphorus (mg/L)
04-1-1	N41 10.402 W85 56.411	6/26/2007	11:47	11.7833	clear/sunny	showers	1	0.08
04-1-2	N41 10.345 W85 56.522	6/26/2007	12:02	12.0333	clear/sunny	showers	6.3	
04-1-3	N41 10.241 W85 56.301	6/26/2007	12:12	12.2	clear/sunny	showers	7.4	0.07
04-1-4	N41 10.685 W85 56.008	6/26/2007	12:32	12.5333	clear/sunny	showers	1	
04-1-5	N41 10.540 W85 55.985	6/26/2007	12:40	12.6667	clear/sunny	showers	4.1	0.15
04-2-1	N41 10.436 W85 56.480	7/18/2007	16:49	16.8167	clear/sunny	showers	2	0.06
04-2-2	N41 10.699 W85 56.127	7/18/2007	17:02	17.0333	clear/sunny	showers	5.2	0.14
04-2-3	N41 10.731 W85 56.749	7/18/2007	16:42	16.7	clear/sunny	showers	17.1	0.21
04-2-4	N41 10.758 W85 56.161	7/18/2007	16:59	16.9833	clear/sunny	showers	17.1	0.13
04-2-5	N41 10.424 W85 55.851	7/18/2007	17:18	17.3	clear/sunny	showers	6.3	0.3
04-3-1	N41 10.380 W85 56.482	8/6/2007	9:31	9.5167	overcast	storm	1	0.52
04-3-2	N41 10.670 W85 56.121	8/6/2007	9:50	9.8333	overcast	storm	8.4	0.43
04-3-3	N41 10.626 W85 56.658	8/6/2007	13:07	13.1167	overcast	storm	2	0.38
04-3-4	N41 10.412 W85 56.283	8/6/2007	9:40	9.6667	overcast	storm	3.1	
04-3-5	N41 10.556 W85 56.029	8/6/2007	9:58	9.9667	overcast	storm	2	0.53

Site	Nitrates (mg/L)	Turbidity (NTU_s)	Total Flourescence	pH	Depth (m)	D.O. % sat. (~1m)	D.O. % sat (~3m)	D.O. % sat. (~5m)
04-1-1	<0.1	0.974	220.9	8.2	2.2	118.7		
04-1-2		1.492	213.2	8.14	6.3	104	34.1	7
04-1-3	<0.1	1.467	163	7.62	1	34.8		
04-1-4		4.51	617.1	7.97	1	37.5		
04-1-5	<0.1	1.077	231.6	8.03	1	44.9		
04-2-1	<0.1	1.747	166.9	8.34	4.7	133.3	80.2	
04-2-2	<0.1	2.689	575.5	7.72	5.6	67	13.3	4.7
04-2-3	<0.1	1.108	105.1	8.33	0.7	148.5		
04-2-4	<0.1	2.248	379.1	7.59	0.8	38.2		
04-2-5	<0.1	2.162	327.7	7.15	0.8	58.6		
04-3-1	<0.1	1.2	207.3	7.91	6.6	74.1	50.7	11.3
04-3-2	<0.1	3.042	592	7.47	5.2	12.5	8.4	5.7
04-3-3	<0.1	0.531	116.2	7.66	1.3	38.2		
04-3-4		1.223	137	7.53	0.9	24.8		
04-3-5	<0.1	2.099	348.9	7.34	1.3	13.1		

Site	Temp. C (~1m)	Temp. C (~3m)	Temp. C (~5m)	Secchi down (ft)	Secchi up (ft)	Secchi Avg (ft)	Secchi hit	Air Temp. C
04-1-1	25.7			4.1	3.9	4		37.1
04-1-2	25.1	23	17.4	3.7	3.3	3.5		32.7
04-1-3	25.1						X	30.2
04-1-4	25.5						X	32
04-1-5	23.9						X	32
04-2-1	26	25		5.3	5.1	5.2		38.3
04-2-2	25	24	11.3	2.4	2.2	2.3		
04-2-3	26.2						x	39.4
04-2-4	25.7						x	38.1
04-2-5	25.2							
04-3-1	26.5	26.2	23.7	5.3	5.2	5.25		26.1
04-3-2	25.6	22.7	13.8	1.9	1.8	1.85		28
04-3-3	25.8						x	25.4
04-3-4	26.4			3.1	3.1	3.1		26.8
04-3-5	25.3			2.4	2.2	2.3		28.2