

Verso Paper/NewPage Corporation
2006 Gulf Island Pond Water Quality Study
Dissolved Oxygen and Temperature Profiles

Week 8 AM: 07/25/2006

River Flow (Jay, Maine): 3,189 cfs

Weather: Sunny, slight breeze

Air Temperature: 65 deg. F (18 deg. C)

Comments: Pond relatively calm. Slight green tint in top meter of water column at all sites. Algae p
 Algae density greatly reduced from previous week.

AM Meter Verification: Before Sampling

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated	Model
YSI 85	Primary	5:20	7.3	22.4	Y	YSI 85
YSI 55	Comparison	5:20	7.6	22.4	Y	YSI 55

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower
	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)
0	7.3	22.4	6.5	23.7	6.2	24.7	5.6
1			6.3	23.7	6.0	24.7	5.6
2			6.4	23.7	5.8	24.5	5.5
3			6.2	23.7	6.2	24.4	5.4
4			6.3	23.7	6.4	24.3	5.4
5			6.3	23.7	6.5	24.3	5.5
6			6.2	23.7	6.7	24.3	5.8
7			6.3	23.6	6.6	24.3	6.0
8			6.2	23.6	6.6	24.3	6.0
9			6.2	23.6	3.5	24.3	6.2
10			6.2	23.6			6.2
11			5.0	23.6			6.3
12							6.3
13							6.3
14							6.4
15							6.4
16							6.3
17							5.5
18							
19							
20							
21							
22							
23							
24							
25							

Verso Paper/NewPage Corporation
2006 Gulf Island Pond Water Quality Study
Dissolved Oxygen and Temperature Profiles

Week 8 PM: 07/25/2006

River Flow (Jay, Maine): 3,189 cfs

Weather: Sunny, windy

Air Temperature: 85 deg. F (29 deg. C)

Comments: Pond choppy due to wind. Profiling difficult due to wind-associated drift. Slight green Algae density greatly reduced from previous week.

PM Meter Verification: Before Sampling

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	10:30	7.1	23.9	Y
YSI 55	Comparison	10:30	7.3	23.8	Y

Model
YSI 85
YSI 55

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower
	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)
0	7.7	23.4	7.1	25.0	7.2	25.8	6.5
1			7.2	24.8	7.3	25.7	6.2
2			7.3	24.8	7.3	25.7	6.3
3			7.2	24.7	7.4	25.5	6.4
4			7.2	24.7	7.5	25.2	6.5
5			7.2	24.6	7.5	25.0	6.5
6			7.1	24.5	7.4	24.9	6.6
7			6.9	24.3	7.5	24.9	6.7
8			6.8	24.2	7.5	24.5	6.7
9			6.8	24.2	7.5	24.8	6.6
10			6.8	24.2	7.6	24.4	6.5
11			6.8	24.2			6.6
12							6.9
13							6.8
14							6.8
15							6.8
16							6.8
17							6.8
18							6.8
19							6.8
20							6.8
21							6.8
22							6.8

23
24
25

articles at very low density in column at all sites except Turner Bridg

AM Meter Verification (After Sampling)

Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
Primary	8:25	7.6	23.5	Y
Comparison	8:25	7.7	23.4	Y

Narrows	GIP 4		Deep Hole	
	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)
25.6	5.2	25.8	5.4	26.0
25.7	5.0	25.9	4.8	26.1
25.7	5.0	25.9	4.9	26.1
25.7	4.9	26.0	5.0	26.1
25.7	4.7	25.9	4.6	26.0
25.6	4.8	25.8	4.7	25.9
25.3	4.7	25.8	4.8	25.8
25.2	5.1	25.7	4.6	25.7
25.0	5.2	25.5	4.6	25.6
24.9	5.2	25.5	4.5	25.6
24.9	5.3	25.2	4.7	25.5
24.8	5.4	25.1	5.2	25.5
24.8	5.4	24.9	5.2	25.4
24.7	5.4	24.8	5.4	25.4
24.7	5.4	24.8	5.6	25.3
24.7	5.3	24.8	5.6	25.3
24.6	4.9	24.7	5.5	25.3
24.6	0.3	24.7	5.5	25.2
			5.3	25.0
			5.2	24.9
			3.4	24.2
			0.3	21.0
			0.1	20.2
			0.1	19.9
			0.1	19.5
			0.1	19.2

tint in top meter of water column at all sites. Algae particles at very low density in column at all sites.

PM Meter Verification: After Sampling

Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
Primary	17:00	6.5	27.3	Y
Comparison	17:00	6.5	27.2	Y

Narrows	GIP 4		Dup.- GIP 4		Deep Hole	
	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)
26.9	6.2	26.5	6.2	26.4	6.1	26.7
26.7	6.1	26.5	6.2	26.4	6.2	26.7
26.6	6.2	26.5	6.2	26.5	6.0	26.6
26.3	6.1	26.5	6.2	26.4	5.9	26.3
26.2	6.1	26.5	6.2	26.3	5.7	26.1
26.0	6.0	26.5	6.2	26.2	5.7	26.0
25.8	6.0	26.4	6.2	26.3	5.4	25.8
25.7	5.9	26.2	6.2	26.1	5.4	25.7
26.0	5.6	25.9	6.1	26.2	5.6	25.5
25.9	5.4	25.6	6.4	25.8	5.6	25.5
25.9	5.3	25.2	6.2	25.8	5.8	25.5
25.8	5.4	25.1	6.3	25.9	5.6	25.5
25.9	5.4	25.4	6.1	25.8	5.8	25.4
25.3	5.5	25.0	5.9	25.6	6.0	25.4
25.8	3.5	25.0	5.5	25.3	5.9	25.4
25.5	3.2	24.9	5.5	25.2	6.0	25.4
25.8	4.6	24.8	0.5	24.7	6.1	25.4
25.6	0.1	24.6	0.1	24.6	6.1	25.1
					6.2	25.1
					6.1	25.0
					5.9	24.8
					1.9	22.7
					0.1	20.2

0.1	19.8
0.1	19.5
0.1	19.3

sites except Turner Bridg