

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

Week 2 AM: 06/14/2006

River Flow (Jay, Maine): 15,708 cfs

Weather: Sunny early, P. cloudy late AM

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

Comments: Pond calm, although current running swift due to recent heavy rains. No sign of algae at any location

*Note: Suspect data; possible meter malfunction

AM Meter Verification: Before Sampling

Model	Use	DO(mg/L)	Temp. (°C)	Calibrated
YSI 6920	Primary	10.3	16.0	Y
YSI 55	Comparison	10.1	16.2	Y

AM Meter Verification: After Sampling

Model	Use	DO(mg/L)	Temp. (°C)	Calibrated
YSI 6920	Primary	10.2	18.1	Y
YSI 55	Comparison	9.9	18.2	Y

Depth (m)	Twin Bridges		Turner Bridge*		Upper Narrows*		Lower Narrows*		GIP 4*		Deep Hole*	
	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)
0	10.2	16.0	15.0	16.2	16.0	14.7	14.6	16.0	14.5	16.2	14.5	16.5
1			14.8	16.2	16.0	14.7	14.6	16.0	14.6	16.1	14.6	16.0
2			14.7	16.1	16.0	14.7	14.6	16.0	14.6	15.9	14.6	15.8
3			14.6	16.2	16.0	14.6	14.6	16.0	14.5	15.9	14.5	15.8
4			14.6	16.2	16.0	14.6	14.6	16.0	14.5	15.9	14.5	15.7
5			14.5	16.2	16.0	14.6	14.5	16.0	14.5	15.9	14.5	15.7
6			14.5	16.2	16.0	14.6	14.5	16.0	14.5	15.9	14.5	15.7
7			14.5	16.2	16.0	14.5	14.5	16.0	14.5	15.9	14.5	15.7
8			14.5	16.2	16.0	14.5	14.4	16.0	14.5	15.8	14.5	15.7
9			14.5	16.2	16.0	14.5	14.5	16.0	14.5	15.6	14.5	15.7
10			14.5	16.2	16.0	14.4	14.4	15.9	14.5	15.7	14.5	15.7
11			14.5	16.1			14.4	15.9	14.5	15.6	14.5	15.7
12							14.4	15.9	14.5	15.6	14.4	15.6
13							14.4	15.9	14.5	15.6	14.4	15.7
14							14.4	15.9	14.5	15.6	14.4	15.7
15							14.4	15.9	14.5	15.6	14.4	15.6
16							14.4	15.9	14.5	15.6	14.4	15.6
17									14.2	15.5	14.4	15.6
18											14.4	15.6
19											14.4	15.6
20											14.4	15.6
21											14.4	15.6
22											14.4	15.6
23											14.4	15.6
24											14.4	15.5
25												

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Week 2 PM: 06/14/2006

River Flow (Jay, Maine): 15,708 cfs

Weather: Heavy thunderstorms and downpour early afternoon; rain late afternoon

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

Comments: Pond somewhat choppy due to PM thunderstorms and wind. Current running swift due to recent heavy rains. No sign of algae at any location

PM Meter Verification: Before Sampling

Model	Use	DO(mg/L)	Temp. (°C)	Calibrated
YSI 6920	Primary	10.0	18.1	Y
YSI 55	Comparison	9.8	18.3	Y

PM Meter Verification: After Sampling

Model	Use	DO(mg/L)	Temp. (°C)	Calibrated
YSI 6920	Primary	10.1	18.2	Y
YSI 55	Comparison	10.0	18.2	Y

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		Duplicate-Lower		GIP 4		Deep Hole	
	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)
0	10.1	16.6	9.9	16.6	11.1	16.5	9.9	17.0	9.7	17.2	9.8	17.2	9.8	17.6
1			9.9	16.6	11.1	16.5	10.0	16.7	9.8	16.6	9.9	16.8	9.8	17.5
2			9.9	16.7	11.1	16.5	10.0	16.6	9.9	16.4	9.9	16.5	10.0	17.0
3			9.9	16.7	11.1	16.5	10.1	16.2	9.9	16.3	9.9	16.3	10.1	16.2
4			9.9	16.6	11.0	16.5	10.0	16.3	9.9	16.3	10.0	16.3	10.1	16.1
5			9.9	16.7	10.9	16.4	10.0	16.3	9.9	16.2	10.0	16.0	10.0	16.0
6			9.9	16.6	10.8	16.4	10.0	16.2	9.9	16.2	10.0	15.9	10.0	16.0
7			9.9	16.6	10.8	16.4	10.0	16.2	9.9	16.2	9.9	15.9	10.0	16.0
8			9.9	16.6	10.7	16.4	10.0	16.2	9.9	16.2	9.9	15.9	10.0	16.0
9			9.9	16.6	10.6	16.4	10.0	16.2	9.9	16.2	10.0	15.8	10.0	16.0
10			9.9	16.6	10.5	16.4	10.0	16.1	9.9	16.2	10.0	15.8	10.0	15.9
11			9.9	16.6			10.0	16.1	9.9	16.2	9.9	15.7	10.0	15.8
12							10.0	16.1	9.9	16.1	9.9	15.7	10.0	15.8
13							10.0	16.1	9.9	16.1	9.9	15.7	10.0	15.8
14							10.0	16.1	9.9	16.0	9.9	15.7	10.0	15.8
15							10.0	16.0	9.9	16.0	9.8	15.7	10.0	15.8
16							10.0	16.0	9.9	16.0	9.7	15.7	10.0	15.8
17							9.9	16.0			9.5	15.7	10.0	15.8
18													10.0	15.8
19													10.0	15.8
20													10.0	15.8
21													10.0	15.8
22													10.0	15.7
23													10.0	15.7
24													10.0	15.6
25													10.0	15.6