

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

Week 10 AM: 08/08/2006

River Flow (Jay, Maine): 3,390 cfs

Weather: Sunny, quite windy, cool. Wind from NW (usually from SW).

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

Comments: Diffuser running at medium capacity. Pond very choppy. Slight green tint in to Algae particles at low density in column and on surface at Deep Hole, GIP 4, Turner Bridge
 Algae particles at medium-low density in column and on surface at Upper and Lower Narrows

AM Meter Verification: Before Sampling

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	5:10	7.6	23.2	y
YSI 55	Comparison	5:10	7.8	23.2	y

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows	
	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)
0	7.6	23.2	6.8	23.3	7.0	23.9
1			6.8	23.3	6.8	23.8
2			6.8	23.3	6.8	23.8
3			6.6	23.3	6.8	23.7
4			6.5	23.3	6.7	23.6
5			6.5	23.3	6.6	23.6
6			6.6	23.3	6.7	23.6
7			6.6	23.3	6.7	23.5
8			6.5	23.3	6.5	23.3
9			6.6	23.3	4.6	23.2
10			6.6	23.3		
11			6.5	23.3		
12						
13						
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Verso Paper/NewPage Corporation
2006 Gulf Island Pond Water Quality Study
Dissolved Oxygen and Temperature Profiles

Week 10 PM: 08/08/06

River Flow (Jay, Maine): 3,390 cfs

Weather: Sunny, extremely windy, cool. Wind from NW (usually from SW).

Air Temperature: 75 deg. F (24 deg. C)

Comments: Diffuser running at full capacity. Pond very choppy. Slight green tint in top me
 Algae particles at low density in column and on surface at Deep Hole, GIP 4, Turner Bridge
 Algae particles at medium-low density in column and on surface at Upper and Lower Narrows

PM Meter Verification: Before Sampling

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	11:15	6.6	23.8	N
YSI 55	Comparison	11:15	6.6	23.8	N

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows	
	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)
0	7.2	24.6	6.9	24.2	7.0	24.1
1			6.6	24.1	6.9	24.1
2			6.7	24.1	6.8	24.0
3			6.7	23.9	6.7	23.9
4			6.6	23.8	6.6	23.7
5			6.6	23.7	6.6	23.6
6			6.5	23.7	6.7	23.5
7			6.4	23.6	6.0	23.5
8			6.3	23.6	6.1	23.4
9			6.2	23.6		
10			6.2	23.6		
11			6.0	23.5		
12						
13						
14						
15						
16						
17						
18						
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p meter of water column at all sites.

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AM Meter Verification: After Sampling

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	9:10	7.3	23.2	n
YSI 55	Comparison	9:10	7.4	23.1	n

Lower Narrows		GIP 4		Deep Hole*	
DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)
6.5	24.7	6.4	24.5	5.8	24.6
6.6	24.7	6.2	24.5	5.8	24.6
6.4	24.7	6.2	24.5	5.7	24.6
6.6	24.7	6.4	24.5	5.6	24.6
6.6	24.6	6.4	24.5	5.9	24.5
6.7	24.6	6.4	24.5	5.9	24.4
6.7	24.6	6.4	24.5	5.8	24.4
6.6	24.5	6.5	24.5	5.8	24.4
6.5	24.2	6.5	24.4	5.8	24.4
6.5	24.1	6.4	24.3	5.8	24.3
6.6	23.8	6.5	24.1	5.6	24.2
6.7	23.7	6.3	24.1	5.6	24.2
6.7	23.6	6.4	24.0	5.6	24.1
6.5	23.5	6.4	24.0	5.5	24.1
6.3	23.5	6.3	24.0	5.5	24.1
6.4	23.4	6.2	24.0	5.6	24.0
5.6	23.3			5.7	24.0
				5.8	24.0
				5.6	24.0
				5.8	24.0
				5.7	24.0
				5.7	24.0
				5.6	24.0
				5.6	24.0
				5.5	24.0
				4.6	24.0

*: Meter Verification
 Hole profile: YSI 85:
 C; YSI 55: 6.4 mg/L C

ter of water column at all sites.

s.

PM Verification: After Sampling

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	15:50	7.3	24.5	N
YSI 55	Comparison	15:50	7.5	24.4	N

Dup. 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)
7.0	24.0	6.8	25.0	7.0	24.8	6.7	24.9
7.1	24.0	6.8	25.0	6.9	24.8	6.6	24.9
6.8	24.0	6.7	24.9	6.9	24.8	6.8	24.8
6.7	24.0	6.6	24.9	6.9	24.8	6.6	24.8
6.9	23.7	6.7	24.9	6.9	24.8	6.5	24.7
6.9	23.6	6.8	24.9	6.8	24.7	6.5	24.6
6.4	23.5	6.8	24.5	6.8	24.7	6.0	24.5
6.0	23.5	6.6	24.2	6.8	24.7	6.2	24.4
6.1	23.4	6.8	24.0	6.8	24.7	6.1	24.4
		6.5	23.7	6.7	24.6	6.1	24.4
		6.3	23.7	6.7	24.6	6.0	24.4
		6.3	23.6	6.7	24.6	6.0	24.4
		6.3	23.6	6.7	24.6	6.1	24.3
		6.4	23.5	6.7	24.6	6.0	24.2
		6.3	23.5	6.7	24.6	6.1	24.2
		6.3	23.5	6.7	24.6	6.0	24.2
						6.0	24.1
						6.0	24.1
						6.0	24.1
						5.9	24.1
						6.0	24.1
						6.0	24.1

5.7	24.1
5.6	24.1

performed after Deep
6.2 mg/L @ 24.6 deg.
@ 24.6 deg. C

