

**2007 Gulf Island Pond Water Quality Study
Dissolved Oxygen and Temperature Profiles**

Week 11 AM: 08/14/2007

River Flow (Jay, Maine): 2,856 cfs

Weather: Partly Cloudy with a slight breeze

Air Temperature:55-65 deg. F (15-18 deg. C)

Comments: Pond calm; no green tint, very few particles. Diffuser running at full strength.

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	5:15	7.7	22.0	n
YSI 51 B	Comparison	5:15	7.2	22.0	y
YSI 55	Twin Bridges	5:15	7.6	22.0	n

<- altitude malfunctioning

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows	
	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)
0	7.7	22.0	7.0	23.3	7.2	23.8
1			7.0	23.5	7.0	24.0
2			6.9	23.5	6.9	24.1
3			7.1	23.5	7.0	24.1
4			7.1	23.5	7.4	23.9
5			6.9	23.5	7.6	23.7
6			7.0	23.5	7.8	23.6
7			7.0	23.5		
8			6.2	23.5		
9			6.5	23.5		
10			6.2	23.5		
11			6.1	23.5		
12			6.5	23.5		
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25			6.7	23.5	7.3	23.9

**2007 Gulf Island Pond Water Quality Study
Dissolved Oxygen and Temperature Profiles**

Week 11 PM: 08/14/2007

River Flow (Jay, Maine): 2,856 cfs

Weather: Partly Sunny, alternating NW-SW breeze

Air Temperature: 70 deg F (23 deg. C)

Comments: Wind speed increased in afternoon, causing drift; pond choppy. Diffuser runnin

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	10:40	6.9	23.4	n
YSI 51B	Comparison	10:40	6.8	23.3	n
YSI 55	Twin Bridges	10:40	6.8	23.4	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	7.6	22.2	7.2	24.0	7.9	24.4
1			7.2	23.8	7.9	24.4
2			7.0	23.5	7.8	24.3
3			6.9	23.3	7.7	23.9
4			7.0	23.3	7.7	23.5
5			7.0	23.2		
6			6.8	23.2		
7			5.1	23.2		
8			4.7	23.2		
9			4.4	23.2		
10			4.2	23.2		
11			4.3	23.1		
12			4.5	23.2		
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25			5.9	23.3	7.8	24.1

AM Meter Verification: After Sampling

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	8:25	7.0	23.5	n
YSI 51B	Comparison	8:25	7.0	23.3	n
YSI 55	Twin Bridges	8:25	6.8	23.4	n

Lower Narrows		GIP 4		Deep Hole	
DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)
7.6	24.2	7.2	24.2	7.2	23.6
7.4	24.3	7.3	24.3	6.9	24.4
7.6	24.3	7.1	24.4	6.7	24.4
7.2	24.3	6.9	24.2	6.6	24.4
7.3	24.2	7.1	24.0	5.6	24.3
7.3	23.8	7.3	23.9	5.7	23.0
7.2	23.8	7.3	23.8	5.8	23.8
7.2	23.7	7.3	23.7	6.2	23.7
6.5	23.5	7.0	23.5	6.2	23.6
6.5	23.5	6.9	23.4	6.3	23.5
6.2	23.2	6.7	23.4	6.3	23.4
6.5	23.1	6.6	23.3	6.2	23.4
6.7	23.1	6.5	23.3	6.3	23.3
6.5	23.0	6.5	23.2	6.2	23.2
0.1	22.9	6.7	23.2	6.2	23.2
0.0	22.8	6.6	23.1	6.2	23.1
		6.2	23.0	6.1	23.1
		4.4	22.8	6.2	23.0
		0.1	22.6	6.2	23.0
				5.6	22.9
				4.8	22.6
				0.1	20.2
				0.1	15.4
				0.0	14.2
				0.0	13.8
6.1	23.6	6.4	23.5	5.2	22.3

1g full strength

PM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	15:50	7.3	24.1	n
YSI 51B	Comparison	15:50	7.4	24.0	n

Lower Narrows		GIP 4		Deep Hole		GIP 4 -Duplicate	
DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)
7.8	24.8	7.5	24.4	7.8	24.7	7.5	24.4
7.7	24.6	7.3	24.4	7.7	24.6	7.4	24.5
7.4	24.5	7.4	24.4	7.6	24.5	7.3	24.4
7.2	24.4	7.3	24.4	7.5	24.4	7.2	24.3
7.3	24.4	7.1	24.3	7.1	24.4	7.1	24.3
7.2	24.0	6.7	24.1	7.0	24.4	7.1	24.2
7.3	23.9	6.9	24.1	7.0	24.4	7.0	24.1
6.4	23.5	6.9	24.0	6.1	24.1	6.9	24.1
6.5	23.4	6.2	23.8	5.8	23.9	6.8	23.9
6.4	23.3	6.5	23.7	5.8	23.7	6.8	23.6
6.4	23.2	6.8	23.5	6.1	23.5	6.7	23.5
6.4	23.2	6.6	23.4	6.4	23.4	6.7	23.4
6.4	23.1	6.7	23.3	6.2	23.4	6.4	23.3
6.1	23.1	6.5	23.3	6.4	23.3	6.6	23.3
5.9	23.0	6.6	23.2	6.3	23.3	6.5	23.2
		6.2	23.2	5.7	23.2	6.3	23.1
		6.0	23.1	5.4	23.1	5.3	22.9
		3.2	22.8	6.1	23.0	4.4	22.8
		0.0	22.4	6.2	23.0	0.0	22.6
				6.0	22.9		
				5.4	22.7		
				0.1	19.7		
				0.0	15.0		
				0.0	14.1		
				0.0	13.8		
6.8	23.8	6.2	23.7	5.4	22.4		