

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

Week 6 AM: 07/10/2007

River Flow (Jay, Maine): 2,939 cfs

Weather:Cloudy, Slight fog , damp with small NW breeze

Air Temperature:55 deg. F (12.65 deg. C)

Comments: Pond calm. Diffuser running full strength. Particle density medium-low at Deep Hole no particles at Turner Bridge. Slight green tint upper 1 meter of column at all sites.

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	5:15	8.0	19.5	n
YSI 51B	Comparison	5:15	7.8	19.5	n
YSI 55	Twin Bridges	5:15	8.0	19.3	y

Model
YSI 550A
YSI 51B
YSI 55

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Hole
	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)
0	8.0	19.5	7.4	20.6	8.1	21.4	7.1
1			7.2	20.6	8.2	21.4	6.9
2			7.1	20.6	8.1	21.4	7.1
3			7.2	20.6	8.1	21.4	7.3
4			7.1	20.6	8.1	21.4	7.3
5			7.2	20.6	8.0	21.4	7.2
6			7.2	20.6	7.6	21.2	7.2
7			7.1	20.6	7.4	21.1	7.2
8			6.3	20.6			7.2
9			6.2	20.6			7.3
10			6.1	20.6			7.4
11			6.1	20.6			7.4
12							7.6
13							7.7
14							7.7
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25			6.9	20.6	8.0	21.3	7.3

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

Week 6 PM: 07/10/2007

River Flow (Jay, Maine): 2,939 cfs

Weather: Sunny with a slight SW breeze

Air Temperature: 70-75 deg. F (20-23 deg. C)

Comments: Pond calm. Diffuser running full strength. Particle density medium-low at Deep Hole no particles at Turner Bridge. Slight green tint upper 1 meter of column at all sites.

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	11:00	7.2	21.0	n
YSI 51B	Comparison	11:00	7.0	21.0	n
YSI 55	Twin Bridges	11:00	7.1	20.8	n

Model
YSI 550A
YSI 51B

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows
	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)
0	8.0	19.9	7.8	22.3	8.3	23.1	7.3
1			7.9	22.2	8.1	22.7	7.4
2			7.5	20.8	8.5	21.7	7.3
3			7.4	20.7	8.2	21.3	7.2
4			7.4	20.7	8.4	21.3	7.3
5			7.3	20.7	8.6	21.2	7.4
6			7.4	20.7	8.7	21.2	7.5
7			7.4	20.7	8.7	21.2	7.4
8			7.4	20.7	0.1	21.2	7.3
9			6.7	20.7			7.5
10			6.8	20.6			7.7
11			6.8	20.6			7.7
12			6.9	20.6			7.7
13							0.0
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25			7.3	20.9	7.5	21.7	6.9

e, GIP-4 and Lower Narrows; very low density at Upper Narrows,

AM Meter Verification: After Sampling				
Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
Primary	8:15	7.2	20.4	n
Comparison	8:15	7.0	20.2	n
Twin Bridges	8:15	7.0	20.1	n

Narrows	GIP 4		Deep Hole	
	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)
21.8	7.1	21.9	6.7	21.9
21.8	6.9	21.9	6.5	21.9
21.8	7.0	21.9	6.5	22.0
21.8	7.0	21.9	6.6	22.0
21.8	7.0	21.9	6.7	22.0
21.8	7.0	21.9	6.7	22.0
21.8	7.2	21.9	6.7	22.0
21.8	7.1	21.9	6.4	22.0
21.7	6.9	21.9	6.3	22.0
21.7	7.0	21.9	6.3	22.0
21.7	7.0	21.9	6.4	22.0
21.7	6.8	21.9	6.6	22.0
21.6	6.9	21.9	6.6	22.0
21.6	6.8	21.9	6.6	22.0
21.6	6.9	21.8	6.4	22.0
	6.9	21.8	5.7	21.9
	6.1	21.8	4.9	21.8
	5.8	21.8	4.9	21.8
			4.9	21.8
			3.0	21.2
			0.2	17.2
			0.0	15.9
			0.0	15.3
			0.0	14.9
			0.0	14.7
21.7	6.9	21.9	4.9	20.7

e, GIP-4 and Lower Narrows; very low density at Upper Narrows,

PM Meter Verification: After Sampling				
Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
Primary	15:15	7.8	22.4	n
Comparison	15:15	7.5	22.5	n

Narrows	GIP 4		Deep Hole		Dup-Deep Hole		
	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	
	23.5	7.2	23.2	7.0	23.2	7.1	23.3
	23.0	7.2	22.7	6.7	22.4	6.9	22.7
	22.1	7.2	22.2	6.7	22.1	6.6	22.1
	21.8	7.3	22.0	6.7	22.0	6.4	22.0
	21.8	7.3	22.0	6.7	22.0	6.5	22.0
	21.7	7.2	22.0	6.7	22.0	6.9	22.0
	21.7	7.2	22.0	6.8	22.0	6.3	22.0
	21.7	7.1	21.9	6.7	22.0	6.4	22.0
	21.7	7.2	21.9	6.6	22.0	6.6	21.9
	21.7	7.2	21.9	6.7	22.0	6.5	21.9
	21.6	7.1	21.9	6.9	22.0	6.3	21.9
	21.6	7.0	21.8	6.9	21.9	6.8	21.9
	21.6	6.9	21.8	6.6	21.9	6.6	21.9
	21.5	6.9	21.7	6.3	21.9	6.2	21.8
		6.8	21.7	6.2	21.9	6.2	21.8
		6.7	21.7	6.0	21.9	6.2	21.8
		6.8	21.7	5.8	21.8	5.9	21.8
		6.3	21.7	5.5	21.8	5.4	21.7
				4.7	21.7	4.6	21.5
				1.7	21.8	1.5	20.4
				0.1	17.2	0.0	17.1
				0.0	15.7	0.0	15.5
				0.0	15.2	0.0	15.1
				0.0	15.0	0.0	14.9
				0.0	14.7	0.0	14.8
21.9	7.0	22.0	5.0	20.7			