

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

**Week 10 AM: 08/7/2007**

**River Flow (Jay, Maine): 2,890 cfs**

**Weather:** Foggy, slight NW breeze

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

**Comments:** Pond level down approx. 2m. Slight green tint, very low particle density in upper 0.5m. Diffuser running full strength.

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	5:30	6.9	23.2	n
YSI 51B	Comparison	5:30	6.8	23.0	n
YSI 55	Twin Bridges	5:30	7.0	23.1	n

Model
YSI 550A
YSI 51B
YSI 55

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	6.9	23.2	6.3	25.1	7.2	25.9	6.4
1			6.4	25.1	7.2	25.9	6.3
2			6.3	25.1	7.1	25.9	6.4
3			6.3	25.1	7.2	25.9	6.4
4			6.3	25.1	7.1	25.9	6.3
5			6.4	25.1	7.2	25.9	6.2
6			6.4	25.1	7.2	25.9	6.1
7			6.4	25.1	7.1	25.7	6.0
8			5.3	25.1			6.0
9			5.2	25.1			6.2
10			4.9	25.1			6.1
11			4.8	25.1			6.0
12							6.1
13							0.3
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25			5.9	25.1	7.2	25.9	5.8

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

**Week 10 PM:** 08/07/2007

**River Flow (Jay, Maine):** 2,890 cfs

**Weather:** Mostly sunny, slight SW breeze

**Air Temperature:** 80 deg. F ( 28 deg. C)

**Comments:** Pond level down approx. 2m. Pond relatively calm. Slight green tint, very low parti  
Diffuser running full strength.

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	10:25	6.2	25.5	n
YSI 51B	Comparison	10:25	6.1	25.5	n
YSI 55	Twin Bridges	10:25	6.1	25.4	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	7.2	23.7	7.1	26.2	7.6	27.6	7.2
1			7.1	26.0	7.4	26.0	7.3
2			7.0	24.9	7.3	25.9	7.2
3			6.9	24.8	7.8	25.8	7.2
4			6.8	24.8	7.7	25.7	7.0
5			6.8	24.7	7.9	25.7	7.0
6			6.8	24.7	7.8	25.7	7.1
7			6.7	24.7			6.9
8			6.0	24.7			7.1
9			6.0	24.7			7.2
10			5.9	24.7			7.3
11			4.2	24.7			7.2
12			4.2	24.7			7.1
13			4.0	24.7			0.1
14							0.1
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25			6.1	24.9	7.6	26.1	6.2

5 m at Deep Hole and GIP 4

AM Meter Verification: After Sampling				
Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
Primary	8:20	6.3	25	n
Comparison	8:20	6.1	25	n
Twin Bridges	8:20	6.1	24.9	n

Narrows	GIP 4		Deep Hole	
	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)
26.2	5.7	26.5	5.9	26.5
26.3	5.9	26.6	5.8	26.5
26.3	5.9	26.6	5.7	26.6
26.3	5.9	26.6	5.8	26.6
26.3	5.9	26.6	5.8	26.6
26.3	6.0	26.6	5.9	26.6
26.3	5.9	26.6	6.0	26.6
26.3	5.9	26.6	5.4	26.6
26.3	5.6	26.6	5.3	26.6
26.3	5.7	26.6	5.4	26.6
26.3	5.5	26.6	5.5	26.6
26.3	5.6	26.6	5.4	26.6
26.3	5.2	26.5	5.0	26.5
22.6	5.3	26.5	5.0	26.5
	4.6	26.4	4.4	26.5
	4.6	26.1	3.9	26.3
	3.6	26.0	3.0	26.0
			2.1	25.4
			0.8	24.3
			0.1	21.6
			0.1	19.1
			0.0	17.0
			0.0	15.3
			0.0	14.4

26.0      5.5      26.5      3.8      24.5

cle density in upper 0.5 m at Deep Hole and GIP 4

PM Verification: After Sampling				
Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
Primary	15:00	7.2	26.1	n
Comparison	15:00	7.0	26.0	y

Narrows	GIP 4		Deep Hole		Dup. Upper Narrows	
	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)
27.7	6.7	27.9	6.7	28.4	7.3	27.5
26.8	6.4	27.2	6.3	27.0	7.3	27.3
26.5	6.3	26.6	6.3	26.7	7.3	25.9
26.4	6.1	26.6	6.3	26.6	7.4	25.8
26.3	5.9	26.6	6.0	26.6	7.3	25.8
26.3	6.0	26.5	6.2	26.6	7.9	25.7
26.3	5.9	26.5	6.2	26.5	7.9	25.7
26.3	5.6	26.5	6.2	26.5		
26.2	6.0	26.5	6.1	26.5		
26.1	6.1	26.5	6.0	26.5		
26.1	6.0	26.4	5.7	26.5		
26.0	6.1	26.4	5.7	26.4		
26.0	5.9	26.3	5.3	26.4		
22.6	5.6	26.3	4.7	26.3		
22.1	5.5	26.3	4.9	26.2		
	5.4	26.2	3.7	26.1		
	4.6	25.9	3.1	25.9		
	2.6	25.5	3.1	25.6		
			0.9	24.2		
			0.1	21.4		
			0.0	18.9		
			0.0	16.5		
			0.0	14.8		
			0.0	14.4		

25.8      5.7      26.5      4.1      24.5