

**2007 Gulf Island Pond Water Quality Stud
Dissolved Oxygen and Temperature Profile**

Week 5 AM: 07/03/2007

River Flow (Jay, Maine): 2330 cfs

Weather: Sunny, NW breeze

Air Temperature: 60-65 deg. F (15-18 deg. C)

Comments: Green tint in upper 1.5 meters of column at every site. Particles on surface and in column at medium-low density at Deep Hole; at low density at GIP-4; at very low density at Lower Narrows, Upper Narrows, and Turner Bridge. Pond level down approx. 1 meter. Pond choppy in AM due to NW breeze. Diffuser running full strength.

DNS- did not sample due to equipment malfunction

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp.(°C)	Calibrated
YSI 550A	Primary	5:30	7.8	20.0	y
YSI 51B	Comparison	5:30	7.8	20.0	y
YSI 55	Twin Bridges	5:30	ERROR	ERROR	y

AM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp.(°C)	Calibrated
YSI 550A	Primary	8:05	7.2	22.0	n
YSI 51B	Comparison	8:05	7.1	22.1	n
YSI 55	Twin Bridges	8:05	ERROR	ERROR	ERROR

error due to equipment malfunction

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	DNS	DNS	7.5	22.6	8.2	22.5	7.8	22.8	7.3	22.7	7.1	22.9
1			7.2	22.6	7.9	22.7	7.7	22.7	7.4	22.7	7.1	23.0
2			7.2	22.6	8.2	22.7	7.5	22.8	7.3	22.8	7.0	23.0
3			7.2	22.5	8.1	22.7	7.6	22.8	7.4	22.8	7.0	23.0
4			7.2	22.5	8.1	22.7	7.8	22.8	7.3	22.8	7.0	23.1
5			7.2	22.5	8.4	22.7	7.9	22.8	7.4	22.8	6.8	23.1
6			7.2	22.4	8.5	22.7	7.7	22.8	7.3	22.8	7.0	23.1
7			6.8	22.4	8.4	22.7	7.8	22.8	7.4	22.8	7.1	23.1
8			6.2	22.4	8.0	22.4	7.9	22.8	7.4	22.8	7.1	23.1
9			5.7	22.4			7.6	22.8	7.4	22.8	7.0	23.1
10			5.6	22.4			7.4	22.7	7.3	22.8	7.0	23.0
11			5.3	22.4			7.3	22.6	7.4	22.8	7.1	23.0
12							3.5	21.9	7.0	22.8	7.1	23.0
13							1.9	20.7	7.1	22.8	7.1	22.8
14							1.8	20.4	7.0	22.8	5.6	22.8
15							0.1	18.7	5.5	21.7	5.5	21.5
16									4.3	21.2	5.2	21.3
17									3.9	21.0	4.4	21.0
18											3.7	20.8
19											3.3	20.2
20											0.8	16.5
21											0.7	16.1
22											0.2	15.5
23											0.1	15.2
24											0.0	15.0
25			6.7	22.5	8.2	22.6	6.2	22.2	6.8	22.5	5.1	21.1

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

Week 5 PM: 07/03/2007

River Flow (Jay, Maine): 3,724 cfs

Weather: mostly Sunny water choppy at deep hole but calmed down later in afternoon

Air Temperature: 60-70 deg. F (15-20 deg. C)

Comments: Green tint in upper 1.5 meters of column at every site. Particles on surface and in column at medium-low density at Deep Hole; at low density at GIP-4; at very low density at Lower Narrows, Upper Narrows, and Turner Bridge. Pond level down approx. 1 meter. Pond choppy in AM due to NW breeze; drift may have affected readings. Diffuser running full strength.

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp.(°C)	Calibrated
YSI 550A	Primary	10:50	7.8	22.9	n
YSI 51B	Comparison	10:50	7.8	23.0	n
YSI 55	Twin Bridges	ERROR	ERROR	ERROR	n

PM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp.(°C)	Calibrated
YSI 550A	Primary	14:40	7.7	22.8	n
YSI 51B	Comparison	14:40	7.8	23.0	n

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Dup-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	DNS	DNS	7.7	22.7	8.5	23.3	7.9	23.1	7.6	22.9	7.8	22.9	7.6	23.3
1			7.7	22.8	8.4	23.3	7.8	23.1	7.6	22.9	7.8	22.9	7.6	23.3
2			7.5	22.8	8.5	23.3	7.8	23.0	7.6	22.9	7.8	22.9	7.7	23.3
3			7.4	22.7	8.5	23.2	7.8	22.9	7.6	22.9	7.7	22.9	7.6	23.3
4			7.3	22.6	8.2	22.9	7.7	22.9	7.6	22.9	7.7	22.9	7.6	23.3
5			7.2	22.6	7.4	22.7	7.7	22.9	7.6	22.8	7.7	22.9	7.5	23.1
6			7.0	22.6	5.2	22.5	7.6	22.9	7.7	22.8	7.7	22.9	7.5	23.1
7			6.9	22.4			7.6	22.9	7.7	22.8	7.6	22.8	7.5	23.0
8			6.8	22.3			7.6	22.8	7.8	22.8	7.8	22.9	7.4	23.0
9			6.2	22.3			7.5	22.8	7.7	22.8	7.8	22.8	7.4	23.0
10			5.6	22.3			6.9	22.6	7.7	22.8	7.8	22.8	7.4	23.0
11			5.3	22.3			6.3	22.4	7.8	22.8	7.7	22.8	7.4	22.9
12			5.1	22.3			3.3	21.5	7.8	22.8	7.7	22.8	7.3	22.8
13							2.3	21.0	7.8	22.8	7.7	22.8	7.2	22.8
14							1.3	18.8	7.8	22.8	7.7	22.8	7.2	22.7
15							0.1	18.7	7.7	22.8	7.7	22.8	5.8	21.7
16									7.7	22.8	7.7	22.8	5.4	21.4
17									7.6	22.8	7.6	22.8	4.9	21.2
18													4.3	21.0
19													2.0	18.8
20													0.6	16.4
21													0.4	15.7
22													0.1	15.4
23														
24														
25			6.7	22.5	7.8	23.0	6.1	22.1	7.7	22.8	7.7	22.8		