

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

**Week 8 AM: 07/24/2007**

**River Flow (Jay, Maine):**2653 cfs

**Weather:** Cloudy, slightly foggy, light rain

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

**Comments:** No Particles or tint at Turner Bridge and Upper Narrows. Low density particles in column and GIP-4; particles at medium low density in column and on surface at Deep Hole. Diffuser run

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	5:30	8.0	21.6	n
YSI 51B	Comparison	5:30	7.8	21.5	alt-adjusted
YSI 55	Twin Bridges	5:30	7.8	21.4	n

Model
YSI 550A
YSI 85
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	8.0	21.6	7.4	22.2	7.6	22.6	7.3
1			7.3	22.3	7.4	22.6	7.4
2			7.5	22.3	7.6	22.3	7.6
3			7.5	22.3	7.8	22.3	7.9
4			7.5	22.3	7.8	22.2	7.8
5			7.3	22.3	7.4	22.2	7.8
6			7.3	22.2	7.2	22.2	7.7
7			7.3	22.2	7.2	22.1	7.7
8			7.3	22.2	0.1	21.9	7.5
9			7.3	22.2			7.5
10			6.9	21.9			6.7
11							5.8
12							5.6
13							5.5
14							0.1
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25			7.3	22.2	6.7	22.3	6.7

## Dissolved Oxygen and Temperature Profiles

Week 8 PM: 07/24/2007

River Flow (Jay, Maine): 2,653 cfs

Weather: Sunny, SW breeze increasing through afternoon

Air Temperature: 65 - 80 deg. F (22-26 deg. C)

Comments: No Particles or tint at Turner Bridge and Upper Narrows. Low density particles in cc and GIP-4; particles at medium low density in column and on surface at Deep Hole. Diffuser run

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	10:45	7.5	22.3	n
YSI 51B	Comparison	10:45	7.2	22.2	n
YSI 55	Twin Bridges	10:45	7.2	22.2	n

Model
YSI 550A
YSI 51B

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower N
	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)
0	7.5	21.9	8.0	24.1	8.7	24.5	8.1
1			7.8	23.9	8.6	24.2	8.2
2			7.6	22.7	8.3	22.9	7.8
3			7.5	22.3	8.2	22.3	7.6
4			7.5	22.3	8.3	22.2	7.8
5			7.5	22.2	8.3	22.2	7.6
6			7.5	22.2	8.3	22.1	7.7
7			7.4	22.2	8.1	22.1	8.0
8			7.3	22.2			8.0
9			5.6	22.2			7.9
10			4.3	22.2			7.8
11			4.0	22.2			7.5
12							6.5
13							6.0
14							4.6
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25			6.8	22.6	8.4	22.8	7.4

lumn and on surface at Lower Narrows  
 ing full strengtl

AM Meter Verification (After Sampling)				
Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
Primary	8:10	7.3	22.3	n
Comparison	8:10	7.0	22.2	n
Twin Bridges	8:10	7.0	22.1	n

Narrows	GIP 4		Deep Hole	
	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)
23.1	7.2	23.1	7.0	23.0
23.1	6.9	23.2	7.0	23.0
22.9	7.0	23.2	7.1	23.0
22.7	6.6	22.9	7.0	23.0
22.6	6.1	22.7	6.9	23.0
22.5	6.1	22.6	6.3	22.8
22.5	6.2	22.5	5.9	22.5
22.4	6.4	22.5	5.9	22.5
22.3	6.6	22.4	6.1	22.4
22.3	6.7	22.3	6.4	22.3
22.1	6.4	22.2	6.5	22.3
22.0	5.7	22.2	6.5	22.2
22.0	5.7	22.1	6.5	22.1
21.9	5.9	22.1	6.1	22.1
21.7	5.9	22.0	5.6	22.0
	5.7	22.0	5.1	22.0
	4.8	21.9	4.5	21.9
	4.0	21.8	3.7	21.8
			2.7	21.4
			1.0	20.8
			0.1	18.5
			0.0	15.9
			0.0	15.0
			0.0	14.9
			0.0	14.8
22.4	6.1	22.4	4.6	21.0

column and on surface at Lower Narrows  
 ning full-strengtl

PM Meter Verification: After Sampling				
Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
Primary	16:35	8.0	24.0	n
Comparison	16:35	8.0	24.1	n alt-adjusted

Narrows	GIP 4		Deep Hole		Dup - Turner Bridge		
	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	
	24.9	7.7	24.9	7.8	24.8	8.1	24.0
	24.4	7.4	24.3	7.4	23.9	7.9	23.9
	22.7	6.9	23.0	7.2	23.2	7.7	22.8
	22.6	6.5	22.8	7.1	23.1	7.5	22.3
	22.6	6.4	22.7	6.7	23.0	7.5	22.2
	22.5	6.0	22.6	6.6	22.7	7.5	22.2
	22.4	6.6	22.5	6.2	22.4	7.3	22.2
	22.3	6.5	22.5	6.5	22.4	7.4	22.2
	22.2	6.4	22.3	6.4	22.4	7.3	22.2
	22.2	6.3	22.2	6.7	22.3	6.7	22.2
	22.2	6.2	22.2	6.4	22.3	6.3	22.2
	22.2	6.1	22.1	6.7	22.3	4.1	22.1
	22.0	6.8	22.1	6.6	22.2		
	21.9	6.5	22.1	6.5	22.2		
	21.8	6.4	22.0	6.4	22.1		
		5.6	21.9	6.1	22.0		
		5.0	21.8	5.8	21.9		
		4.7	21.8	5.2	21.9		
		0.1	21.0	3.7	21.6		
				2.4	21.2		
				0.1	20.2		
				0.0	18.4		
				0.0	15.2		
				0.0	14.7		
				0.0	14.3		
	22.6	6.0	22.5	5.0	21.3		