

**Verso Paper/NewPage Corporation**  
**2006 Gulf Island Pond Water Quality Study**  
**Dissolved Oxygen and Temperature Profiles**

**Week 13 AM: 8/29/06**

**River Flow (Jay, Maine):** ~2400 cfs

**Weather:** Cloudy, cool, slight breeze, slight mist

**Air Temperature:** 50 deg F (10 deg C)

**Comments:** Pond calm and at normal level. Diffuser running at full strength. Slight green tint in up density in column, none on surface at Turner Bridge; algae particles at medium density in column, ver particles at very low density in column, none on surface at Lower Narrows; algae particles at medium-GIP-4; algae particles at medium density in column and low density at surface at Deep Hole.

**AM Meter Verification: Before Sampling**

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	5:40	8.3	18.2	N
YSI 85	Comparison	5:40	8.5	18.2	N
YSI 55	Comparison	5:40	8.3	18.2	N

Model
YSI 550A
YSI 85

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower
	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)
0	8.3	18.2	7.4	18.7	7.2	19.7	7.2
1			7.4	18.7	7.4	19.6	7.2
2			7.5	18.7	7.9	19.5	7.2
3			7.5	18.8	7.8	19.5	7.2
4			7.5	18.7	7.9	19.5	7.1
5			7.6	18.7	7.8	19.5	7.2
6			7.6	18.7	7.8	19.5	7.3
7			7.6	18.7	7.5	19.5	7.4
8			7.6	18.7	7.3	19.5	7.5
9			7.5	18.7			7.5
10			7.6	18.7			7.5
11			7.6	18.7			7.5
12							7.7
13							7.7
14							7.7
15							7.6
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**Dissolved Oxygen and Temperature Profiles**

**Week 13 PM: 8/29/06**

**River Flow (Jay, Maine): ~2400 cfs**

**Weather:** Cloudy, cool, slight breeze, slight mist

**Air Temperature:** 60-65 deg F (16-18 deg. C)

**Comments:** Pond calm and at normal level. Diffuser running at full strength. Slight green tint in up

**PM Meter Verification: Before Sampling**

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	10:50	7.0	18.8	N
YSI 85	Comparison	10:50	7.0	18.9	N
YSI 55	Comparison	10:50	7.1	18.9	N

Model
YSI 550A
YSI 85

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower
	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)
0	8.3	18.3	7.9	18.7	7.6	19.5	7.7
1			7.9	18.6	7.5	19.3	7.5
2			7.9	18.6	7.7	19.2	7.5
3			7.9	18.6	7.7	19.2	7.3
4			7.8	18.6	7.6	19.2	7.3
5			7.8	18.5	7.8	19.2	7.6
6			7.8	18.5	7.7	19.2	7.6
7			7.7	18.5	7.6	19.2	7.4
8			7.7	18.5	7.5	19.2	7.7
9			7.7	18.5			7.6
10			7.7	18.5			7.6
11			7.6	18.5			7.6
12							7.5
13							7.6
14							7.5
15							7.5
16							
17							

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per 1/2 meter at all sites. Algae particles at medium density on surface at Upper Narrows; algae -low density in column and low density on surface at

**AM Meter Verification: After Sampling**

Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
Primary	8:50	7.4	18.7	N
Comparison	8:50	7.4	18.7	N

Narrows	GIP 4		Deep Hole	
	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)
20.4	7.0	20.7	7.0	20.5
20.4	7.0	20.7	6.9	20.5
20.4	7.1	20.7	6.8	20.6
20.4	6.7	20.7	6.8	20.6
20.3	6.5	20.7	6.8	20.6
20.2	7.1	20.7	6.7	20.6
20.2	7.2	20.6	6.7	20.6
20.1	6.5	20.5	6.8	20.6
20.1	6.7	20.4	6.8	20.6
20.0	6.7	20.3	6.8	20.5
19.8	7.1	20.3	6.5	20.5
19.6	6.8	20.3	6.4	20.5
19.6	7.0	20.2	6.4	20.4
19.5	7.1	20.1	6.5	20.4
19.5	7.1	20.1	6.5	20.4
19.5	6.9	20.1	6.5	20.4
	6.7	20.1	6.5	20.4
	0.1	20.1	6.6	20.4
			6.6	20.4
			6.6	20.4
			6.6	20.4

6.3	20.3
6.0	20.3
6.1	20.3
5.8	20.3
0.1	20.1

per 1/2 meter at all sites. Algae particles at mediur

**PM Meter Verification: After Sampling**

Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
Primary	15:25	7.9	18.7	N
Comparison	15:25	7.9	18.8	N

Narrows	GIP 4		Deep Hole		Dup-Deep Hole	
	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)
20.5	7.3	20.8	7.4	20.8	7.4	20.8
20.5	7.3	20.8	7.0	20.8	7.4	20.8
20.3	7.1	20.8	7.2	20.6	7.2	20.7
20.2	7.1	20.6	7.2	20.6	7.1	20.6
20.2	7.1	20.6	7.1	20.6	7.2	20.6
20.1	7.1	20.6	7.0	20.6	7.1	20.6
20.1	7.0	20.5	6.9	20.5	7.1	20.6
19.9	6.8	20.4	6.7	20.5	6.9	20.5
19.7	6.9	20.4	6.7	20.5	6.9	20.5
19.7	7.4	20.1	6.7	20.5	6.8	20.5
19.6	7.5	20.0	6.7	20.5	6.8	20.5
19.6	7.4	19.9	6.8	20.4	7.0	20.5
19.6	7.4	19.8	6.8	20.4	6.9	20.4
19.5	7.3	19.8	6.9	20.3	6.8	20.4
19.5	7.4	19.8	6.8	20.3	6.8	20.3
19.5	7.5	19.8	7.0	20.3	6.9	20.3
	7.5	19.8	7.0	20.2	7.1	20.2
			7.0	20.2	7.0	20.2

7.1	20.2	7.0	20.2
7.0	20.2	7.0	20.2
7.1	20.2	7.1	20.2
7.0	20.2	7.0	20.2
7.0	20.2	7.0	20.1
7.1	20.1	7.1	20.1
7.1	20.0	7.2	20.1