2007 Gulf Island Pond Water Quality Study
Summary of Laboratory Results

	Date: 6/5/07			
Location	**Ortho-P (µg/L) Filtered**	**Total-P (µg/L)**	**Chlorophyll-a (mg/L) Corrected**	**Chlorophyll-a (mg/L) Un-Corrected**
Twin Bridges	0.5	34	1.9	2.8
Turner Bridge	3.4	27	1.7	2.5
Upper Narrows	1.3	19	1.8	2.5
Lower Narrows	1.2	19	1.9	2.6
GIP 4	1.2	21	1.8	2.7
Deep Hole	1.1	19	1.9	2.7
Field Blank	0.5	<1	0.5	0.5
Duplicate	1.0	32	2	2.8

Date: 6/12/07				Date: 6/19/07				Date:
Ortho-P (µg/L) Filtered	Total-P (µg/L)	Chlorophyll-a (mg/L) Corrected	Chlorophyll-a (mg/L) Un-Corrected	Ortho-P (µg/L) Filtered	Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered
1.0	17	2.1	2.7	0.5	17	3.3	4.2	1.2
1.0	15	2.3	2.8	0.5	18	3.8	4.9	1.2
1.1	17	2.2	2.7	1.0	21	4.2	5.5	1.1
1.1	15	2.4	2.9	1.1	20	4.6	6.1	1.0
1.7	16	2.8	3.3	0.5	18	4.7	6.7	1.1
1.2	16	3.3	3.9	0.5	18	5.3	7.2	1.2
0.5	<1	0.5	0.5	0.5	1	0.5	0.5	0.5
1.0	15	2.3	2.7	1.4	18	4	5.4	1.0

6/26/07			Date:	7/2/07			Date:
Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered	Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered
19	4.7	5.8	1.1	26	4.9	6.7	1.6
18	6.1	7.2	1.0	22	4.3	5.7	1.3
20	5.2	7.1	0.5	29	3.8	5.1	0.5
18	4	5.7	0.5	23	3.9	5.3	1.6
17	3.2	4.4	1.0	22	3.4	4.6	1.4
18	2.3	3.6	1.1	23	2.9	4.2	2.1
1	0.5	0.5	0.5	<1	0.5	0.5	0.5
19	3.9	5.6	1.0	22	3.3	4.6	1.9

7/10/07			Date:	7/17/07			Date:
Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered	Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered
20	3.5	4.7	1.6	20	2.6	3.2	1.3
19	2.8	3.9	1.9	24	2.4	3	1.3
19	2.8	3.9	2.6	49	2.5	3.1	1.3
19	1.5	2.4	1.4	37	3.4	4.2	1.0
19	1.4	2.2	1.3	45	2.1	3.1	1.8
22	1.4	2.2	1.7	32	3.6	4.5	1.6
1	0.5	0.5	0.5	<1	0.5	0.5	0.5
21	1.3	2.1	1.6	20	2.6	3.2	1.3

7/24/07			Date:	7/31/07			Date:
Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered	Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered
19	2.6	3.2	1.0	17	2.8	3.6	0.5
19	2.9	3.4	0.5	18	2.6	3.3	0.5
20	4.7	5.6	0.5	17	3.1	4.8	0.5
20	4.4	5.5	0.5	17	2.7	4.5	1.1
20	2.3	3.1	1.5	17	2.7	4.2	1.2
18	2.2	3	1.1	15	3	4.5	1.8
<1	0.5	0.5	0.5	<1	0.5	0.5	0.5
18	2.9	3.5	0.5	17	3.1	4.9	0.5

8/7/07			Date: 8/14/07				Date:
Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered	Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered
20	2.9	4.3	0.5	13	1.8	2.5	1.2
19	2.2	3.8	0.5	16	1.5	2.1	0.5
19	2.1	3.9	1.1	17	3.4	4.8	0.5
22	2.7	4.3	0.5	17	3.9	5.3	0.5
20	2.2	3.5	0.5	18	6.5	7.9	0.5
22	2.6	3.9	0.5	19	7.9	11.2	0.5
<1	0.5	0.5	0.5	<1	0.5	0.5	0.5
21	2.6	4.4	0.5	16	6.2	7.8	0.5

8/21/07			Date:	8/28/07			Date:
Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered	Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered
14	3.2	4.2	0.5	16	1.9	3.8	0.5
13	1.9	2.6	0.5	13	2.1	3.1	0.5
16	2	2.7	0.5	14	1.9	3	0.5
15	3.3	4.2	0.5	15	2.8	4	0.5
18	3.7	4.7	0.5	18	4.4	5.6	0.5
20	3.2	4.3	0.5	18	4.1	5.4	0.5
<1	0.5	0.5	0.5	<1	0.5	0.5	0.5
15	3.2	4.3	0.5	16	3.3	4.4	0.5

9/4/07			Date: 9/11/07				Date:
Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered	Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered
17.0	3.6	4.8	1.4	18.0	1.8	2.8	1.5
15	2.2	3.1	1.7	17.0	1.5	2.3	2.4
18	2	2.9	1.1	20.0	1.4	2.3	1.9
17	2.7	3.5	1.0	19.0	1.3	2.2	1.7
20	1.8	2.7	0.5	19.0	0.5	1.7	1.8
18	1.7	2.6	1.2	18.0	1.1	1.8	1.6
<1	0.5	0.5	0.5	2.0	0.5	0.5	0.5
15	2.2	3.1	1.4	20.0	1.4	2.4	1.6

9/18/07			Date: 9/25/07			
Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered	Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected
14.0	1.3	2.1	1.3	15.0	1.4	2.0
14.0	1.3	1.8	1.4	14.0	1.2	1.7
20.0	2.1	2.7	1.1	15.0	1.6	2.1
16.0	2.2	2.9	0.5	15.0	2.2	2.8
16.0	1.3	1.9	0.5	15.0	2.6	3.2
16.0	0.5	1.7	1.0	18.0	2.8	3.4
<1	0.5	0.5	0.5	<1	0.5	0.5
15.0	2.2	2.9	1.0	16.0	2.9	3.6

2007 Gulf Island Pond Water Quality Study
Secchi Disk Measurements and Algae Levels

2007 Acheron Algae Scale
0: Water visually appears clear. No green tint. No visible algae suspended in the water column.
1: Water may have a slight green tint. Some suspended algae visible at very low density.
2: Notable level of visible algae suspended in the water column especially with a viewing scope. Individual algae particles are easily visible but density is low. The water may have a slight green tint. Individual algae particles are well dispersed and do not accumulate in downwind areas.
3: High concentrations of visible algae suspended in the water column over large areas of the pond. Evidence of accumulated algae in downwind coves. This condition is considered to be a bloom.
4: Heavy algae concentration throughout the pond. Large rafts of algae at multiple locations especially in downwind coves. This is considered to be a bloom.

	Secchi Disk Measurement (m) and Algae Lev					
Date	**Turner Bridge Secchi (m)**	**Turner Bridge Algae Level**	**Upper Narrows Secchi (m)**	**Upper Narrows Algae Level**	**Lower Narrows Secchi (m)**	**Lower Narrows Algae Level**
6/5/2007	2.0	0.0	2.8	0.0	2.4	0.0
6/12/2007	2.9	0.0	3.1	0.0	2.7	0.0
6/19/2007	3.2	0.0	2.9	0.5	2.6	1.0
6/26/2007	3.0	0.5	2.9	1.0	3.0	1.0
7/2/2007	2.7	0.5	2.6	1.0	2.6	1.0
7/10/2007	2.4	0.5	2.1	1.0	2.1	2.0
7/17/2007	1.8	0.0	0.9	1.5	1.0	0.0
7/24/2007	2.7	0.0	2.1	0.0	2.6	0.5
7/31/2007	2.6	0.5	3.1	1.0	2.5	2.0
8/7/2007	2.9	0.0	2.7	0.0	2.6	0.0
8/14/2007	3.8	0.0	3.4	0.0	3.5	0.0
8/21/2007	3.0	0.0	3.1	0.0	3.0	0.0
8/28/2007	3.4	0.0	3.2	0.0	2.9	0.0
9/4/2007	2.8	0.0	3.0	0.0	3.0	0.0
9/11/2007	2.9	0.0	2.9	0.0	2.9	0.0
9/18/2007	3.1	0.0	2.7	0.0	3.0	0.0
9/25/2007	3.1	0.0	2.5	0.5	3.2	0.5
mean	2.8		2.7		2.7	

vel For Each Location By Week

GIP 4 Secchi (m)	GIP 4 Algae Level	Deep Hole Secchi (m)	Deep Hole Algae Level	Duplicates	Location of Duplicate
2.5	0.0	2.6	0.0	2.0	Turner Bridge
2.4	0.0	2.6	0.0	2.9	Turner Bridge
2.4	1.5	2.7	1.5	2.9	Upper Narrows
2.3	1.0	2.4	1.5	3.0	Lower Narrows
2.7	1.5	2.8	2.0	2.7	GIP-4
2.1	2.0	2.1	2.0	2.1	DeepHole
1.2	0.0	1.0	0.0	DNS	Twin Bridges
2.6	1.0	2.7	1.5	2.7	Turner Bridge
2.5	2.0	3.0	2.0	DNS	Upper Narrows
2.8	0.5	2.9	0.5	2.6	Lower Narrows
2.9	0.0	3.0	0.0	2.9	GIP-4
2.8	0.0	3.0	0.0	3.0	Deep Hole
2.5	0.0	3.1	0.0	DNS	Twin Bridges
2.8	0.0	3.0	0.0	2.8	Turner Bridge
3.1	0.0	3.4	0.0	2.9	Upper Narrows
3.2	0.0	2.7	0.0	3.0	Lower Narrows
2.9	0.5	2.8	1.0	3.1	Turner Bridge
2.6		2.7			

2007 Gulf Island Pond Water Quality Study Laboratory Analytical Results

Date	Twin Bridges				
	Ortho-P (µg/L) Filtered	Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered
	TWB	TWB	TWB	TWB	TCB
6/5/2007	0.5	34	1.9	2.8	3.4
6/12/2007	1.0	17	2.1	2.7	1.0
6/19/2007	0.5	17	3.3	4.2	0.5
6/26/2007	1.2	19	4.7	5.8	1.2
7/2/2007	1.1	26	4.9	6.7	1.0
7/10/2007	1.6	20	3.5	4.7	1.3
7/17/2007	1.6	20	2.6	3.2	1.9
7/24/2007	1.3	19	2.6	3.2	1.3
7/31/2007	1.0	17	2.8	3.6	0.5
8/7/2007	0.5	20	2.9	4.3	0.5
8/14/2007	0.5	13	1.8	2.5	0.5
8/21/2007	1.2	14	3.2	4.2	0.5
8/28/2007	0.5	16	1.9	3.8	0.5
9/4/2007	0.5	17	3.6	4.8	0.5
9/11/2007	1.4	18	1.8	2.8	1.7
9/18/2007	1.5	14	1.3	2.1	2.4
9/25/2007	1.3	15	1.4	2.0	1.4
mean	1.0	18.6	2.7	3.7	1.2

Turner Center Bridge			Upper Narrows			
Total-P (µg/L) TCB	Chlorophyll-a (ug/L) Corrected TCB	Chlorophyll-a (ug/L) Un-Corrected TCB	Ortho-P (µg/L) Filtered UN	Total-P (µg/L) UN	Chlorophyll-a (ug/L) Corrected UN	Chlorophyll-a (ug/L) Un-Corrected UN
27	1.7	2.5	1.3	19	1.8	2.5
15	2.3	2.8	1.1	17	2.2	2.7
18	3.8	4.9	1.0	21	4.2	5.5
18	6.1	7.2	1.1	20	5.2	7.1
22	4.3	5.7	0.5	29	3.8	5.1
19	2.8	3.9	0.5	19	2.8	3.9
24	2.4	3.0	2.6	49	2.5	3.1
19	2.9	3.4	1.3	20	4.7	5.6
18	2.6	3.3	0.5	17	3.1	4.8
19	2.2	3.8	0.5	19	2.1	3.9
16	1.5	2.1	1.1	17	3.4	4.8
13	1.9	2.6	0.5	16	2.0	2.7
13	2.1	3.1	0.5	14	1.9	3.0
15	2.2	3.1	0.5	18	2.0	2.9
17	1.5	2.3	1.1	20	1.4	2.3
14	1.3	1.8	1.9	20	2.1	2.7
14	1.2	1.7	1.1	15	1.6	2.1
17.7	2.5	3.4	1.0	20.6	2.8	3.8

Lower Narrows				GIP-4		
Ortho-P (µg/L) Filtered	Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered	Total-P (µg/L)	Chlorophyll-a (ug/L) Corrected
LN	LN	LN	LN	GIP 4	GIP 4	GIP 4
1.2	19	1.9	2.6	1.2	21	1.8
1.1	15	2.4	2.9	1.7	16	2.8
1.1	20	4.6	6.1	0.5	18	4.7
1.0	18	4.0	5.7	1.1	17	3.2
0.5	23	3.9	5.3	1.0	22	3.4
1.6	19	1.5	2.4	1.4	19	1.4
1.4	37	3.4	4.2	1.3	45	2.1
1.0	20	4.4	5.5	1.8	20	2.3
0.5	17	2.7	4.5	1.5	17	2.7
1.1	22	2.7	4.3	1.2	20	2.2
0.5	17	3.9	5.3	0.5	18	6.5
0.5	15	3.3	4.2	0.5	18	3.7
0.5	15	2.8	4.0	0.5	18	4.4
0.5	17	2.7	3.5	0.5	20	1.8
1.0	19	1.3	2.2	0.5	19	0.5
1.7	16	2.2	2.9	1.8	16	1.3
0.5	15	2.2	2.8	0.5	15	2.6
0.9	19.1	2.9	4.0	1.0	19.9	2.8

	Deep Hole				Field B	
Chlorophyll-a (ug/L) Un-Corrected GIP 4	Ortho-P (µg/L) Filtered DH	Total-P (µg/L) DH	Chlorophyll-a (ug/L) Corrected DH	Chlorophyll-a (ug/L) Un-Corrected DH	Ortho-P (µg/L) Filtered	Total-P (µg/L)
2.7	1.1	19	1.9	2.7	0.5	<1
3.3	1.2	16	3.3	3.9	0.5	<1
6.7	0.5	18	5.3	7.2	0.5	1
4.4	1.2	18	2.3	3.6	0.5	1
4.6	1.1	23	2.9	4.2	0.5	<1
2.2	2.1	22	1.4	2.2	0.5	1
3.1	1.7	32	3.6	4.5	0.5	<1
3.1	1.6	18	2.2	3.0	0.5	<1
4.2	1.1	15	3.0	4.5	0.5	<1
3.5	1.8	22	2.6	3.9	0.5	<1
7.9	0.5	19	7.9	11.2	0.5	<1
4.7	0.5	20	3.2	4.3	0.5	<1
5.6	0.5	18	4.1	5.4	0.5	<1
2.7	0.5	18	1.7	2.6	0.5	<1
1.7	1.2	18	1.1	1.8	0.5	2
1.9	1.6	16	0.5	1.7	0.5	<1
3.2	1.0	18	2.8	3.4	0.5	<1
3.9	1.1	19.4	2.9	4.1	0.5	1.3

lanks		Laboratory Duplicates					
Chlorophyll-a (ug/L) Corrected	Chlorophyll-a (ug/L) Un-Corrected	Ortho-P (µg/L) Filtered	RPD	Total-P (µg/L)	RPD	Chlorophyll-a (ug/L) Corrected	RPD
0.5	0.5	1.0		32		2.0	
0.5	0.5	1.0		15		2.3	
0.5	0.5	1.4		18		4.0	
0.5	0.5	1.0		19		3.9	
0.5	0.5	1.0		22		3.3	
0.5	0.5	1.9		21		1.3	
0.5	0.5	1.6		20		2.6	
0.5	0.5	1.3		18		2.9	
0.5	0.5	0.5		17		3.1	
0.5	0.5	0.5		21		2.6	
0.5	0.5	0.5		16		6.2	
0.5	0.5	0.5		15		3.2	
0.5	0.5	0.5		16		3.3	
0.5	0.5	0.5		15		2.2	
0.5	0.5	1.4		20		1.4	
0.5	0.5	1.6		15		2.2	
0.5	0.5	1.0		16		2.9	
0.5	0.5	1.0	#DIV/0!	18.6	#DIV/0!	2.9	#DIV/0!

Chlorophyll-a (ug/L) Un-Corrected	Location
2.8	Twin B.
2.7	Turner B.
5.4	Upper N.
5.6	Lower N.
4.6	GIP 4
2.1	Deep Hole
3.2	Twin B.
3.5	Turner B.
4.9	Upper N.
4.4	Lower N.
7.8	GIP 4
4.3	Deep Hole
4.4	Twin B.
3.1	Turner B.
2.4	Upper N.
2.9	Lower N.
3.6	Deep Hole
4.0	

2007 Gulf Island Pond Water Quality Study
Beginning and End of Day Meter Verifications and Calibrations

Week 1: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	6/4/2007	14:05	7.6	23.7	y
YSI 85	6/4/2007	14:05	7.3	23.6	y
YSI 55	6/4/2007	14:05	7.5	23.7	y
Lab Thermometer	6/4/2007	14:05		23.5	

Week 1: After Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	6/6/2007	9:55	7.8	14.7	n
YSI 85	6/6/2007	9:55	7.5	14.7	n
YSI 55	6/6/2007	9:55	7.8	14.6	n
Lab Thermometer	6/6/2007	9:55		14.5	

Week 2: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	6/11/2007	9:45	8.3	15.4	y
YSI 85	6/11/2007	9:45	8.2	15.4	y
YSI 55	6/11/2007	9:45	8.4	15.2	y
Lab Thermometer	6/11/2007	9:45		15.5	

Week 2: After Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	6/13/2007	8:30	8.8	18.6	y
YSI 85	6/13/2007	8:30	8.8	18.5	y
YSI 55	6/13/2007	8:30	8.6	18.5	y
Lab Thermometer	6/13/2007	8:30		18.5	

Week 3: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	6/18/2007	16:00	7.2	27.4	y
YSI 85	6/18/2007	16:00	7.4	27.3	y
YSI 55	6/18/2007	16:00	7.3	27.3	y
Lab Thermometer	6/18/2007	16:00		27.5	

Week 3: After Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	6/19/2007	17:15	7.6	16.8	n
YSI 85	6/19/2007	17:15	7.6	16.9	n
YSI 55	turned off	turned off	turned off	turned off	n
Lab Thermometer	6/19/2007	17:15		17.0	

Week 4: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	6/25/2007	15:40	7.4	17.0	y
YSI 51B	6/25/2007	15:40	7.2	17.0	y
YSI 55	6/25/2007	15:40	7.2	16.8	y
Lab Thermometer	6/25/2007	15:40		17.0	

Week 4: After Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	6/26/2007	17:15	9.1	21.3	n
YSI 51B	6/26/2007	17:15	8.9	21.5	n
YSI 55	6/26/2007	17:15	9.0	20.7	n
Lab Thermometer	6/26/2007	17:15		21.5	

Week 5: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	7/2/2007	5:30	7.8	20.0	y
YSI 51B	7/2/2007	5:30	7.6	20.0	y
YSI 55	7/2/2007	5:30	ERROR	ERROR	ERROR
Lab Thermometer	7/2/2007				

Week 5: After Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated	
YSI 550A	7/2/2007	16:45	7.4	17.7	n	
YSI 51B	7/2/2007	16:45	7.3	17.5	n	
YSI 55	7/2/2007	ERROR	ERROR	ERROR	ERROR	Meter malfunction; s
Lab Thermometer	7/2/2007	16:45		17.5		

Week 6: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated	
YSI 550A	7/9/2007	16:40	9.3	18.2	y	
YSI 51B	7/9/2007	16:40	9.1	18.0	y	
YSI 55	7/9/2007	16:40	ERROR	18.0	y	YSI 55 sal. Set to 30ppm instead of 0ppm, reason for error
Lab Thermometer	7/9/2007	16:40		18.0		

Week 6: After Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	7/10/2007	17:50	7.4	18.5	n
YSI 51B	7/10/2007	17:50	7.4	18.5	n
YSI 55	7/10/2007	17:50	7.4	18.6	n
Lab Thermometer	7/10/2007	17:50		18.5	

Week 7: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	7/16/2007	13:10	7.5	18.9	y
YSI 51B	7/16/2007	13:10	7.6	18.8	y
YSI 55	7/16/2007	13:10	7.5	18.8	y
Lab Thermometer	7/16/2007	13:10		18.8	

Week 7: After Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	7/17/2007	17:30	8.5	23.0	n
YSI 51B	7/17/2007	17:30	8.6	23.0	n
YSI 55	7/17/2007	17:30	8.7	23.0	n
Lab Thermometer	7/17/2007	17:30		23.0	

Week 8: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	7/23/2007	15:15	7.5	23.8	y
YSI 51B	7/23/2007	15:15	7.6	23.8	y
YSI 55	7/23/2007	15:15	7.4	23.7	y

Week 8: After Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	7/24/2007	18:45	7.3	18.8	n
YSI 51B	7/24/2007	18:45	7.4	19.0	n
YSI 55	7/24/2007	18:45	7.4	19.0	n

Lab Thermometer	7/23/2007	15:15		23.9	

Week 9: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	7/30/2007	13:45	7.3	27.2	Y
YSI 51B	7/30/2007	13:45	7.0	27.0	Y
YSI 55	7/30/2007	13:45	7.1	27.0	Y
Lab Thermometer	7/30/2007	13:45		27.0	

Week 10: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	8/6/2007	15:15	7.0	22.9	y
YSI 51B	8/6/2007	15:15	7.0	22.8	y
YSI 55	8/6/2007	15:15	6.9	22.7	y
Lab Thermometer	8/6/2007	15:15		22.8	

Week 11: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	8/13/2007	14:30	8.4	22.8	y
YSI 51B	8/13/2007	14:30	8.5	22.8	y
YSI 55	8/13/2007	14:30	8.4	22.7	y
Lab Thermometer	8/13/2007	14:30		22.9	

Week 12: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	8/20/2007	15:05	9.5	18.5	y
YSI 51B	8/20/2007	15:05	9.3	18.7	y
YSI 55	8/20/2007	15:05	9.2	18.6	y
Lab Thermometer	8/20/2007	15:05		18.5	

Week 13: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	8/27/2007	14:15	8.3	23.9	y
YSI 51B	8/27/2007	14:15	8.3	23.7	y
YSI 55	8/27/2007	14:15	8.1	23.7	y
Lab Thermometer	8/27/2007	14:15		23.9	

Week 14: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	9/3/2007	16:20	7.3	19.1	y
YSI 51B	9/3/2007	16:20	7.1	19.2	y
YSI 55	9/3/2007	16:20	7.1	19.2	y
Lab Thermometer	9/3/2007	16:20		19.1	

Week 15: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	9/10/2007	15:10	7.8	20.2	y
YSI 51B	9/10/2007	15:10	ERROR	20.1	alt.malfunction
YSI 55	9/10/2007	15:10	7.6	20.1	y
Lab Thermometer	9/10/2007	15:10		20.1	

Week 16: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	9/17/2007	16:00	7.1	18.1	y
YSI 51B	9/17/2007	16:00	7.0	18.2	y
YSI 55	9/17/2007	16:00	7.0	18.1	y
Lab Thermometer	9/17/2007	16:00		18.1	

Lab Thermometer	7/24/2007	18:45		19.0	

Week 9: After Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	7/31/2007	18:00	7.6	26.1	n
YSI 51B	7/31/2007	18:00	7.6	26.1	n-alt. adjusted
YSI 55	7/31/2007	18:00	7.8	26.0	n
Lab Thermometer	7/31/2007	18:00		26.0	

Week 10: After Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	8/7/2007	17:15	6.8	22.0	n
YSI 51B	8/7/2007	17:15	6.6	22.0	n
YSI 55	8/7/2007	17:15	6.6	21.8	n
Lab Thermometer	8/7/2007	17:15		22.0	

Week 11: After Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	8/14/2007	18:00	8.6	21.7	n
YSI 51B	8/14/2007	18:00	ERROR	22.1	altitude malfunction
YSI 55	8/14/2007	18:00	8.6	21.6	n
Lab Thermometer	8/14/2007	18:00		21.8	

Week 12: After Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	8/21/2007	17:10	8.3	20.3	n
YSI 51B	8/21/2007	17:10	8.3	20.3	n
YSI 55	8/21/2007	17:10	8.6	20.1	n
Lab Thermometer	8/21/2007	17:10		20.2	

Week 13: After Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	8/28/2007	15:25	7.2	20.4	n
YSI 51B	8/28/2007	15:25	7.2	20.5	n
YSI 55	8/28/2007	15:25	7.2	20.4	n
Lab Thermometer	8/28/2007	15:25		20.5	

Week 14: After Sampling Event

Model	Date	Time	DOmg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	9/4/2007	17:00	8.5	19.6	n
YSI 51B	9/4/2007	17:00	8.6	19.8	y
YSI 55	9/4/2007	17:00	8.8	19.6	n
Lab Thermometer	9/4/2007	17:00		19.8	

Week 15: After Sampling Event

Model	Date	Time	DOmg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	9/11/2007	16:45	9.0	18.4	n
YSI 51B	9/11/2007	16:45	ERROR	18.5	altitude malfunction
YSI 55	9/11/2007	16:45	8.9	18.4	n
Lab Thermometer	9/11/2007	16:45		18.5	

Week 16: After Sampling Event

Model	Date	Time	DOmg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	9/18/2007	17:30	9.7	16.9	n
YSI 51B	9/18/2007	17:30	ERROR	16.8	alt.malfunction
YSI 55	9/18/2007	17:30	9.7	16.7	n
Lab Thermometer	9/18/2007	17:30		16.8	

Week 17: Before Sampling Event

Model	Date	Time	DO (mg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	9/24/2007	15:20	7.0	18.4	y
YSI 51B	9/24/2007	15:20	ERROR	18.5	alt.malfunction
YSI 55	9/24/2007	15:20	7.2	18.5	y-2x
Lab Thermometer	9/24/2007	15:20		18.5	

Week 18: After Sampling Event

Model	Date	Time	DOmg/L)	Temp.(°C)	Meter Calibrated
YSI 550A	9/25/2007	17:25	8.7	19.6	n
YSI 51B	9/25/2007	17:25	ERROR	ERROR	alt.malfunction
YSI 55	9/25/2007	17:25	8.5	19.5	n
Lab Thermometer	9/25/2007	17:25		19.5	

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

Week 1 AM: 06/05/2007
River Flow (Jay, Maine): 15,113 cfs
Weather: Sunny , Occasional haze
Air Temperature: 65-70 deg. F (18- 20 deg. C)
Comments: Water has a yellow- brown tint at all sites, slight SW breeze , pond relatively calm. Cloudy early AM, sunny late A
Profiling extended beyond 8:00 am due to a trailer malfunction. Diffuser not runnin

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	7:40	8.2	17.0	n
YSI 85	Comparison	7:40	8.1	16.8	n
YSI 55	Twin Bridges	7:40	8.2	17.0	n

AM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	9:45	9.0	16.5	n
YSI 85	Comparison	9:45	8.8	16.7	n
YSI 55	Twin Bridges	9:45	9.0	16.6	n

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			9.0	16.2	8.8	16.7	8.5	16.9	7.7	17.4	8.0	17.4
1			8.9	16.1	8.8	16.3	8.5	16.8	7.7	17.4	7.9	17.4
2			9.0	16.1	8.8	16.2	8.6	16.7	7.7	17.3	8.0	17.3
3			8.9	16.1	8.7	16.2	8.5	16.6	7.6	17.3	7.9	17.3
4			8.9	16.0	8.7	16.2	8.6	16.6	7.9	17.3	7.9	17.3
5			9.0	16.0	8.7	16.2	8.5	16.6	7.7	17.3	8.0	17.3
6			8.9	16.0	8.8	16.2	8.5	16.6	7.6	17.3	8.1	17.3
7			8.9	16.0	8.7	16.2	8.5	16.5	8.0	17.2	8.0	17.3
8			8.9	16.0	8.5	16.2	8.5	16.5	8.0	17.2	8.1	17.3
9			8.9	16.0	8.5	16.2	8.4	16.5	8.0	17.1	8.0	17.3
10			9.0	16.0	8.5	16.2	8.5	16.5	8.0	17.0	8.1	17.3
11			8.9	16.0	8.4	16.2	8.5	16.5	8.1	17.0	8.0	17.3
12			8.9	16.0			8.5	16.5	8.0	17.0	8.1	17.3
13			8.9	16.0			8.5	16.4	8.1	16.9	7.9	17.3
14							8.5	16.4	8.0	16.7	8.0	17.2
15									8.0	16.6	8.0	17.2
16									8.0	16.7	8.0	17.2
17									8.0	16.6	7.9	17.2
18									7.8	16.7	7.9	17.2
19											7.9	17.2
20											6.9	14.4
21											6.4	12.2
22											6.1	11.9
23											5.2	11.8
24												
25			8.9	16.0	8.7	16.3	8.5	16.6	7.9	17.1	7.7	16.5

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

Week 1 PM: 06/05/2007
River Flow (Jay, Maine): 15,113 cfs
Weather: Cloudy , breezy
Air Temperature: 65 deg. F (18.15 deg. C)
Comments: Cloudy, swift SW breeze, pond excessively choppy. Diffuser not running.
DNS: Did not sample due to excessive wind

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	12:55	8.9	17.8	n
YSI 85	Comparison	12:55	8.7	17.8	n
YSI 55	Twin Bridges	12:55	8.9	17.6	y

PM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	15:00	8.9	17.6	n
YSI 85	Comparison	15:00	8.8	17.8	n

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Deep Hole		Dup. -Turner Bridge	
	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	9.6	16.3	9.1	16.8	8.9	17.8	8.5	18.8	8.1	19.0	8.3	19.4	DNS	DNS
1			9.1	16.7	8.9	17.3	8.5	18.5	8.3	18.5	8.1	18.9	DNS	DNS
2			9.2	16.7	8.9	17.0	8.6	18.5	8.2	18.4	8.1	17.6	DNS	DNS
3			9.1	16.7	8.9	16.7	8.7	18.3	8.2	17.5	8.1	17.4	DNS	DNS
4			9.2	16.7	8.9	16.5	8.7	18.1	8.4	17.2	8.0	17.4	DNS	DNS
5			9.2	16.7	8.8	16.5	8.7	17.5	8.3	17.1	8.0	17.3	DNS	DNS
6			9.2	16.6	8.9	16.4	8.7	17.2	8.3	17.1	7.8	17.3	DNS	DNS
7			9.2	16.6	8.7	16.4	8.8	16.7	8.4	17.0	8.2	17.3	DNS	DNS
8			9.2	16.6	8.8	16.4	8.8	16.6	8.4	17.0	7.9	17.3	DNS	DNS
9			9.2	16.6	8.7	16.4	8.8	16.6	8.4	17.0	8.2	17.3	DNS	DNS
10			9.2	16.6			8.8	16.5	8.3	17.0	8.1	17.3	DNS	DNS
11			9.2	16.6			8.9	16.4	8.3	16.9	8.0	17.3	DNS	DNS
12							8.8	16.4	8.2	16.8	8.2	17.2	DNS	DNS
13							8.8	16.4	8.3	16.8	8.2	17.2	DNS	DNS
14							8.8	16.4	8.3	16.7	8.2	17.2	DNS	DNS
15							8.8	16.4	8.4	16.7	8.3	17.1	DNS	DNS
16							8.8	16.4	8.3	16.5	8.2	17.0	DNS	DNS
17									8.3	16.4	8.2	16.9	DNS	DNS
18									8.2	16.4	8.3	16.9		
19											8.1	16.9		
20											8.2	16.9		
21											8.2	16.8		
22											8.2	16.8		
23											8.1	16.7		
24														
25			9.2	16.7	8.8	16.7	8.7	17.2	8.3	17.2	8.1	17.3		

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

Week 2 AM: 06/12/2007
River Flow (Jay, Maine): 5,343 cfs
Weather: Mostly cloudy with occasional showers, slight NW breeze
Air Temperature: 55- 65 deg. F (13-18 deg. C)
Comments: Large amounts of pollen in water and air. Pond relatively calm early AM, rough late AM. Diffuser not running.

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	4:58	9.3	19.1	n
YSI 85	Comparison	4:58	9.1	18.9	n
YSI 55	Twin Bridges	4:58	9.2	18.9	n

AM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	7:53	8.9	19.9	n
YSI 85	Comparison	7:53	8.7	19.7	n
YSI 55	Twin Bridges	7:53	8.9	19.7	n

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	9.3	19.0	8.9	19.8	9.0	18.8	9.1	18.8	9.0	18.2	9.1	18.4
1			8.8	19.8	9.0	18.8	8.9	18.8	8.9	18.2	9.1	18.4
2			8.9	19.8	8.9	18.8	8.9	18.7	9.0	18.2	9.1	18.4
3			8.9	19.8	9.0	18.8	8.8	18.6	8.9	18.2	9.1	18.3
4			8.9	19.8	8.9	18.8	8.9	18.6	8.9	18.2	9.0	18.3
5			8.9	19.8	8.8	18.5	8.8	18.6	8.9	18.1	9.0	18.3
6			8.9	19.7	8.6	18.3	8.9	18.6	8.8	18.0	9.0	18.3
7			8.7	19.7	8.1	17.8	8.8	18.5	8.9	17.8	8.9	18.1
8			8.7	19.7	7.7	16.4	8.4	16.9	9.0	17.5	8.8	18.0
9			8.8	19.7			8.3	16.6	8.9	17.3	8.8	17.4
10			8.5	19.6			7.9	16.5	8.8	16.8	8.8	17.2
11			8.3	19.6			7.9	16.4	8.7	16.7	8.7	17.0
12			8.3	19.6			8.1	16.3	8.7	16.6	8.7	17.0
13							7.5	16.3	8.7	16.4	8.7	16.7
14							7.4	16.2	8.7	16.3	8.6	16.7
15									8.6	16.2	8.6	16.5
16									8.6	16.1	8.6	16.4
17									8.0	16.1	8.5	16.3
18									7.3	15.8	8.2	16.2
19											8.2	16.2
20											8.2	16.2
21											8.0	16.1
22											7.7	16.0
23											6.7	15.4
24											0.0	15.1
25			8.7	19.7	8.7	18.3	8.4	17.6	8.7	17.2	8.2	17.1

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

Week 2 PM: 06/12/2007
River Flow (Jay, Maine): 5343 cfs
Weather: Cloudy, windy early PM; sunny, slight NW breeze mid PM
Air Temperature: 65-70 deg. F (18-21 deg. C)
Comments: Large amounts of pollen in air and water. Pond rough early PM, relatively calm mid-PM. Diffuser not running.

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	10:45	8.9	20.1	n
YSI 85	Comparison	10:45	8.9	20.1	n
YSI 55	Twin Bridges	10:45	8.6	19.9	n

PM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	14:35	8.8	20.7	n
YSI 85	Comparison	14:35	8.6	20.8	n

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Deep Hole		Dup- Turner Bridge	
	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. (oC)	DO (mg/L)	Temp. (°C)
0	8.9	19.1	8.9	20.4	9.1	19.7	9.0	19.7	9.0	18.7	9.6	19.1	8.9	20.4
1			8.9	20.2	8.9	19.4	9.0	19.1	9.1	18.6	9.2	19.1	9.0	20.1
2			8.8	20.1	8.8	19.0	9.0	18.9	8.9	18.5	9.2	18.9	8.8	20.1
3			8.8	20.0	8.7	18.9	8.9	18.9	9.0	18.5	9.1	18.7	8.9	20.0
4			8.9	20.0	8.8	18.8	8.9	18.7	8.7	18.3	9.0	18.6	8.8	20.0
5			8.8	20.0	8.7	18.8	8.8	18.7	9.0	18.2	9.0	18.6	8.9	20.0
6			8.8	20.0	8.5	18.4	8.7	18.6	8.8	18.2	8.9	18.4	8.8	20.0
7			8.7	20.0	8.3	17.0	8.6	17.9	8.9	18.0	8.7	18.3	8.8	20.0
8			8.8	20.0	7.3	16.4	8.2	17.5	8.9	17.9	8.8	18.1	8.7	20.0
9			7.2	20.0			8.3	16.9	9.0	17.8	8.9	18.0	8.3	19.9
10			7.3	20.0			8.4	16.5	9.0	17.5	8.6	17.3	7.1	19.9
11			7.1	20.0			8.4	16.3	8.9	16.8	8.8	17.1	7.0	19.9
12			7.1	20.0			8.4	16.2	8.5	16.5	8.9	16.9	7.0	19.9
13			7.0	19.9			7.8	16.2	8.6	16.4	8.8	16.8	7.2	19.9
14			7.1	20.0					8.6	16.3	8.7	16.6	7.1	19.9
15									8.3	16.2	8.6	16.5		
16									8.3	16.1	8.5	16.4		
17									8.1	16.0	8.6	16.4		
18									7.1	15.8	8.6	16.3		
19											8.3	16.2		
20											8.2	16.1		
21											8.1	16.1		
22											7.8	16.0		
23											6.5	15.4		
24											5.2	15.1		
25			8.1	20.0	8.6	18.5	8.6	17.9	8.7	17.4	8.5	17.2		

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

Week 3 AM: 06/19/2007
River Flow (Jay, Maine): 3320 cfs
Weather: Sunny, with slight breeze in the afternoo
Air Temperature: 65 deg. F (18 deg. C)
Comments: Green particles on surface and in column at low to medium-low density, present at every site except Turner Bridge. Most dense at Deep Hole and GIP Diffuser running at full strengt

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	5:00	7.2	21.6	n
YSI 85	Comparison	5:00	7.3	21.4	n
YSI 55	Twin Bridges	5:00	7.0	21.4	n

AM Meter Verification After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	8:00	7.5	21.8	n
YSI 85	Comparison	8:00	7.5	21.6	n
YSI 55	Twin Bridges	8:00	7.6	21.6	n

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	8.2	21.0	7.2	21.7	7.9	21.7	7.5	21.5	7.1	21.6	7.4	21.7
1			7.0	21.7	7.8	21.7	7.4	21.5	7.1	21.6	7.3	21.7
2			7.0	21.7	7.8	21.6	7.5	21.5	6.9	21.6	7.4	21.7
3			7.1	21.7	7.4	21.6	7.5	21.5	7.0	21.6	7.0	21.7
4			7.1	21.7	7.4	21.6	7.5	21.5	7.1	21.6	7.2	21.7
5			7.1	21.7	7.1	21.5	7.5	21.5	7.1	21.5	7.2	21.7
6			7.1	21.7	7.1	21.4	7.4	21.5	7.1	21.5	7.3	21.7
7			7.1	21.7	6.4	20.8	7.2	21.5	7.1	21.5	7.2	21.7
8			7.1	21.7	5.2	19.6	6.9	21.1	6.7	21.4	6.9	21.3
9			6.5	21.7	0.2	19.4	6.3	20.6	6.6	20.9	7.0	21.2
10			6.5	21.7			5.9	20.2	6.5	20.3	6.5	20.2
11			6.5	21.7			5.9	19.7	6.3	19.7	6.1	19.9
12							5.6	19.6	6.0	19.5	5.8	19.6
13							3.5	17.6	5.8	19.5	5.8	19.4
14							0.1	16.5	5.8	19.4	5.7	19.3
15							0.1	16.5	5.4	19.2	5.7	19.2
16									4.8	18.8	5.7	19.1
17									4.8	18.6	5.3	18.8
18											4.7	18.4
19											4.2	17.7
20											4.1	16.3
21											3.9	16.0
22											3.6	15.9
23											0.5	15.7
24											0.1	15.4
25			6.9	21.7	6.4	21.1	5.9	20.2	6.4	20.5	5.6	19.5

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

Week 3 PM: 06/19/2007
River Flow (Jay, Maine): 3320 cfs
Weather: Sunny with a slight breeze in the early pm, water slightly chop
Air Temperature: 70 deg. F (21 deg. C)
Comments: Green particles on surface and in column at low to medium-low density, present at every site except Turner Bridge. Most dense at Deep Hole and GIP Diffuser running full strength

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	10:40	7.6	22.4	n
YSI 85	Comparison	10:40	7.6	22.4	n
YSI 55	Twin Bridges	10:40	7.7	22.2	n

PM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	17:15	7.6	16.8	n
YSI 85	Comparison	17:15	7.6	16.9	n

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Deep Hole		Dup-Upper Narrows	
	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	8.0	21.7	8.1	23.3	8.5	23.3	8.4	23.4	8.6	23.1	8.5	23.6	8.6	23.2
1			8.0	23.2	8.6	23.2	8.2	23.1	8.6	23.0	8.7	23.4	8.6	23.2
2			7.9	23.6	8.3	22.7	8.3	22.3	8.5	22.0	8.5	22.3	8.3	22.6
3			7.7	22.5	8.1	21.9	8.2	21.8	8.1	21.8	8.3	21.8	8.0	21.9
4			7.7	22.4	8.4	21.7	8.1	21.7	8.2	21.7	8.2	21.7	8.2	21.7
5			7.7	22.3	8.1	21.6	8.1	21.6	7.9	21.6	8.0	21.7	8.2	21.6
6			7.7	22.2	8.0	21.5	8.0	21.6	8.0	21.6	7.9	21.6	8.0	21.5
7			7.6	22.1	7.6	21.3	8.0	21.5	7.8	21.5	8.0	21.6	6.8	21.0
8			7.7	22.0	5.3	19.5	7.7	21.3	7.9	21.5	7.8	21.4	5.2	19.5
9			7.6	22.0	4.3	19.4	7.6	21.3	7.7	21.3	7.5	21.1	1.5	19.4
10			6.2	22.0			7.3	21.0	6.7	20.4	7.2	20.8		
11			6.3	22.0			6.8	20.6	6.1	19.9	6.7	20.0		
12			6.1	22.0			4.7	19.4	6.1	19.7	6.3	19.6		
13							3.7	17.1	5.8	19.5	6.3	19.5		
14							0.1	16.7	5.9	19.3	6.3	19.5		
15									5.9	19.3	6.3	19.5		
16									5.6	19.0	6.2	19.2		
17									4.5	18.5	5.8	18.9		
18									0.1	16.5	5.2	18.5		
19											4.5	17.6		
20											4.6	16.4		
21											4.3	16.0		
22											4.0	15.8		
23											3.6	15.7		
24											2.2	15.4		
25			7.4	22.4	7.5	21.6	6.9	21.0	6.7	20.6	6.4	19.7		

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

Week 4 AM: 06/26/2007
River Flow (Jay, Maine): 2856 cfs
Weather: Partly to mostly cloudy,slight breeze out of SW.
Air Temperature:70 deg. F (21 deg. C)
Comments: Particle density at Deep Hole medium-low; low density at GIP-4, Lower Narrows, and Upper Narrows. Particle density very low at Turner Bridge.
Pond relatively calm , buoy possibly moved at Lower Narrows, reset after PM sampling. Diffuser running at full strength.

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	5:30	8.3	20.4	y
YSI 51B	Comparison	5:30	8.3	20.2	y
YSI 55	Twin Bridges	5:30	8.4	20.2	y

AM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	8:15	7.8	21.6	n
YSI 51B	Comparison	8:15	7.6	21.5	n
YSI 55	Twin Bridges	8:15	7.8	21.4	n

*****YSI 51B is being used until YSI 85 is in working order *

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	8.3	20.4	8.2	21.5	8.1	22.5	7.8	22.6	7.2	22.5	7.2	21.9
1			8.2	21.5	8.1	22.4	7.8	22.5	6.9	22.3	7.2	21.9
2			8.2	21.3	8.2	22.3	7.6	22.2	7.1	22.2	7.1	21.9
3			8.1	21.3	8.2	21.7	7.5	22.1	6.9	22.0	6.9	21.6
4			8.1	21.3	8.6	21.4	8.0	22.0	7.0	21.7	7.1	21.5
5			8.1	21.2	9.1	21.3	8.2	21.7	7.1	21.6	7.4	21.5
6			8.1	21.2	8.8	21.2	8.4	21.6	7.6	21.6	7.1	21.4
7			8.1	21.2	8.8	21.1	7.8	21.3	7.6	21.4	6.8	21.4
8			8.1	21.2	6.6	21.1	7.8	21.3	7.4	21.3	6.6	21.3
9			7.8	21.2			8.1	21.2	6.7	21.2	6.5	21.2
10			7.3	21.2			8.0	21.2	6.6	21.2	6.5	21.2
11			7.4	21.2			7.8	21.0	6.6	21.1	6.1	21.2
12			7.2	21.1			7.5	20.9	6.7	21.0	6.2	21.1
13							6.4	20.9	6.8	20.9	6.4	21.1
14									7.5	20.9	7.1	21.1
15									7.5	20.9	7.1	21.0
16									6.9	20.8	6.7	21.0
17									6.0	20.8	6.1	20.9
18											5.2	20.7
19											2.6	18.8
20											2.0	16.4
21											2.0	15.9
22											1.7	15.7
23											0.8	15.5
24												
25			7.9	21.3	8.3	21.7	7.8	21.6	7.0	21.4	5.7	20.3

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

Week 4 PM: 06/26/2007
River Flow (Jay, Maine): 2856 cfs
Weather: Hot, sunny, sw breeze intermittently strong
Air Temperature:85 deg. F (30 deg. C)
Comments: Particle density at Deep Hole medium-low; low density at GIP-4, Lower Narrows, and Upper Narrows. Particle density very low at Turner Bridge.
Pond relatively choppy, buoy possibly moved at Lower Narrows, reset after PM sampling. Diffuser running at full strength.

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	10:35	8.0	22.7	n
YSI 51B	Comparison	10:35	8.0	22.5	n
YSI 55	Twin Bridges	10:35	7.9	22.5	n

PM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	14:35	8.7	24.5	n
YSI 51B	Comparison	14:35	8.5	24.5	alt. adjusted

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Deep Hole		Dup- Lower Narrows	
	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	8.6	20.6	8.8	23.5	8.3	24.0	8.1	24.4	7.9	24.1	7.8	23.9	8.2	24.2
1			8.7	23.1	8.5	23.7	8.2	24.1	7.6	23.9	7.6	23.5	8.2	23.7
2			8.6	21.8	8.6	22.9	8.6	22.5	7.7	22.5	7.6	22.2	8.5	22.1
3			8.5	21.2	9.4	21.8	8.4	22.1	8.0	21.7	7.1	21.8	8.5	22.0
4			8.5	21.1	9.7	21.5	8.6	22.0	8.1	21.6	7.0	21.6	8.6	21.9
5			8.4	21.1	9.4	21.4	8.7	21.8	8.3	21.5	7.0	21.5	8.7	21.6
6			8.4	21.0	9.7	21.3	8.7	21.5	8.1	21.4	7.5	21.4	8.7	21.3
7			8.4	21.0	9.6	21.2	8.8	21.3	8.1	21.4	7.2	21.4	8.8	21.2
8			8.3	21.0			8.8	21.2	8.0	21.4	7.4	21.3	8.6	21.2
9			7.8	21.0			8.7	21.2	7.3	21.3	7.3	21.3	8.7	21.2
10			7.7	21.0			8.7	21.2	7.0	21.2	7.3	21.2	8.6	21.2
11			7.8	21.0			8.7	21.2	7.2	21.2	7.6	21.2	8.5	21.1
12			7.7	21.0			8.5	21.1	7.3	21.1	7.5	21.1	8.2	21.0
13							8.3	21.0	7.1	21.0	7.7	21.1	7.7	20.8
14									7.4	21.0	7.4	21.1		
15									7.3	20.9	7.6	21.0		
16									7.3	20.8	7.6	21.0		
17									6.8	20.7	7.1	20.9		
18											5.7	20.7		
19											2.8	19.3		
20											2.3	16.2		
21											2.3	15.9		
22											1.3	15.6		
23											0.3	15.3		
24														
25			8.3	21.4	9.2	22.2	8.6	21.9	7.6	21.6	6.2	20.5		

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	7.6	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	8.3	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			5.5	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	23.2
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			6.2	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		

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

AM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	8:15	7.2	20.4	n
YSI 51B	Comparison	8:15	7.0	20.2	n
YSI 55	Twin Bridges	8:15	7.0	20.1	n

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	8.0	19.5	7.4	20.6	8.1	21.4	7.1	21.8	7.1	21.9	6.7	21.9
1			7.2	20.6	8.2	21.4	6.9	21.8	6.9	21.9	6.5	21.9
2			7.1	20.6	8.1	21.4	7.1	21.8	7.0	21.9	6.5	22.0
3			7.2	20.6	8.1	21.4	7.3	21.8	7.0	21.9	6.6	22.0
4			7.1	20.6	8.1	21.4	7.3	21.8	7.0	21.9	6.7	22.0
5			7.2	20.6	8.0	21.4	7.2	21.8	7.0	21.9	6.7	22.0
6			7.2	20.6	7.6	21.2	7.2	21.8	7.2	21.9	6.7	22.0
7			7.1	20.6	7.4	21.1	7.2	21.8	7.1	21.9	6.4	22.0
8			6.3	20.6			7.2	21.7	6.9	21.9	6.3	22.0
9			6.2	20.6			7.3	21.7	7.0	21.9	6.3	22.0
10			6.1	20.6			7.4	21.7	7.0	21.9	6.4	22.0
11			6.1	20.6			7.4	21.7	6.8	21.9	6.6	22.0
12							7.6	21.6	6.9	21.9	6.6	22.0
13							7.7	21.6	6.8	21.9	6.6	22.0
14							7.7	21.6	6.9	21.8	6.4	22.0
15									6.9	21.8	5.7	21.9
16									6.1	21.8	4.9	21.8
17									5.8	21.8	4.9	21.8
18											4.9	21.8
19											3.0	21.2
20											0.2	17.2
21											0.0	15.9
22											0.0	15.3
23											0.0	14.9
24											0.0	14.7
25			6.9	20.6	8.0	21.3	7.3	21.7	6.9	21.9	4.9	20.7

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

PM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	15:15	7.8	22.4	n
YSI 51B	Comparison	15:15	7.5	22.5	n

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Deep Hole		Dup-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	8.0	19.9	7.8	22.3	8.3	23.1	7.3	23.5	7.2	23.2	7.0	23.2	7.1	23.3
1			7.9	22.2	8.1	22.7	7.4	23.0	7.2	22.7	6.7	22.4	6.9	22.7
2			7.5	20.8	8.5	21.7	7.3	22.1	7.2	22.2	6.7	22.1	6.6	22.1
3			7.4	20.7	8.2	21.3	7.2	21.8	7.3	22.0	6.7	22.0	6.4	22.0
4			7.4	20.7	8.4	21.3	7.3	21.8	7.3	22.0	6.7	22.0	6.5	22.0
5			7.3	20.7	8.6	21.2	7.4	21.7	7.2	22.0	6.7	22.0	6.9	22.0
6			7.4	20.7	8.7	21.2	7.5	21.7	7.2	22.0	6.8	22.0	6.3	22.0
7			7.4	20.7	8.7	21.2	7.4	21.7	7.1	21.9	6.7	22.0	6.4	22.0
8			7.4	20.7	0.1	21.2	7.3	21.7	7.2	21.9	6.6	22.0	6.6	21.9
9			6.7	20.7			7.5	21.7	7.2	21.9	6.7	22.0	6.5	21.9
10			6.8	20.6			7.7	21.6	7.1	21.9	6.9	22.0	6.3	21.9
11			6.8	20.6			7.7	21.6	7.0	21.8	6.9	21.9	6.8	21.9
12			6.9	20.6			7.7	21.6	6.9	21.8	6.6	21.9	6.6	21.9
13							0.0	21.5	6.9	21.7	6.3	21.9	6.2	21.8
14									6.8	21.7	6.2	21.9	6.2	21.8
15									6.7	21.7	6.0	21.9	6.2	21.8
16									6.8	21.7	5.8	21.8	5.9	21.8
17									6.3	21.7	5.5	21.8	5.4	21.7
18											4.7	21.7	4.6	21.5
19											1.7	21.8	1.5	20.4
20											0.1	17.2	0.0	17.1
21											0.0	15.7	0.0	15.5
22											0.0	15.2	0.0	15.1
23											0.0	15.0	0.0	14.9
24											0.0	14.7	0.0	14.8
25			7.3	20.9	7.5	21.7	6.9	21.9	7.0	22.0	5.0	20.7		

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

Week 7 AM: 7/17/2007
River Flow (Jay, Maine): 3,261 cfs
Weather: Partly cloudy early AM, sunny late AM
Air Temperature: 60-70 deg. F (16-20 deg. C)
Comments: Pond calm; water very turbid (recent 100-yr storm on 7/11). Bubbles rising over entire pond. No green tint or particles observable a
sample sites except Upper Narrows (medium-low density top 1/4 of column). Diffuser running full strengt

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	5:30	8.1	21.0	n
YSI 51B	Comparison	5:30	7.9	21.0	n
YSI 55	Twin Bridges	5:30	8.0	21.0	n

AM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	9:30	7.3	22.3	n
YSI 51B	Comparison	9:30	7.2	22.2	y
YSI 55	Twin Bridges	9:30	7.3	22.4	n

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	8.1	21.0	7.5	22.6	7.6	23.7	7.4	23.4	7.4	22.9	7.6	22.2
1			7.5	22.0	7.3	23.4	7.1	23.2	7.5	22.9	7.2	22.4
2			7.5	21.9	7.1	23.3	7.2	23.1	7.0	22.6	7.0	22.4
3			7.4	21.8	7.0	22.8	7.1	23.0	6.4	22.3	6.9	22.3
4			7.4	21.8	7.1	21.8	7.0	22.7	6.6	22.2	6.8	22.1
5			7.4	21.8	6.9	21.5	7.0	22.2	6.7	22.1	6.6	22.1
6			7.4	21.7	7.0	21.4	7.1	21.8	6.4	22.0	6.6	21.9
7			7.2	21.7	6.3	21.4	6.8	21.5	6.2	21.9	6.5	21.9
8			6.8	21.7	0.1	21.3	6.6	21.4	6.1	21.7	6.4	21.7
9			6.8	21.7			6.3	21.3	5.9	21.5	6.6	21.6
10			6.7	21.7			6.4	21.3	6.0	21.3	6.5	21.6
11			6.4	21.7			6.4	21.3	6.4	21.3	6.8	21.4
12							6.2	21.3	6.4	21.2	6.5	21.3
13							0.1	21.1	6.3	21.2	6.4	21.3
14									6.1	21.1	6.4	21.3
15									5.9	21.1	6.3	21.3
16									6.1	21.1	6.2	21.2
17									5.9	21.0	6.1	21.1
18											6.0	21.1
19											6.0	21.1
20											5.5	21.0
21											0.1	17.7
22											0.0	15.2
23											0.0	14.5
24											0.0	14.3
25			7.2	21.8	6.3	22.3	6.3	22.0	6.4	21.7	5.5	20.6

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

Week 7 PM: 07/17/2007
River Flow (Jay, Maine): 3,261 cfs
Weather: Sunny and hot with a slight south west breeze towards GIP-4 and Deep hole
Air Temperature:75-80 deg. F (24-26 deg. C)
Comments: Pond somewhat rough due to intermittent SW breeze; water very turbid (recent 100-yr storm on 7/11). Bubbles rising over entire pond. No green tint or particles observable
sample sites except Upper Narrows (medium-low density top 1/4 of column). Diffuser running full strength.

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	12:00	7.8	23.6	n
YSI 51B	Comparison	12:00	7.6	23.8	n
YSI 55	Twin Bridges	12:00	7.6	23.6	n

PM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	14:45	7.8	24.7	n
YSI 51B	Comparison	14:45	8.0	24.9	y

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	8.0	22.8	8.0	24.7	7.6	26.2	8.1	25.3	8.1	25.4	8.1	25.0
1			7.8	23.8	7.7	26.0	7.7	23.6	8.1	23.2	8.3	23.2
2			7.6	22.6	7.6	23.2	7.6	23.2	7.5	22.6	7.4	22.6
3			7.5	22.3	7.6	22.4	7.5	22.8	7.4	22.4	7.4	22.4
4			7.5	22.2	7.9	21.8	6.9	22.5	7.1	22.2	7.0	22.2
5			7.5	22.2	7.7	21.7	7.5	22.3	7.1	22.1	7.0	22.1
6			7.5	22.1	7.6	21.7	7.4	21.8	7.1	22.1	7.0	22.0
7			7.5	22.0	7.5	21.6	7.3	21.7	7.1	21.9	6.9	21.8
8			7.1	21.9			7.0	21.4	6.6	21.7	6.9	21.7
9			6.0	21.9			6.6	21.3	6.3	21.5	7.0	21.6
10			6.7	21.9			6.6	21.3	6.4	21.4	6.9	21.5
11			6.3	21.9			6.6	21.3	6.6	21.3	6.8	21.5
12							6.4	21.3	6.6	21.2	6.6	21.4
13							5.9	21.3	6.4	21.2	6.5	21.3
14							6.1	21.1	6.4	21.2	6.6	21.2
15									6.3	21.1	6.7	21.2
16									6.1	21.1	6.6	21.2
17									6.2	21.0	6.5	21.1
18											6.3	21.1
19											6.3	21.1
20											6.1	21.0
21											0.0	17.4
22											0.0	15.3
23											0.0	14.8
24											0.0	14.4
25			7.3	22.5	7.7	23.1	7.0	22.1	6.9	21.9	5.8	20.8

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 rai
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 on surface at Lower Narrow
and GIP-4; particles at medium low density in column and on surface at Deep Hole. Diffuser running full strengt

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

AM Meter Verification (After Sampling)					
Model	**Use**	**Time**	**DO(mg/L)**	**Temp. (°C)**	**Calibrated**
YSI 550A	Primary	8:10	7.3	22.3	n
YSI 85	Comparison	8:10	7.0	22.2	n
YSI 55	Twin Bridges	8:10	7.0	22.1	n

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	8.0	21.6	7.4	22.2	7.6	22.6	7.3	23.1	7.2	23.1	7.0	23.0
1			7.3	22.3	7.4	22.6	7.4	23.1	6.9	23.2	7.0	23.0
2			7.5	22.3	7.6	22.3	7.6	22.9	7.0	23.2	7.1	23.0
3			7.5	22.3	7.8	22.3	7.9	22.7	6.6	22.9	7.0	23.0
4			7.5	22.3	7.8	22.2	7.8	22.6	6.1	22.7	6.9	23.0
5			7.3	22.3	7.4	22.2	7.8	22.5	6.1	22.6	6.3	22.8
6			7.3	22.2	7.2	22.2	7.7	22.5	6.2	22.5	5.9	22.5
7			7.3	22.2	7.2	22.1	7.7	22.4	6.4	22.5	5.9	22.5
8			7.3	22.2	0.1	21.9	7.5	22.3	6.6	22.4	6.1	22.4
9			7.3	22.2			7.5	22.3	6.7	22.3	6.4	22.3
10			6.9	21.9			6.7	22.1	6.4	22.2	6.5	22.3
11							5.8	22.0	5.7	22.2	6.5	22.2
12							5.6	22.0	5.7	22.1	6.5	22.1
13							5.5	21.9	5.9	22.1	6.1	22.1
14							0.1	21.7	5.9	22.0	5.6	22.0
15									5.7	22.0	5.1	22.0
16									4.8	21.9	4.5	21.9
17									4.0	21.8	3.7	21.8
18											2.7	21.4
19											1.0	20.8
20											0.1	18.5
21											0.0	15.9
22											0.0	15.0
23											0.0	14.9
24											0.0	14.8
25			7.3	22.2	6.7	22.3	6.7	22.4	6.1	22.4	4.6	21.0

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

Week 8 PM: 07/24/2007
River Flow (Jay, Maine): 2,653 cfs
Weather: Sunny, SW breeze increasing through afternoo
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 column and on surface at Lower Narrow
and GIP-4; particles at medium low density in column and on surface at Deep Hole. Diffuser running full-strength.

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

PM Meter Verification: After Sampling					
Model	**Use**	**Time**	**DO(mg/L)**	**Temp. (°C)**	**Calibrated**
YSI 550A	Primary	16:35	8.0	24.0	n
YSI 51B	Comparison	16:35	8.0	24.1	n alt-adjusted

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Deep Hole		Dup - Turner Bridge	
	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	7.5	21.9	8.0	24.1	8.7	24.5	8.1	24.9	7.7	24.9	7.8	24.8	8.1	24.0
1			7.8	23.9	8.6	24.2	8.2	24.4	7.4	24.3	7.4	23.9	7.9	23.9
2			7.6	22.7	8.3	22.9	7.8	22.7	6.9	23.0	7.2	23.2	7.7	22.8
3			7.5	22.3	8.2	22.3	7.6	22.6	6.5	22.8	7.1	23.1	7.5	22.3
4			7.5	22.3	8.3	22.2	7.8	22.6	6.4	22.7	6.7	23.0	7.5	22.2
5			7.5	22.2	8.3	22.2	7.6	22.5	6.0	22.6	6.6	22.7	7.5	22.2
6			7.5	22.2	8.3	22.1	7.7	22.4	6.6	22.5	6.2	22.4	7.3	22.2
7			7.4	22.2	8.1	22.1	8.0	22.3	6.5	22.5	6.5	22.4	7.4	22.2
8			7.3	22.2			8.0	22.2	6.4	22.3	6.4	22.4	7.3	22.2
9			5.6	22.2			7.9	22.2	6.3	22.2	6.7	22.3	6.7	22.2
10			4.3	22.2			7.8	22.2	6.2	22.2	6.4	22.3	6.3	22.2
11			4.0	22.2			7.5	22.2	6.1	22.1	6.7	22.3	4.1	22.1
12							6.5	22.0	6.8	22.1	6.6	22.2		
13							6.0	21.9	6.5	22.1	6.5	22.2		
14							4.6	21.8	6.4	22.0	6.4	22.1		
15									5.6	21.9	6.1	22.0		
16									5.0	21.8	5.8	21.9		
17									4.7	21.8	5.2	21.9		
18									0.1	21.0	3.7	21.6		
19											2.4	21.2		
20											0.1	20.2		
21											0.0	18.4		
22											0.0	15.2		
23											0.0	14.7		
24											0.0	14.3		
25			6.8	22.6	8.4	22.8	7.4	22.6	6.0	22.5	5.0	21.3		

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

Week 9 AM: 7/31/2007
River Flow (Jay, Maine): 2,380 cfs
Weather: Sunny with fog early in AM
Air Temperature: 70-75 deg. F (21-24 deg. C)
Comments: Pond level down 1-2 meters. Low density particles on surface/in column at Turner Bridge and Upper Narrows. Particles on surface/in colum
at medium density at Lower Narrows. Particles on surface at medium density on surface and at medium-high density in the column at GIP-
Particles on surface/in column at medium density at Deep Hole

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	5:20	6.7	25.9	y
YSI 51B	Comparison	5:20	6.7	25.9	n
YSI 55	Twin Bridges	5:20	6.8	25.7	n

AM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	8:20	5.9	26.8	n
YSI 51B	Comparison	8:20	5.9	26.8	n
YSI 55	Twin Bridges	8:20	6.1	26.6	n

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	6.7	25.9	5.8	26.8	6.7	26.5	6.7	26.5	6.8	26.7	6.9	26.4
1			5.9	26.7	6.6	26.5	6.5	26.6	6.6	26.7	6.8	26.5
2			5.9	26.7	6.7	26.5	6.6	26.6	6.7	26.7	6.9	26.5
3			5.9	26.7	6.9	26.5	6.5	26.6	6.7	26.7	7.0	26.5
4			5.9	26.7	6.8	26.4	6.7	26.5	6.3	26.2	6.6	26.1
5			5.8	26.6	6.3	26.3	6.9	26.3	6.0	26.0	5.9	26.0
6			5.6	26.6	6.2	26.2	6.7	26.0	6.0	25.7	5.9	25.8
7			5.1	26.3	5.2	25.4	6.2	25.7	6.1	25.5	5.6	25.5
8			3.0	25.7	0.2	25.1	5.4	25.2	6.0	25.3	5.7	25.2
9			2.7	25.4			4.8	24.5	6.0	24.8	5.7	24.8
10			2.5	25.2			3.8	23.8	5.6	24.2	5.4	24.4
11			2.5	25.1			2.5	23.5	5.6	23.8	5.6	23.8
12							1.8	22.6	4.9	23.6	5.4	23.5
13							1.3	22.3	4.8	23.2	5.3	23.2
14							0.1	22.1	4.3	22.8	5.0	23.1
15									3.7	22.6	4.5	22.8
16									3.1	22.4	3.7	22.5
17									1.6	22.2	2.8	22.3
18									0.1	21.5	2.2	22.0
19											0.1	21.2
20											0.0	19.1
21											0.0	16.8
22											0.0	15.1
23											0.0	14.4
24											0.0	14.1
25			4.7	26.2	5.7	26.2	4.8	25.0	5.1	24.6	4.1	22.7

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

Week 9 PM: 7/31/2007
River Flow (Jay, Maine): 2,380 cfs
Weather: Sunny, very hot
Air Temperature: 85-90 deg. F (30-32 deg. C)
Comments: Pond extremely calm. Slight NW breeze early PM switching to SW late PM
Pond level down 1-2 meters. Low density particles on surface/in column at Turner Bridge and Upper Narrows. Particles on surface/in colum
at medium density at Lower Narrows. Particles on surface at medium density on surface and at medium-high density in the column at GIP-
Particles on surface/in column at medium density at Deep Hole

PM Meter Verification (Before Sampling)					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	10:55	6.2	27.4	n
YSI 51B	Comparison	10:55	6.2	27.5	n
YSI 55	Twin Bridges	10:55	6.3	27.4	n

PM Meter Verification (After Sampling)					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	15:50	6.9	29.1	n
YSI 51B	Comparison	15:50	7.0	29.0	n

;

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	6.7	26.3	6.7	29.1	7.1	28.8	7.4	28.8	7.0	28.9	7.2	28.7
1			6.6	27.2	7.1	27.5	6.9	27.6	7.5	27.4	7.2	27.7
2			6.2	26.9	7.4	26.6	6.9	26.9	7.0	26.7	7.0	26.6
3			6.1	26.7	7.4	26.4	6.9	26.5	6.7	26.4	6.6	26.4
4			6.0	26.6	7.1	26.3	6.9	26.4	6.5	26.2	6.6	26.3
5			5.9	26.6	6.9	26.3	6.6	26.1	6.7	26.0	6.7	26.6
6			5.8	26.5	6.4	26.1	6.7	25.8	7.0	25.8	6.6	25.9
7			5.0	26.3	4.7	25.6	6.5	25.6	6.8	25.6	6.4	25.8
8			4.2	26.1			5.6	24.7	6.4	25.3	5.9	25.5
9			4.1	26.1			5.4	24.4	6.0	24.8	5.9	25.1
10			4.0	26.1			4.4	24.0	5.9	24.1	6.1	24.4
11			4.0	26.2			2.2	23.2	5.7	23.7	5.4	23.8
12							1.7	22.4	4.6	23.3	5.4	23.4
13							0.0	22.1	4.6	23.0	5.2	23.2
14									4.3	22.8	4.7	22.9
15									3.5	22.5	4.1	22.7
16									2.2	22.2	3.1	22.2
17									2.1	21.5	2.3	22.0
18									0.0	21.3	2.0	21.8
19											0.0	21.1
20											0.0	18.2
21											0.0	15.9
22											0.0	14.6
23											0.0	14.0
24											0.0	13.9
25			5.4	26.7	6.8	26.7	5.3	25.3	5.3	24.6	4.2	22.7

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 0.5 m at Deep Hole and GIP
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

AM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	8:20	6.3	25	n
YSI 51B	Comparison	8:20	6.1	25	n
YSI 55	Twin Bridges	8:20	6.1	24.9	n

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	6.9	23.2	6.3	25.1	7.2	25.9	6.4	26.2	5.7	26.5	5.9	26.5
1			6.4	25.1	7.2	25.9	6.3	26.3	5.9	26.6	5.8	26.5
2			6.3	25.1	7.1	25.9	6.4	26.3	5.9	26.6	5.7	26.6
3			6.3	25.1	7.2	25.9	6.4	26.3	5.9	26.6	5.8	26.6
4			6.3	25.1	7.1	25.9	6.3	26.3	5.9	26.6	5.8	26.6
5			6.4	25.1	7.2	25.9	6.2	26.3	6.0	26.6	5.9	26.6
6			6.4	25.1	7.2	25.9	6.1	26.3	5.9	26.6	6.0	26.6
7			6.4	25.1	7.1	25.7	6.0	26.3	5.9	26.6	5.4	26.6
8			5.3	25.1			6.0	26.3	5.6	26.6	5.3	26.6
9			5.2	25.1			6.2	26.3	5.7	26.6	5.4	26.6
10			4.9	25.1			6.1	26.3	5.5	26.6	5.5	26.6
11			4.8	25.1			6.0	26.3	5.6	26.6	5.4	26.6
12							6.1	26.3	5.2	26.5	5.0	26.5
13							0.3	22.6	5.3	26.5	5.0	26.5
14									4.6	26.4	4.4	26.5
15									4.6	26.1	3.9	26.3
16									3.6	26.0	3.0	26.0
17											2.1	25.4
18											0.8	24.3
19											0.1	21.6
20											0.1	19.1
21											0.0	17.0
22											0.0	15.3
23											0.0	14.4
24												
25			5.9	25.1	7.2	25.9	5.8	26.0	5.5	26.5	3.8	24.5

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 particle density in upper 0.5 m at Deep Hole and GIP
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

PM Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	15:00	7.2	26.1	n
YSI 51B	Comparison	15:00	7.0	26.0	y

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Deep Hole		Dup. Upper Narrows	
	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	7.2	23.7	7.1	26.2	7.6	27.6	7.2	27.7	6.7	27.9	6.7	28.4	7.3	27.5
1			7.1	26.0	7.4	26.0	7.3	26.8	6.4	27.2	6.3	27.0	7.3	27.3
2			7.0	24.9	7.3	25.9	7.2	26.5	6.3	26.6	6.3	26.7	7.3	25.9
3			6.9	24.8	7.8	25.8	7.2	26.4	6.1	26.6	6.3	26.6	7.4	25.8
4			6.8	24.8	7.7	25.7	7.0	26.3	5.9	26.6	6.0	26.6	7.3	25.8
5			6.8	24.7	7.9	25.7	7.0	26.3	6.0	26.5	6.2	26.6	7.9	25.7
6			6.8	24.7	7.8	25.7	7.1	26.3	5.9	26.5	6.2	26.5	7.9	25.7
7			6.7	24.7			6.9	26.3	5.6	26.5	6.2	26.5		
8			6.0	24.7			7.1	26.2	6.0	26.5	6.1	26.5		
9			6.0	24.7			7.2	26.1	6.1	26.5	6.0	26.5		
10			5.9	24.7			7.3	26.1	6.0	26.4	5.7	26.5		
11			4.2	24.7			7.2	26.0	6.1	26.4	5.7	26.4		
12			4.2	24.7			7.1	26.0	5.9	26.3	5.3	26.4		
13			4.0	24.7			0.1	22.6	5.6	26.3	4.7	26.3		
14							0.1	22.1	5.5	26.3	4.9	26.2		
15									5.4	26.2	3.7	26.1		
16									4.6	25.9	3.1	25.9		
17									2.6	25.5	3.1	25.6		
18											0.9	24.2		
19											0.1	21.4		
20											0.0	18.9		
21											0.0	16.5		
22											0.0	14.8		
23											0.0	14.4		
24														
25			6.1	24.9	7.6	26.1	6.2	25.8	5.7	26.5	4.1	24.5		

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

Week 11 AM: 08/14/2007
River Flow (Jay, Maine): 2,856 cfs
Weather: Partly Cloudy with a slight breeze
Air Temperature: 55-65 deg. F (15-18 deg. C)
Comments: Pond calm; no green tint, very few particles. Diffuser running at full strength

AM Meter Verification: Before Sampling						
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated	
YSI 550A	Primary	5:15	7.7	22.0	n	
YSI 51 B	Comparison	5:15	7.2	22.0	y	<- altitude
YSI 55	Twin Bridges	5:15	7.6	22.0	n	malfunctioning

AM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	8:25	7.0	23.5	n
YSI 51B	Comparison	8:25	7.0	23.3	n
YSI 55	Twin Bridges	8:25	6.8	23.4	n

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	7.7	22.0	7.0	23.3	7.2	23.8	7.6	24.2	7.2	24.2	7.2	23.6
1			7.0	23.5	7.0	24.0	7.4	24.3	7.3	24.3	6.9	24.4
2			6.9	23.5	6.9	24.1	7.6	24.3	7.1	24.4	6.7	24.4
3			7.1	23.5	7.0	24.1	7.2	24.3	6.9	24.2	6.6	24.4
4			7.1	23.5	7.4	23.9	7.3	24.2	7.1	24.0	5.6	24.3
5			6.9	23.5	7.6	23.7	7.3	23.8	7.3	23.9	5.7	23.0
6			7.0	23.5	7.8	23.6	7.2	23.8	7.3	23.8	5.8	23.8
7			7.0	23.5			7.2	23.7	7.3	23.7	6.2	23.7
8			6.2	23.5			6.5	23.5	7.0	23.5	6.2	23.6
9			6.5	23.5			6.5	23.5	6.9	23.4	6.3	23.5
10			6.2	23.5			6.2	23.2	6.7	23.4	6.3	23.4
11			6.1	23.5			6.5	23.1	6.6	23.3	6.2	23.4
12			6.5	23.5			6.7	23.1	6.5	23.3	6.3	23.3
13							6.5	23.0	6.5	23.2	6.2	23.2
14							0.1	22.9	6.7	23.2	6.2	23.2
15							0.0	22.8	6.6	23.1	6.2	23.1
16									6.2	23.0	6.1	23.1
17									4.4	22.8	6.2	23.0
18									0.1	22.6	6.2	23.0
19											5.6	22.9
20											4.8	22.6
21											0.1	20.2
22											0.1	15.4
23											0.0	14.2
24											0.0	13.8
25			6.7	23.5	7.3	23.9	6.1	23.6	6.4	23.5	5.2	22.3

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

Week 11 PM: 08/14/2007
River Flow (Jay, Maine): 2,856 cfs
Weather: Partly Sunny, alternating NW-SW breeze
Air Temperature: 70 deg F (23 deg. C)
Comments: Wind speed increased in afternoon, causing drift; pond choppy. Diffuser running full strengt

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	10:40	6.9	23.4	n
YSI 51B	Comparison	10:40	6.8	23.3	n
YSI 55	Twin Bridges	10:40	6.8	23.4	n

PM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	15:50	7.3	24.1	n
YSI 51B	Comparison	15:50	7.4	24.0	n

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Deep Hole		GIP 4 -Duplicate	
	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	7.6	22.2	7.2	24.0	7.9	24.4	7.8	24.8	7.5	24.4	7.8	24.7	7.5	24.4
1			7.2	23.8	7.9	24.4	7.7	24.6	7.3	24.4	7.7	24.6	7.4	24.5
2			7.0	23.5	7.8	24.3	7.4	24.5	7.4	24.4	7.6	24.5	7.3	24.4
3			6.9	23.3	7.7	23.9	7.2	24.4	7.3	24.4	7.5	24.4	7.2	24.3
4			7.0	23.3	7.7	23.5	7.3	24.4	7.1	24.3	7.1	24.4	7.1	24.3
5			7.0	23.2			7.2	24.0	6.7	24.1	7.0	24.4	7.1	24.2
6			6.8	23.2			7.3	23.9	6.9	24.1	7.0	24.4	7.0	24.1
7			5.1	23.2			6.4	23.5	6.9	24.0	6.1	24.1	6.9	24.1
8			4.7	23.2			6.5	23.4	6.2	23.8	5.8	23.9	6.8	23.9
9			4.4	23.2			6.4	23.3	6.5	23.7	5.8	23.7	6.8	23.6
10			4.2	23.2			6.4	23.2	6.8	23.5	6.1	23.5	6.7	23.5
11			4.3	23.1			6.4	23.2	6.6	23.4	6.4	23.4	6.7	23.4
12			4.5	23.2			6.4	23.1	6.7	23.3	6.2	23.4	6.4	23.3
13							6.1	23.1	6.5	23.3	6.4	23.3	6.6	23.3
14							5.9	23.0	6.6	23.2	6.3	23.3	6.5	23.2
15									6.2	23.2	5.7	23.2	6.3	23.1
16									6.0	23.1	5.4	23.1	5.3	22.9
17									3.2	22.8	6.1	23.0	4.4	22.8
18									0.0	22.4	6.2	23.0	0.0	22.6
19											6.0	22.9		
20											5.4	22.7		
21											0.1	19.7		
22											0.0	15.0		
23											0.0	14.1		
24											0.0	13.8		
25			5.9	23.3	7.8	24.1	6.8	23.8	6.2	23.7	5.4	22.4		

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

Week 12 AM: 08/21/2007
River Flow (Jay, Maine): 2,201 cfs
Weather: Thick fog early AM; sun and NW breeze late AM
Air Temperature: 50 deg. F (10 deg. C)
Comments: Bryozoan colony noted on buoy rope at Deep Hole. Diffuser running full strength

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	5:30	6.0	19.1	y
YSI 51B	Comparison	5:30	6.0	19.0	alt. adjusted
YSI 55	Comparison	5:30	6.0	19.1	y - 2x

AM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	8:30	6.9	20.5	n
YSI 51B	Comparison	8:30	6.8	20.5	n
YSI 55	Comparison	8:30	7.0	20.4	n

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	6.0	19.0	6.8	20.3	6.8	21.2	6.6	21.9	5.9	22.1	5.7	22.4
1			6.8	20.4	6.9	21.2	6.4	21.9	5.8	22.3	5.9	22.4
2			6.9	20.4	6.5	21.2	6.3	21.9	5.8	22.3	5.9	22.4
3			7.0	20.4	6.5	21.2	6.3	21.9	5.8	22.3	5.9	22.5
4			6.9	20.4	6.8	21.0	6.3	22.0	6.0	22.3	5.6	22.5
5			7.0	20.4	6.8	21.0	6.3	22.0	6.1	22.4	5.6	22.5
6			6.8	20.4	6.8	21.0	6.5	22.0	5.8	22.3	5.7	22.5
7			6.6	20.4	6.5	21.0	6.4	21.9	5.6	22.3	5.8	22.4
8			6.6	20.4	6.5	21.0	6.5	21.9	5.7	22.2	5.8	22.4
9			6.2	20.4			6.5	21.8	5.9	22.1	5.7	22.3
10			6.2	20.4			6.7	21.8	6.1	22.0	5.7	22.3
11			6.1	20.4			6.6	21.7	6.1	21.9	5.7	22.3
12			6.2	20.4			6.6	21.6	6.1	21.9	5.7	22.2
13							6.5	21.6	6.1	21.8	5.8	22.1
14							6.4	21.6	6.1	21.8	5.9	22.1
15									6.2	21.8	5.9	22.1
16									6.2	21.8	6.0	22.0
17									6.2	21.8	6.0	22.0
18											6.0	22.0
19											6.0	22.0
20											5.8	21.9
21											5.9	21.8
22											2.7	20.8
23											0.2	14.4
24											0.1	14.0
25			6.6	20.4	6.7	21.1	6.5	21.8	6.0	22.1	5.2	21.5

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

Week 12 PM: 08/21/07
River Flow (Jay, Maine): 2,201 cfs
Weather: Sunny with a slight breeze
Air Temperature: 70 deg. F (21 deg. C)
Comments: Wind changed from a NW breeze to a SW breeze. Diffuser running full strength

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	10:55	7.0	21.3	n
YSI 85	Comparison	10:55	7.2	21.3	n
YSI 55	Comparison	10:55	7.2	21.4	n

PM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	14:55	7.1	22.9	n
YSI 85	Comparison	14:55	7.2	23.0	n

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	7.4	19.9	7.2	22.8	7.3	24.0	7.2	24.4	6.5	24.4	6.5	23.8
1			7.0	20.9	7.7	21.8	6.8	22.7	6.3	22.6	6.5	22.7
2			7.0	20.7	7.6	21.2	6.6	22.1	6.2	22.5	6.0	22.5
3			6.9	20.6	7.7	21.1	6.9	22.0	6.0	22.4	6.1	22.4
4			6.8	20.5	7.4	21.0	6.9	21.9	5.8	22.4	6.2	22.4
5			6.9	20.5	7.7	21.0	6.9	21.9	5.7	22.4	5.9	22.4
6			6.8	20.4	7.8	20.9	6.7	21.8	5.7	22.3	5.9	22.4
7			5.6	20.4	7.6	20.9	6.7	21.7	5.6	22.3	5.9	22.3
8			5.3	20.4	1.0	20.9	6.8	21.7	5.5	22.2	5.9	22.3
9			5.2	20.4			6.9	21.7	5.8	22.0	5.8	22.2
10			5.1	20.4			7.0	21.6	6.2	22.0	5.9	22.2
11			5.2	20.4			7.1	21.5	6.5	21.9	5.9	22.2
12			5.0	20.4			7.1	21.5	6.5	21.8	6.0	22.1
13							7.2	21.5	6.5	21.8	5.7	22.1
14							7.0	21.5	6.7	21.7	5.7	22.1
15									6.7	21.7	5.8	22.0
16									6.5	21.7	6.1	22.0
17									6.4	21.7	6.2	22.0
18											6.0	21.8
19											6.3	21.8
20											5.8	21.8
21											5.9	21.7
22											0.6	18.9
23											0.1	14.1
24											0.0	13.8
25			6.2	20.7	6.9	21.4	6.9	22.0	6.2	22.2	5.3	21.4

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

Week 13 AM: 8/28/07
River Flow (Jay, Maine): 2,297 cfs
Weather: Sunny slight NW breeze
Air Temperature: 55-60 deg F (13-15 deg C)
Comments: Lower Narrows buoy missing ; profile done while drifting, Drift minimal due to low wind and current. Diffuser running at full streng

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	5:45	7.2	21.2	y
YSI 51B	Comparison	5:45	7.2	21.3	alt. adjusted
YSI 55	Comparison	5:45	7.4	21.3	n

AM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	8:40	6.8	22.7	n
YSI 51B	Comparison	8:40	6.7	22.5	n
YSI 55	Comparison	8:40	6.8	22.5	n

Depth (m)	Twin Bridges											
	DO (mg/L)	Temp. (°C)										
0	7.3	21.2										
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25			#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!

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

Week 13 PM: 8/28/07
River Flow (Jay, Maine) 2,297 cfs
Weather: Sunny with a slight SW Breeze, water very calm
Air Temperature: 80 deg F (26 deg. C)
Comments: Lower Narrows buoy missing ; profile done while drifting, Drift minimal due to low wind and current. Diffuser running at full streng

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	10:40	6.9	23.5	n
YSI 51B	Comparison	10:40	6.9	23.5	n
YSI 55	Comparison	10:40	7.0	23.4	n

PM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	15:00	7.3	24.6	n
YSI 51B	Comparison	15:00	7.5	24.8	n

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Deep Hole		Dup-GIP-4	
	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	7.7	22.3	7.4	24.6	7.8	24.3	8.0	25.1	7.5	25.3	7.5	25.7	7.4	25.6
1			7.4	23.8	8.5	22.8	8.2	23.6	7.8	23.6	7.8	24.4	7.8	23.6
2			7.1	22.9	8.5	22.7	8.0	23.0	7.4	23.3	7.7	23.6	7.5	23.2
3			7.0	22.6	8.2	22.6	7.9	22.8	7.7	23.1	7.6	23.6	7.4	23.1
4			6.8	22.5	8.4	22.6	7.9	22.7	7.3	23.0	7.4	23.1	7.0	23.0
5			6.7	22.4	8.1	22.5	7.9	22.7	6.8	22.8	6.8	23.0	6.4	22.8
6			6.7	22.4	7.7	22.4	7.9	22.6	6.4	22.5	6.8	22.7	6.3	22.5
7			6.5	22.3	6.3	21.9	8.1	22.3	6.8	22.3	6.8	22.3	6.7	22.2
8			4.5	22.0			7.2	22.1	6.7	21.7	6.6	21.9	6.6	21.9
9			4.2	22.0			6.6	21.9	6.8	21.7	6.3	21.7	6.1	21.7
10							6.3	21.7	6.6	21.6	6.2	21.6	6.5	21.6
11							5.8	21.5	6.5	21.5	6.3	21.5	6.1	21.5
12							5.4	21.4	6.6	21.4	6.0	21.4	6.7	21.4
13							5.2	21.4	6.6	21.4	6.4	21.3	6.7	21.3
14							5.3	21.4	6.3	21.3	6.4	21.3	6.6	21.3
15									6.2	21.2	6.4	21.3	6.6	21.3
16									6.2	21.2	6.5	21.2	6.4	21.2
17									3.9	21.1	6.5	21.2	4.7	21.1
18											6.1	21.1		
19											5.3	21.1		
20											5.3	21.0		
21											4.8	20.9		
22											4.1	20.8		
23											2.4	20.4		
24											0.1	19.2		
25			6.4	22.8	7.9	22.7	7.0	22.4	6.7	22.2	6.0	21.9		

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

Week 14 AM: 9/4/07
River Flow (Jay, Maine): 2,082 cfs
Weather: Sunny, Windy
Air Temperature: 60 deg F (15 deg C)
Comments: NW wind quite strong downstream; less strong at Narrows and upstream. Diffuser running at full strengtl

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	6:00	7.8	21.0	n
YSI 51B	Comparison	6:00	7.5	21.0	n
YSI 55	Comparison	6:00	7.6	21.0	n

AM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	8:45	7.2	21.9	n
YSI 51B	Comparison	8:45	7.0	22.0	n
YSI 55	Comparison	8:45	7.0	21.9	n

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	7.8	21.0	7.5	21.8	7.8	22.4	7.4	22.6	7.1	22.3	7.0	22.5
1			7.5	21.9	7.9	22.4	7.5	22.7	7.0	22.4	7.1	22.5
2			7.4	21.9	7.9	22.5	7.4	22.7	7.0	22.4	7.1	22.5
3			7.5	21.9	8.0	22.5	7.3	22.7	7.1	22.4	7.2	22.5
4			7.5	21.9	8.0	22.5	7.2	22.7	7.1	22.4	7.1	22.5
5			7.3	21.9	8.3	22.4	7.4	22.7	7.1	22.4	7.0	22.5
6			7.3	21.9	8.3	22.4	7.2	22.4	7.0	22.4	7.0	22.5
7			6.8	21.8	8.0	22.4	7.2	22.4	7.1	22.4	6.9	22.5
8			6.3	21.8	6.8	22.4	7.0	22.3	7.1	22.4	6.7	22.4
9			6.3	21.8			7.0	22.3	7.1	22.4	6.8	22.3
10							6.9	22.3	7.1	22.4	6.7	22.3
11							6.8	22.3	7.1	22.4	6.7	22.3
12							6.8	22.2	7.1	22.4	6.5	22.3
13							6.7	22.2	7.1	22.4	6.6	22.3
14									7.1	22.4	6.6	22.3
15									7.1	22.4	6.5	22.2
16									7.1	22.4	6.5	22.1
17									7.1	22.4	6.2	22.0
18											4.8	21.8
19											3.4	21.2
20											2.4	21.0
21											0.3	20.6
22											0.1	20.4
23											0.0	19.8
24											0.0	18.0
25			7.1	21.9	7.9	22.4	7.1	22.5	7.1	22.4	5.3	21.8

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

Week 14 PM: 9/4/07
River Flow (Jay, Maine): 1,750 cfs
Weather: Sunny and windy
Air Temperature: 65 deg F (18 deg C)
Comments: Incredibly strong NW wind; pond very choppy, esp. from GIP-4 downstream. Diffuser running full streng
DNS- did not sample due to excessively high winds.

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	11:00	7.2	22.0	n
YSI 51B	Comparison	11:00	7.2	22.0	n
YSI 55	Comparison	11:00	7.4	22.0	n

PM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	14:45	7.3	22.3	n
YSI 51B	Comparison	14:45	7.2	22.5	n

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Deep Hole		Dup-Turner Bridge	
	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	7.3	21.3	7.3	20.3	7.6	22.7	7.2	22.9	DNS	DNS	6.7	22.4	7.1	22.3
1			7.1	20.3	7.6	22.7	7.2	22.8	DNS	DNS	6.8	22.4	7.1	22.3
2			7.1	22.2	7.5	22.7	7.1	22.8	DNS	DNS	6.7	22.4	7.2	22.1
3			7.0	22.0	7.6	22.7	7.0	22.7	DNS	DNS	6.7	22.4	7.1	21.9
4			6.9	21.9	7.6	22.7	7.0	22.7	DNS	DNS	6.7	22.4	7.1	21.9
5			7.1	21.9	7.5	22.7	7.0	22.6	DNS	DNS	6.7	22.4	7.0	21.9
6			7.1	21.9	7.5	22.6	6.9	22.6	DNS	DNS	6.7	22.3	6.8	21.8
7			6.9	21.8	7.5	22.6	6.8	22.6	DNS	DNS	6.7	22.3	6.6	21.8
8							6.9	22.6	DNS	DNS	6.6	22.3		
9							6.5	22.4	DNS	DNS	6.6	22.3		
10							6.0	22.2	DNS	DNS	6.6	22.3		
11							6.0	22.2	DNS	DNS	6.6	22.3		
12							6.0	22.2	DNS	DNS	6.5	22.3		
13									DNS	DNS	6.4	22.2		
14									DNS	DNS	6.3	22.2		
15									DNS	DNS	6.2	22.1		
16									DNS	DNS	6.2	22.1		
17											6.0	22.0		
18											3.1	21.2		
19											1.1	20.7		
20											0.4	20.5		
21											0.1	20.3		
22											0.0	19.6		
23											0.0	16.8		
24											0.0	15.3		
25			7.1	21.5	7.6	22.7	6.7	22.6	#DIV/0!	#DIV/0!	4.9	21.4		

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

Week 15 AM: 9/11/07
River Flow (Jay, Maine): 2,797 cfs
Weather: Cool, calm, cloudy, misty
Air Temperature: 60 deg F (15 deg C)
Comments: Water down 1-2 meters; Diffuser running at full strength

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	6:00	7.8	19.9	n
YSI 51B	Comparison	6:00	7.6	20.0	alt adj, zero, fullscale
YSI 55	Comparison	6:00	7.6	20.0	n

AM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	8:50	7.4	20.0	n
YSI 51B	Comparison	8:50	7.3	20.0	alt. adj zero, fullscale
YSI 55	Comparison	8:50	7.1	20.0	n

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	7.8	19.9	7.5	20.0	7.7	20.6	7.1	21.1	6.6	21.2	6.6	21.1
1			7.5	20.0	7.7	20.6	7.2	21.1	6.6	21.2	6.7	21.2
2			7.5	20.0	7.7	20.6	7.0	21.1	6.5	21.2	6.6	21.2
3			7.5	20.0	7.7	20.6	7.1	21.1	6.6	21.3	6.4	21.2
4			7.5	20.0	7.8	20.6	7.2	21.1	6.6	21.3	6.2	21.2
5			7.5	20.0	7.9	20.6	7.0	21.1	6.5	21.3	6.4	21.2
6			7.6	20.0	8.3	20.6	7.1	21.1	6.7	21.3	6.0	21.2
7			7.4	20.0			7.1	21.1	6.7	21.3	6.1	21.3
8			7.3	20.0			7.1	21.1	6.6	21.3	6.2	21.3
9							7.1	21.1	6.6	21.2	6.1	21.3
10							6.4	21.0	6.3	21.1	6.2	21.2
11									6.3	21.1	6.1	21.2
12									6.1	21.1	5.9	21.1
13									6.1	21.0	6.1	21.1
14									5.9	21.0	6.1	21.1
15									5.9	21.0	6.2	21.0
16									6.0	21.0	5.9	21.0
17									5.7	21.0	6.4	21.0
18											6.3	21.0
19											6.1	21.0
20											5.6	21.0
21											5.5	21.0
22											5.5	20.9
23											1.0	20.7
24												
25			7.5	20.0	7.8	20.6	7.0	21.1	6.4	21.2	5.9	21.1

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

Week 15 PM: 9/11/07
River Flow (Jay, Maine): 2,797 cfs
Weather: Mist and clouds; late PM rain
Air Temperature: 60 deg F (15 deg C)
Comments: Diffuser not running

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	11:05	7.5	19.9	n
YSI 51B	Comparison	11:05	7.4	20.0	alt adj, zero, fullscale
YSI 55	Comparison	11:05	7.2	19.9	y

PM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	14:35	7.5	19.9	n
YSI 51B	Comparison	14:35	7.8	19.9	n

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP-4		Deep Hole		Dup-Upper Narrows	
	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	7.6	20.0	7.5	19.9	8.3	20.6	6.6	20.9	6.8	21.2	6.7	21.2	8.1	20.6
1			7.6	19.9	8.2	20.6	7.0	21.0	6.8	21.2	6.7	21.2	8.2	20.6
2			7.6	19.9	8.2	20.6	7.0	21.0	7.0	21.2	6.7	21.2	8.3	20.6
3			7.6	19.9	8.3	20.6	7.0	21.0	6.9	21.2	6.7	21.2	8.1	20.6
4			7.5	19.9	8.2	20.6	6.9	21.0	6.9	21.2	6.6	21.2	8.2	20.6
5			7.5	19.9	8.1	20.6	7.2	20.9	6.8	21.2	6.5	21.2	8.0	20.6
6			7.4	19.9	8.1	20.6	6.7	20.9	6.9	21.2	6.4	21.2	8.0	20.6
7							6.9	20.9	6.9	21.2	6.7	21.2		
8							6.9	20.9	6.9	21.2	6.6	21.2		
9							6.9	20.9	6.7	21.2	6.5	21.2		
10									6.9	21.0	6.5	21.1		
11									6.7	21.0	6.5	21.1		
12									6.7	21.0	6.6	21.1		
13									6.7	20.9	6.5	21.1		
14									6.7	20.9	6.5	21.1		
15									6.6	20.9	6.4	21.0		
16									5.9	20.9	6.2	21.0		
17											6.2	21.0		
18											6.2	21.0		
19											6.0	21.0		
20											5.8	21.0		
21											5.5	20.9		
22											5.5	20.9		
23														
24														
25			7.5	19.9	8.2	20.6	6.9	20.9	6.8	21.1	6.4	21.1		

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

Week 16 AM: 9/18/07
River Flow (Jay, Maine): 2,797 cfs
Weather: Thick fog early AM, sun by 8AM
Air Temperature: 50-60 deg F (9- 15 deg C)
Comments: Thick fog delayed profiling, sunny by 8AM. Water very calm , slight NW breeze. Diffuser not runnin

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	6:15	8.9	15.1	n
YSI 51B	Comparison	6:15	8.8	15.0	n
YSI 55	Comparison	6:15	8.8	15.2	n

AM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	9:45	8.7	17.3	n
YSI 51B	Comparison	9:45	8.4	17.2	n
YSI 55	Comparison	9:45	8.6	17.2	n

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Deep Hole	
	DO (mg/L)	Temp. (oC)	DO (mg/L)	Temp. (oC)	DO (mg/L)	Temp. (oC)	DO (mg/L)	Temp. (oC)	DO (mg/L)	Temp. (oC)	DO (mg/L)	Temp. (oC)
0	8.9	15.1	8.3	17.2	7.6	18.2	7.3	18.9	7.1	18.9	6.7	18.9
1			8.5	17.0	7.5	18.2	7.2	18.9	7.0	19.0	6.7	19.0
2			8.5	17.0	7.7	17.9	7.1	18.9	7.0	19.0	6.9	19.0
3			8.6	17.0	8.2	17.6	7.3	18.7	6.8	19.0	6.8	19.1
4			8.5	17.0	8.0	17.4	7.5	18.7	7.0	19.0	6.9	19.1
5			8.5	17.0	7.9	17.2	7.5	18.7	7.0	19.0	6.8	19.1
6			8.6	17.0	8.0	17.2	7.6	18.4	6.9	19.0	6.8	19.1
7			8.6	17.0	7.9	17.2	7.0	18.4	7.0	18.9	6.7	19.0
8							7.3	18.2	7.1	18.6	6.8	18.9
9							7.5	18.1	7.2	18.5	6.8	18.8
10							7.6	17.9	7.3	18.3	7.0	18.7
11							7.4	17.8	7.3	18.3	6.8	18.5
12									7.4	18.1	7.2	18.5
13									7.5	18.1	7.0	18.5
14									7.5	18.1	7.0	18.4
15									7.4	18.2	7.1	18.3
16									7.4	18.0	7.1	18.4
17									7.4	18.1	7.2	18.4
18											7.1	18.4
19											7.0	18.4
20											7.1	18.4
21											7.0	18.4
22											7.3	18.3
23											7.2	18.3
24												
25			8.5	17.0	7.9	17.6	7.4	18.5	7.2	18.6	7.0	18.7

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

Week 16 PM: 9/18/07
River Flow (Jay, Maine): 2,797 cfs
Weather: Sunny, calm
Air Temperature: 70 deg F (20 deg C)
Comments: Pond calm. Diffuser not running

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	13:15	8.7	19.9	n
YSI 51B	Comparison	13:15	8.6	20.0	n
YSI 55	Comparison	13:15	8.6	19.9	n

PM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	15:25	8.7	18.5	n
YSI 51B	Comparison	15:25	8.5	18.7	alt.-adjusted

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	9.2	17.3	8.7	19.0	8.1	21.0	7.7	21.4	7.3	21.5	7.2	21.8
1			8.8	17.5	7.9	19.3	7.6	19.6	7.1	19.5	7.1	19.8
2			8.7	17.1	8.2	18.4	7.7	19.1	7.2	19.2	6.9	19.3
3			8.7	16.9	8.3	17.8	7.7	18.7	6.9	19.1	6.8	19.2
4			8.6	16.9	8.5	17.2	7.7	18.6	7.1	19.1	6.8	19.1
5			8.5	16.9	8.5	17.0	7.9	18.5	7.1	19.1	6.8	19.0
6			8.5	16.9	8.3	17.0	7.8	28.4	7.0	19.0	6.8	18.9
7			8.5	16.9	8.4	17.0	7.5	18.1	7.0	18.8	6.9	18.9
8			8.0	16.9			7.4	18.0	7.3	18.6	7.1	18.8
9			7.0	16.9			7.6	17.9	7.5	18.3	7.2	18.7
10							7.6	17.7	7.6	18.2	7.2	18.7
11							7.5	17.5	7.8	18.0	7.2	18.6
12							7.5	17.5	7.8	18.0	7.3	18.4
13									7.8	17.9	7.3	18.3
14									7.8	17.9	7.2	18.3
15									7.8	17.9	7.4	18.3
16									7.8	17.9	7.3	18.3
17									7.4	17.9	7.3	18.3
18											7.1	18.3
19											7.3	18.3
20											7.3	18.3
21											7.2	18.3
22											7.4	18.2
23												
24												
25			8.4	17.2	8.3	18.1	7.6	19.3	7.4	18.7	7.1	18.8

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

Week 17 AM: 9/25/07
River Flow (Jay, Maine): 2,416 cfs
Weather: Sunny, clear
Air Temperature: 50-55 °F (10-12 °C)
Comments: No green tint to water, however many individual green particles were present at Deep Hole and in a lower density at GIP-4, Lower Narrows, and Upper Narrows
Diffuser not running

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	6:15	8.3	17.6	n
YSI 51B	Comparison	6:15	8.5	17.5	alt.adj.
YSI 55	Comparison	6:15	8.4	17.5	n

AM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	8:50	8.3	18.5	n
YSI 51B	Comparison	8:50	8.3	18.5	alt.adj
YSI 55	Comparison	8:50	8.0	18.4	n

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	8.3	17.6	8.3	18.4	7.8	18.4	8.1	18.6	7.5	18.8	7.6	18.7
1			8.4	18.4	8.1	18.4	8.1	18.6	7.4	18.8	7.4	18.7
2			8.4	18.4	8.2	18.4	8.2	18.6	7.3	18.8	7.3	18.8
3			8.4	18.4	8.0	18.4	8.2	18.6	7.4	18.8	7.4	18.8
4			8.4	18.4	7.9	18.4	8.2	18.6	7.6	18.8	7.4	18.8
5			8.4	18.4	7.8	18.4	8.2	18.6	7.5	18.7	7.3	18.8
6			8.4	18.4	7.8	18.4	8.1	18.5	7.1	18.7	7.3	18.8
7			8.0	18.4	7.7	18.3	8.1	18.5	7.2	18.6	7.2	18.7
8			7.8	18.4			7.7	18.4	7.4	18.5	7.3	18.6
9			7.7	18.4			7.5	18.3	6.8	18.4	7.4	18.5
10			7.6	18.4			7.3	18.3	7.1	18.3	7.5	18.3
11			7.5	18.4			6.8	18.1	7.4	18.1	7.3	18.2
12							6.8	17.8	7.4	18.0	6.9	18.1
13									7.3	18.0	7.1	18.0
14									7.3	17.8	7.3	17.9
15									7.2	17.7	7.0	17.7
16									7.0	17.6	6.8	17.6
17											6.8	17.6
18											6.7	17.6
19											6.3	17.5
20											6.1	17.5
21											6.1	17.5
22											6.0	17.4
23											5.4	17.4
24												
25			8.1	18.4	7.9	18.4	7.8	18.4	7.3	18.4	7.0	18.1

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

Week 17 PM: 9/25/07
River Flow (Jay, Maine): 2,416 cfs
Weather: Sunny, Clear with a slight SW breeze
Air Temperature: 80 °F (26 °C)
Comments: Diffuser not running

* NC - Not Conducted due to meter malfunction*

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	11:20	8.4	19.4	n
YSI 51B	Comparison	11:20	6.6	19.5	Alt-malfunction
YSI 55	Comparison	11:20	8.2	19.4	n

PM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 550A	Primary	NC	NC	NC	NC
YSI 51B	Comparison	NC	NC	NC	NC

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Deep Hole		Dup.-Turner Bridge	
	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	8.4	18.6	8.7	20.6	8.7	20.2	8.5	20.4	8.1	20.0	8.5	20.6	8.5	20.2
1			8.7	19.9	8.5	20.0	8.6	19.7	8.3	19.9	8.4	20.2	8.6	19.2
2			8.6	18.7	8.5	19.1	8.6	18.8	7.9	18.9	8.2	19.2	8.6	18.6
3			8.6	18.6	8.4	18.4	8.5	18.7	7.7	18.8	8.1	18.9	8.5	18.5
4			8.6	18.6	8.3	18.4	8.3	18.6	7.7	18.8	8.0	18.8	8.6	18.5
5			8.6	18.6	8.0	18.4	8.3	18.5	7.9	18.7	7.9	18.7	8.5	18.5
6			8.5	18.5	8.1	18.4	8.4	18.5	7.5	18.7	7.9	18.7	8.4	18.5
7			8.3	18.5	8.0	18.3	8.3	18.5	7.9	18.6	7.7	18.6		
8							8.2	18.4	7.6	18.5	7.7	18.5		
9							8.0	18.3	7.4	18.4	7.7	18.4		
10							7.8	18.3	6.9	18.2	7.6	18.3		
11									7.1	18.2	7.3	18.2		
12									7.4	18.0	7.3	18.0		
13									7.1	17.8	7.5	18.0		
14									7.0	17.7	7.5	17.8		
15									6.8	17.7	7.1	17.7		
16									6.8	17.6	6.6	17.6		
17									6.1	17.6	6.7	17.6		
18											6.4	17.6		
19											6.3	17.5		
20											6.2	17.5		
21											5.8	17.4		
22											5.4	17.4		
23											5.2	17.4		
24														
25			8.6	19.0	8.3	18.9	8.3	18.8	7.4	18.5	7.2	18.3		