

Station # 1-QHS

AMBIENT WATER

Water Column Height (meters)
1 X
2 0.331
3 0.331
4 0.324
5 0.352

Time	15:00
Date	6/30/2008
Tide	LOW

Other
Analytes
Grainsize

Adjusted SOD w/ DO

CORE #1	N/A	SOD ave	0.87
CORE #2	0.61	Std Dev	0.67
CORE #3	1.80		
CORE #4	0.23		
CORE #5	0.82		

Core #1 did not seal properly on bottom

SOD ANALYSIS

TIME

Dissolved Oxygen (mg/l)
CORE #1 CORE #2 CORE #3 CORE #4 CORE #5 WQ

Temperature (C)
CORE #1 CORE #2 CORE #3 CORE #4 CORE #5 WQ

1940	0
2010	30
2040	60
2110	90
2140	120
2210	150
2240	180
2310	210

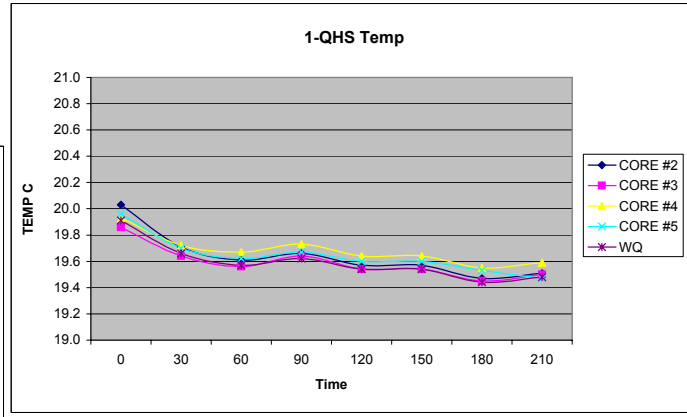
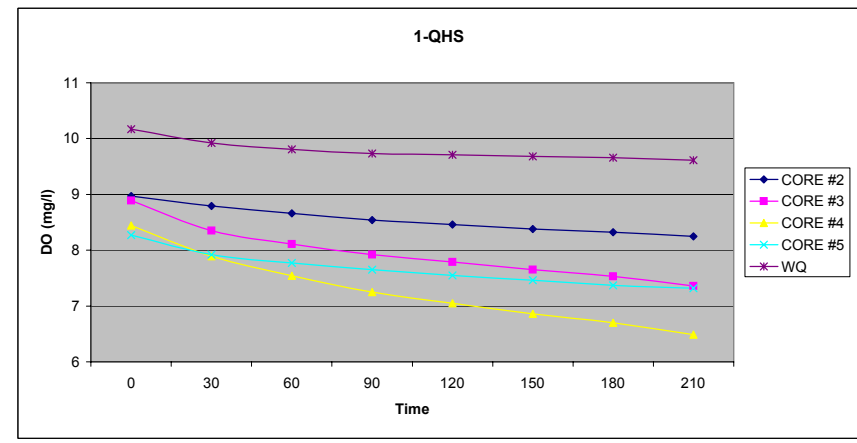
	8.97	8.89	8.44	8.27	10.17
	8.79	8.35	7.89	7.92	9.92
	8.66	8.11	7.54	7.77	9.81
	8.54	7.92	7.25	7.65	9.73
	8.46	7.79	7.05	7.55	9.71
	8.38	7.65	6.86	7.46	9.68
	8.32	7.53	6.70	7.37	9.66
	8.25	7.36	6.49	7.32	9.61

	20.0	19.9	19.9	20.0	19.9
	19.7	19.6	19.7	19.7	19.7
	19.6	19.6	19.7	19.6	19.6
	19.7	19.6	19.7	19.7	19.6
	19.6	19.5	19.6	19.6	19.5
	19.6	19.5	19.6	19.6	19.5
	19.5	19.5	19.6	19.5	19.4
	19.5	19.5	19.6	19.5	19.5

SOD Ave	1.70
Standard Deviation	0.67

N/A	1.43	2.62	1.04	1.69
SOD				

Analyzed by: _____
Samples collected by: Tim Bridges, Leah Bowe



Station # 2-QHS Southwest of Pole Island

AMBIENT WATER	
Water Column Height (meters)	
1	0.311
2	0.328
3	0.324
4	0.346
5	0.315

Time	1730
Date	7/1/2008
Tide	mid ebb

Other	
Analytes	
Grainsize	

Adjusted SOD w/ DO

CORE #1	0.57	SOD ave	0.50
CORE #2	0.63	Std Dev	0.18
CORE #3	0.29		
CORE #4	N/A		
CORE #5	N/A		

SOD ANALYSIS

Dissolved Oxygen (mg/l)

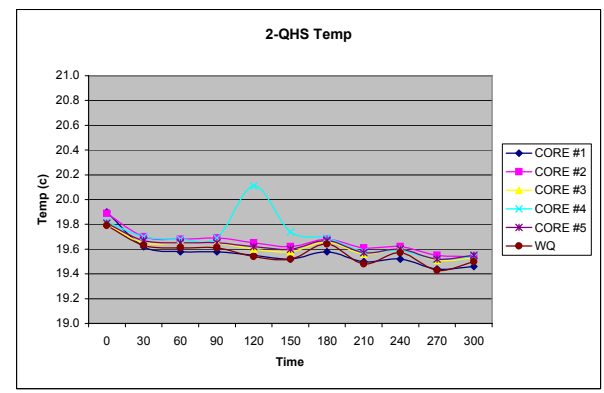
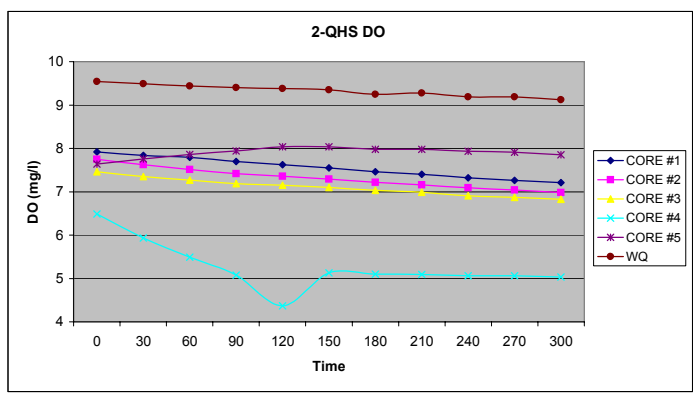
Temperature (C)

TIME	CORE #1	CORE #2	CORE #3	CORE #4	CORE #5	WQ
1808	7.92	7.75	7.46	6.49	7.64	9.54
1838	7.84	7.62	7.35	5.93	7.76	9.49
1908	7.79	7.51	7.27	5.49	7.86	9.44
1938	7.70	7.42	7.19	5.08	7.94	9.40
2008	7.62	7.36	7.15	4.37	8.04	9.38
2038	7.55	7.29	7.10	5.13	8.04	9.35
2108	7.46	7.22	7.03	5.10	7.98	9.25
2138	7.40	7.16	6.99	5.09	7.98	9.28
2208	7.32	7.09	6.91	5.06	7.93	9.19
2238	7.26	7.04	6.87	5.06	7.91	9.19
2308	7.21	6.98	6.83	5.03	7.85	9.12

CORE #1	CORE #2	CORE #3	CORE #4	CORE #5	WQ
19.9	19.9	19.8	19.8	19.8	19.8
19.6	19.7	19.7	19.7	19.7	19.6
19.6	19.7	19.7	19.7	19.7	19.6
19.6	19.7	19.7	19.7	19.7	19.6
19.6	19.7	19.6	20.1	19.6	19.5
19.5	19.6	19.6	19.7	19.6	19.5
19.6	19.7	19.7	19.7	19.7	19.6
19.5	19.6	19.6	19.6	19.6	19.5
19.5	19.6	19.6	19.6	19.6	19.6
19.4	19.6	19.5	19.5	19.5	19.4
19.5	19.5	19.5	19.5	19.6	19.5

SOD Ave	0.79	1.04	1.11	0.90	0.33	0.58
Standard Deviation	0.33	SOD				

Analyzed by: Matt Arvanites, Morgan Lindenmayer, Sam Burke
 Samples collec: Morgan, Tim Bridges, Leah Bowe



Station # **NEWM3**

AMBIENT WATER

Water Column Height (meters)

1	0.333
2	0.321
3	0.356
4	0.377
5	0.421
3 REP	0.372

Time	1630
Date	6/30/2008
Tide	LOW

Other	
Analytes	
Grainsize	

Station 3 was resampled due to no rate observed in the first sample.

Adjusted SOD w/ DO

CORE #1	1.33	SOD ave	2.01
CORE #2	4.99	Std Dev	1.72
CORE #3	1.22		
CORE #4	0.65		
CORE #5	1.86		

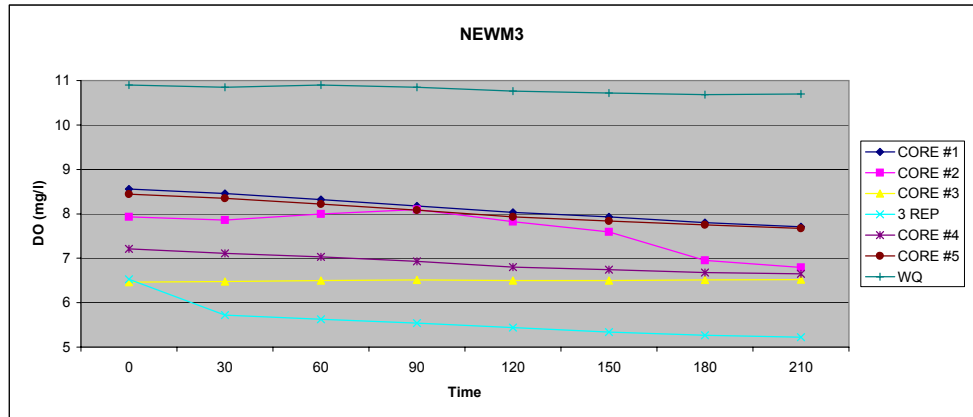
SOD ANALYSIS

TIME	Dissolved Oxygen (mg/l)							
	CORE #1	CORE #2	CORE #3	3 REP	CORE #4	CORE #5	WQ	
1830	0	8.56	7.93	6.46	6.53	7.21	8.44	10.90
1900	30	8.46	7.86	6.48	5.72	7.11	8.35	10.85
1930	60	8.32	8.00	6.50	5.63	7.03	8.22	10.90
2000	90	8.18	8.10	6.51	5.54	6.93	8.08	10.85
2030	120	8.03	7.82	6.50	5.44	6.80	7.93	10.76
2100	150	7.93	7.59	6.50	5.34	6.74	7.84	10.72
2130	180	7.80	6.95	6.51	5.27	6.68	7.75	10.68
2200	210	7.71	6.79	6.52	5.22	6.65	7.67	10.70

SOD Ave	2.67
Standard Deviation	1.82

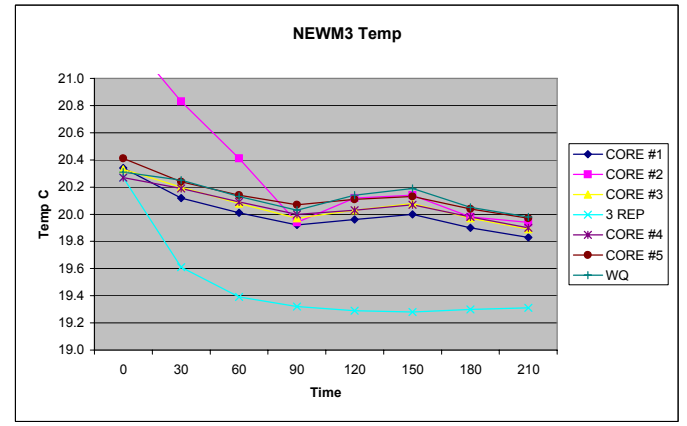
2.00	5.86	N/A	1.74	1.38	2.39
SOD					

Analyzed by: Tim Bridges
 Samples collected by: Matt Arvanites, Morgan Lindenmayer, Sam Burke



Temperature (C)

TIME	Temperature (C)						
	CORE #1	CORE #2	CORE #3	3 REP	CORE #4	CORE #5	WQ
1830	20.3	21.3	20.3	20.3	20.3	20.4	20.3
1900	20.1	20.8	20.2	19.6	20.2	20.2	20.3
1930	20.0	20.4	20.1	19.4	20.1	20.1	20.1
2000	19.9	19.9	20.0	19.3	20.0	20.1	20.0
2030	20.0	20.1	20.0	19.3	20.0	20.1	20.1
2100	20.0	20.1	20.1	19.3	20.1	20.1	20.2
2130	19.9	20.0	20.0	19.3	20.0	20.0	20.1
2200	19.8	19.9	19.9	19.3	19.9	20.0	20.0



Station # **NEWM4** Deep Hole

AMBIENT WATER

Water Column Height (meters)	
1	0.365
2	0.362
3	0.436
4	0.364
5	0.365

Time	1200
Date	7/1/2008
Tide	mid ebb

Other	
Analytes	
Grainsize	

Adjusted SOD w/ DO

CORE #1	0.58	SOD ave	0.66
CORE #2	0.72	Std Dev	0.18
CORE #3	0.87		
CORE #4	0.45		
CORE #5	x		

SOD ANALYSIS

Dissolved Oxygen (mg/l)

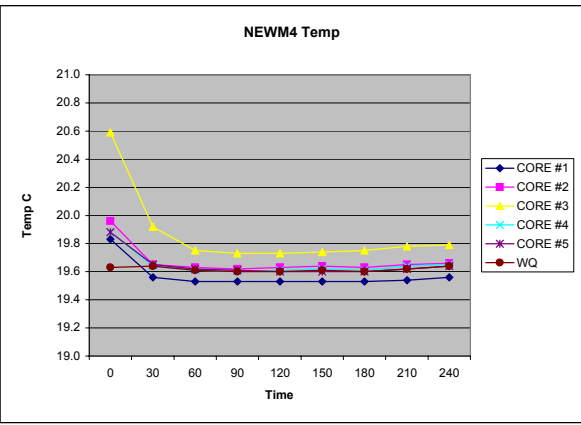
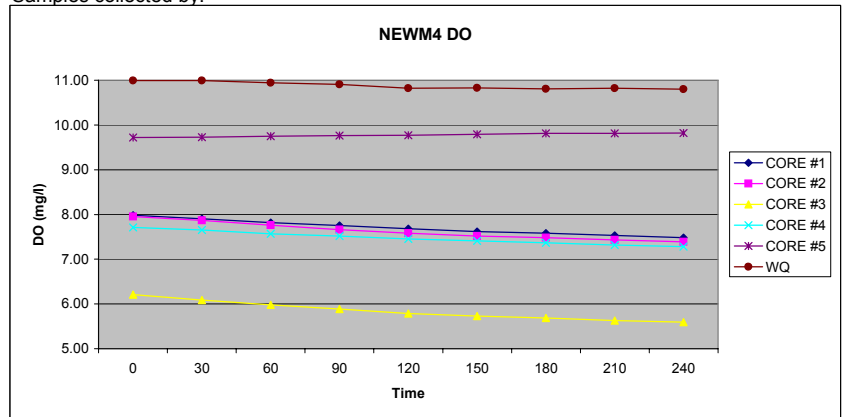
Temperature (C)

TIME	CORE #1	CORE #2	CORE #3	CORE #4	CORE #5	WQ
1206	7.98	7.95	6.21	7.71	9.72	10.99
1236	7.90	7.87	6.09	7.65	9.73	10.99
1306	7.82	7.76	5.98	7.57	9.75	10.94
1336	7.75	7.66	5.89	7.52	9.76	10.91
1406	7.68	7.58	5.79	7.45	9.77	10.82
1436	7.62	7.52	5.73	7.41	9.79	10.83
1506	7.58	7.48	5.69	7.37	9.81	10.81
1536	7.53	7.43	5.63	7.32	9.81	10.82
1606	7.48	7.39	5.59	7.28	9.82	10.80

CORE #1	CORE #2	CORE #3	CORE #4	CORE #5	WQ
19.8	20.0	20.6	19.9	19.9	19.6
19.6	19.7	19.9	19.6	19.7	19.6
19.5	19.6	19.8	19.6	19.6	19.6
19.5	19.6	19.7	19.6	19.6	19.6
19.5	19.6	19.7	19.6	19.6	19.6
19.5	19.6	19.7	19.6	19.6	19.6
19.5	19.6	19.8	19.6	19.6	19.6
19.5	19.7	19.8	19.6	19.6	19.6
19.6	19.7	19.8	19.7	19.6	19.6

SOD Ave	1.13	1.05	1.19	1.36	0.92	N/A
Standard Deviation	0.19	SOD				

Analyzed by: _____
 Samples collected by: _____



Station # **NEWM5** Off of Docks @ Yacht Club

AMBIENT WATER

Water Column Height (meters)	
1	0.295
2	0.300
3	0.330
4	0.290
5	0.342

Time	700
Date	7/2/2008
Tide	low

Other	
Analytes	
Grainsize	

Adjusted SOD w/ DO

CORE #1	4.73	SOD ave	2.44
CORE #2	0.7	Std Dev	1.85
CORE #3	3.66		
CORE #4	2.66		
CORE #5	0.47		

SOD ANALYSIS

TIME

Dissolved Oxygen (mg/l)

CORE #1 CORE #2 CORE #3 CORE #4 CORE #5 WQ

925	0	7.08	8.08	7.94	8.08	8.11	9.11
955	30	6.83	7.93	7.59	7.77	7.81	8.92
1025	60	7.71	7.76	7.26	7.46	7.74	8.84
1055	90	6.76	7.69	6.96	7.25	7.66	8.91
1125	120	6.23	7.58	6.67	6.99	7.54	8.78
1155	150	5.77	7.54	6.42	6.78	7.49	8.78
1225	180	5.29	7.45	6.10	6.50	7.43	8.84
1255	210	5.00	7.39	5.91	6.34	7.39	8.82
1325	240	4.86	7.31	5.69	6.15	7.33	8.64

Temperature (C)

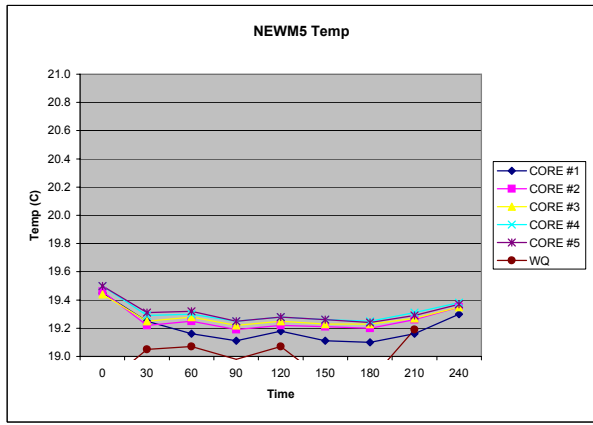
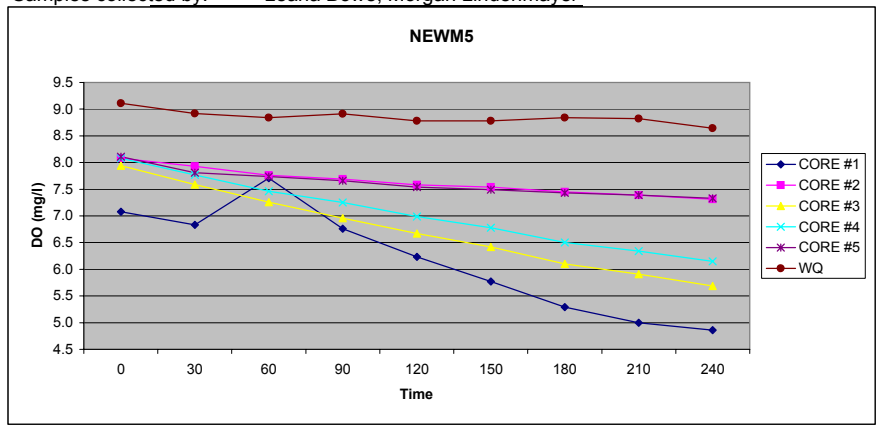
CORE #1 CORE #2 CORE #3 CORE #4 CORE #5 WQ

19.5	19.5	19.4	19.5	19.5	18.8
19.3	19.2	19.3	19.3	19.3	19.1
19.2	19.3	19.3	19.3	19.3	19.1
19.1	19.2	19.2	19.3	19.3	19.0
19.2	19.2	19.3	19.3	19.3	19.1
19.1	19.2	19.2	19.3	19.3	18.8
19.1	19.2	19.2	19.3	19.2	18.8
19.2	19.3	19.3	19.3	19.3	19.2
19.3	19.4	19.4	19.4	19.4	

SOD Ave **2.98**
Standard Deviation **1.75**

4.99	1.27	4.29	3.22	1.12
SOD				

Analyzed by: _____
Samples collected by: Leaha Bowe, Morgan Lindenmayer



Station # **NEWM6** Woodward Cove

AMBIENT WATER

Water Column Height (meters)	
1	0.371
2	0.375
3	0.452
4	0.408
5	0.412

Time	7/2/2008
Date	7:30
Tide	mid flood

Other	
Analytes	
Grainsize	

Adjusted SOD w/ DO

CORE #1	2.92	SOD ave	1.66
CORE #2	N/A	Std Dev	1.79
CORE #3	N/A		
CORE #4	0.39		
CORE #5	N/A		

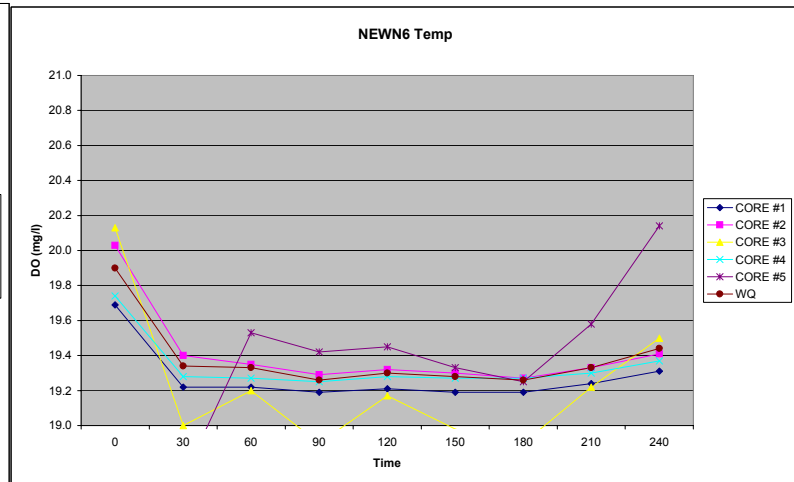
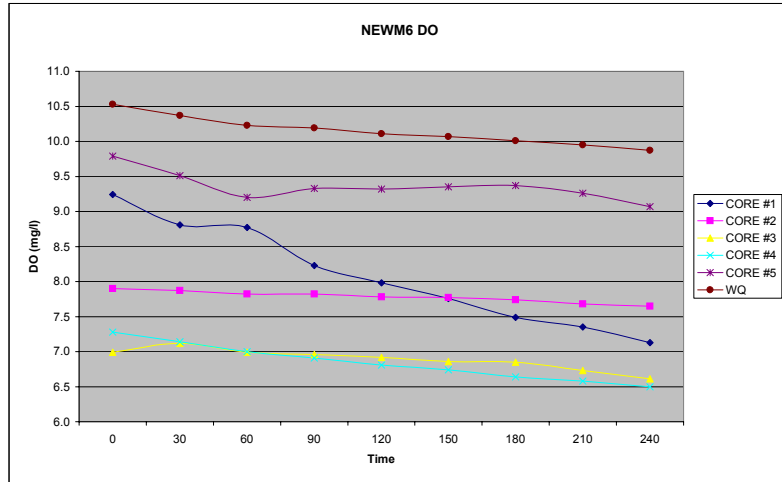
SOD ANALYSIS

TIME	SOD	Dissolved Oxygen (mg/l)					WQ
		CORE #1	CORE #2	CORE #3	CORE #4	CORE #5	
923	0	9.24	7.90	6.99	7.28	9.79	10.53
953	30	8.81	7.87	7.12	7.14	9.51	10.37
1023	60	8.77	7.82	6.99	7.00	9.20	10.23
1053	90	8.23	7.82	6.96	6.91	9.33	10.19
1123	120	7.98	7.78	6.92	6.81	9.32	10.11
1153	150	7.76	7.77	6.86	6.74	9.35	10.07
1223	180	7.49	7.74	6.85	6.64	9.37	10.01
1253	210	7.35	7.68	6.73	6.58	9.26	9.95
1323	240	7.13	7.65	6.61	6.50	9.07	9.87

TIME	Temperature (C)					WQ
	CORE #1	CORE #2	CORE #3	CORE #4	CORE #5	
923	19.7	20.0	20.1	19.7	18.4	19.9
953	19.2	19.4	19.0	19.3	18.7	19.3
1023	19.2	19.4	19.2	19.3	19.5	19.3
1053	19.2	19.3	18.9	19.3	19.4	19.3
1123	19.2	19.3	19.2	19.3	19.5	19.3
1153	19.2	19.3	19.0	19.3	19.3	19.3
1223	19.2	19.3	18.9	19.3	19.3	19.3
1253	19.2	19.3	19.2	19.3	19.6	19.3
1323	19.3	19.4	19.5	19.4	20.1	19.4

SOD Ave	2.05	4.71	0.56	1.13	1.79	N/A
Standard Deviation	1.84	SOD				

Analyzed by: Morgan Lindenmayer
 Samples collected by: _____



Measurement of Sediment Oxygen Demand (SOD) in the New Meadows/ Quahog Bay, Maine

Summer 2008

Project Work/QA Plan

U.S. Environmental Protection Agency
Region 1, New England

Office of Environmental Measurement and Evaluation
Ecosystem Assessment Unit

Project Work/QA Plan Acceptance

EPA QA Officer

Steve DiMattei
Steve DiMattei, EPA/OEME/EQA

Date: 6/27/08

EPA Project Officer

Tim Bridges
Tim Bridges, EPA/OEME/ECA

Date: 6/27/08

Friends of Casco Bay

Mike Doan, Water Quality Specialist

Date:

1.0 Project Overview

Friends of Casco Bay and EPA's Region 1 Office of Environmental Protection (OEP) has requested the Office of Environmental Measurement and Evaluation (OEME) assistance in evaluating the sediment oxygen demand (SOD) in the New Meadows River and Quahog Bay in the tidal estuary as well as the deep hole of New Meadows River above the Route 1 bridge. Friends of Casco Bay is requesting that the SOD testing be performed to aid in identifying the significance of sediment oxygen demand at these two river basins as well as looking at five year trends in sediment from the 2003 sampling event conducted by EPA. These investigations will provide the Friends of Casco Bay with measured rates of SOD at stations in the New Meadows River and Quahog Bay. The SOD rates will also be used to identify areas of potential concern.

The site selections are based on known areas of low dissolved oxygen as well as historical 2003 sampling SOD sites in the New Meadows River and Quahog Bay. Sites are in areas where there is the best chance of finding fine sediment with lower dissolved oxygen including behind impoundments. Site descriptions are shown in Table 2 . Sample locations will be displayed on in map in the final report. Each core sampling location will be documented through the use of Global Positioning System (GPS).

A list of key stakeholders for this project is found in Table 1.

Table 1. Key Stakeholders

Friends of Casco Bay	USEPA Quality Assurance	USEPA Project Officer(s)	EPA Laboratory Activities	Field Activities
Mike Doan	Tom Faber	Tim Bridges	Tim Bridges	USEPA

2.0 SOD Method Summary

This method involves confining a measurable volume of sediment and its overlying water, in a core sample and measuring the depletion of dissolved oxygen over time. Sediment sample cores are taken and transferred to a temperature controlled water bath. The dissolved oxygen concentration within these cores is measured over a specified period of time. Following the monitoring period, the SOD of the sediment is calculated. See Sediment Oxygen Demand Determination SOP 6.0 attached in Appendix A.

SOD is the total of biological and chemical processes in sediment that utilize oxygen. SOD studies are useful in the development of predictive mathematical models that will determine waste load allocations. They are also useful in measuring the depletion of oxygen in stratified waters when there are concerns about nutrient regeneration and the loss of aquatic life.

3.0 Interferences and Potential Problems

Sampling will be conducted at low energy depositional areas that are deep holes for this project. Every effort will be made to collect depositional sediment rather than sand or gravel. Sand and gravel does not bind the contaminants that may be present. In addition, sediment samples should be collected up gradient of major bridge and roadways to avoid contaminants from road runoff. There are no significant known interferences for this project.

4.0 Sample Handling and Preservation

TOC and grain size samples will be preserved on ice in a cooler until they arrive at the laboratory. Samples will then be refrigerated at 4°C. Table 4 and 5 list the holding time and preservation necessary for each parameter collected. The sample label will contain the following information: sample number; sample location or identifier; date and time of collection; and sampling personnel. Samples for SOD will have analysis performed within 4 hours of collection. Samples will be warmed to close to 20°C before analysis. Samples will be collected according to the SOD SOP in Appendix A.

A bound field notebook will be maintained by field personnel to record sample collection information. A chain of custody form will be used to document the types and numbers of samples collected and logged. The sample storage coolers will be taped with signed chain-of-custody tape while the samples are being stored in the mobile laboratory.

5.0 Station Monitoring

Table 2. Sediment Station Descriptions and Locations

Station #	Station Description	Latitude	Longitude
		Deg Min Sec	Deg Min Sec
1-QHS	<i>Deep Hole west of Southern tip of Pole Island in Quahog Bay</i>	43. 47 70 N	69. 55 50 W
2-QHS	<i>North Ledge in Quahog Bay</i>	43. 48 60 N	69. 55 00 W
3-NEWM	<i>New Meadows Upper Lake Deep Hole</i>	43. 49 40 N	69. 52 10 W
4-NEWM	<i>New Meadows Lower Lake Deep Hole</i>		
5-NEWM	<i>New Meadows at Marina</i>		
6-NEWM	<i>New Meadows River at Woodward Cove by Gurnet Point</i>		

6.0 Analytical Parameters

Analyses for SOD and dissolved oxygen will be conducted in the OEME Mobile Biology Trailer on site near the study areas. Grain Size and TOC will be performed at OEME when

crews arrive back from the field and after they are logged into the sample custodian. Refer to Appendix A for sample collection procedure.

Table 3: Analytical Parameters for Water

Parameter	# of Samples	Container	Method	Preservation	Holding Times
Dissolved Oxygen	6	N/A	SM 4550 O G	N/A	Immediate
Temperature	6	N/A	SM 2550 B	N/A	Immediate

Table 4: Sediment Analytical Parameters

Parameter	# of Samples	+Dup. ¹	Total	Container	Method	Preservation	Holding Times
SOD	6	N/A	6	5 Acrylic Cores/site	OEME SOD SOP 7/07 REV 6.0	N/A	none
Grain Size	6	1	7	250 ml WM glass jar	OEME	Ice 4°C	28 days

¹ Duplicates samples will be collected in the field.

Table 5: Water Analytical References and QC Goals

Parameter	# of Samples	Ranges	Precision	Accuracy	Completeness
Dissolved Oxygen	6	0.02 to 10.0 mg/L	± 0.1 mg/L	± 0.1 mg/L	90%
Temperature	6	- 5.0 to + 50.0°C	N/A	± 0.1 °C	95%

Table 6: Sediment Analytical References and QC Goals

Parameter	# of Samples	Range	Precision	Accuracy	Completeness
SOD	6	0.02 - 3.99 (g O ₂ /M ² /day)	Multi-core, Standard Deviation <50 %	±0.1 (g O ₂ /M ² /day)	90%

7.0 Project Schedule

1) Scoping Meeting	6/17/08
2) Site Recon	6/17/08
3) Collect water and sediment samples	6/30 -7/02/08
4) Complete sediment oxygen demand analysis and testing	7/02/08
5) Complete all analytical reports and release data	11/30/08
6) Complete assessment report incorporating all data	11/30/08
7) Meet with MDEP to discuss data	by 11/30/08

8.0 Data Quality

The quality of the data is to be within ranges associated with the specific approved protocols. Refer to parameter methods and standard operating procedures for more information.

Data Representativeness:

The sample must be representative of conditions existing at the time of sample collection. Field and laboratory conditions, which may affect sample integrity, are to be documented in the field logbook. At least 80% of the data must be determined to be representative for the project to be considered complete.

Laboratory Data Evaluation:

After data is review by the analyst, it is reviewed and signed off for release by the Field Project Manager and Acting EMT Team Leader.

Corrective Action:

When it is found that data is incomplete or that results are unacceptable, the Project Officer may determine that one or more of the following procedures for corrective action shall be undertaken:

1. Incomplete data:

Omissions from logs, notebooks and worksheets place the entire analysis in question. If data does not meet the 90% data completeness requirement, a meeting will be held with the analyst and QA officer to determine an appropriate response. Incomplete field sampling data may require re- sampling of the questionable location. Incomplete laboratory data usually calls for reintroduction or re- analysis of the questionable sample if feasible.

2. Conflicting or poor quality data:

When results from duplicates, spikes, blanks, etc. do not meet the described QC goals, the project officer and QA officer will review the available data. Upon examination, all or some of the following actions may be applied:

- a. Systems audit for analyte in question.
- b. Determination of matrix interference.
- c. Re-sampling of the questionable sample.
- d. Reconsideration of acceptable limits with statements explaining the results of the action/rationale taken.
- e. Rejection of data and exclusion from the report with written explanation.
- f. Rejection of the entire sample/site location with recommendation of relocation of sample site or reconsideration of results.

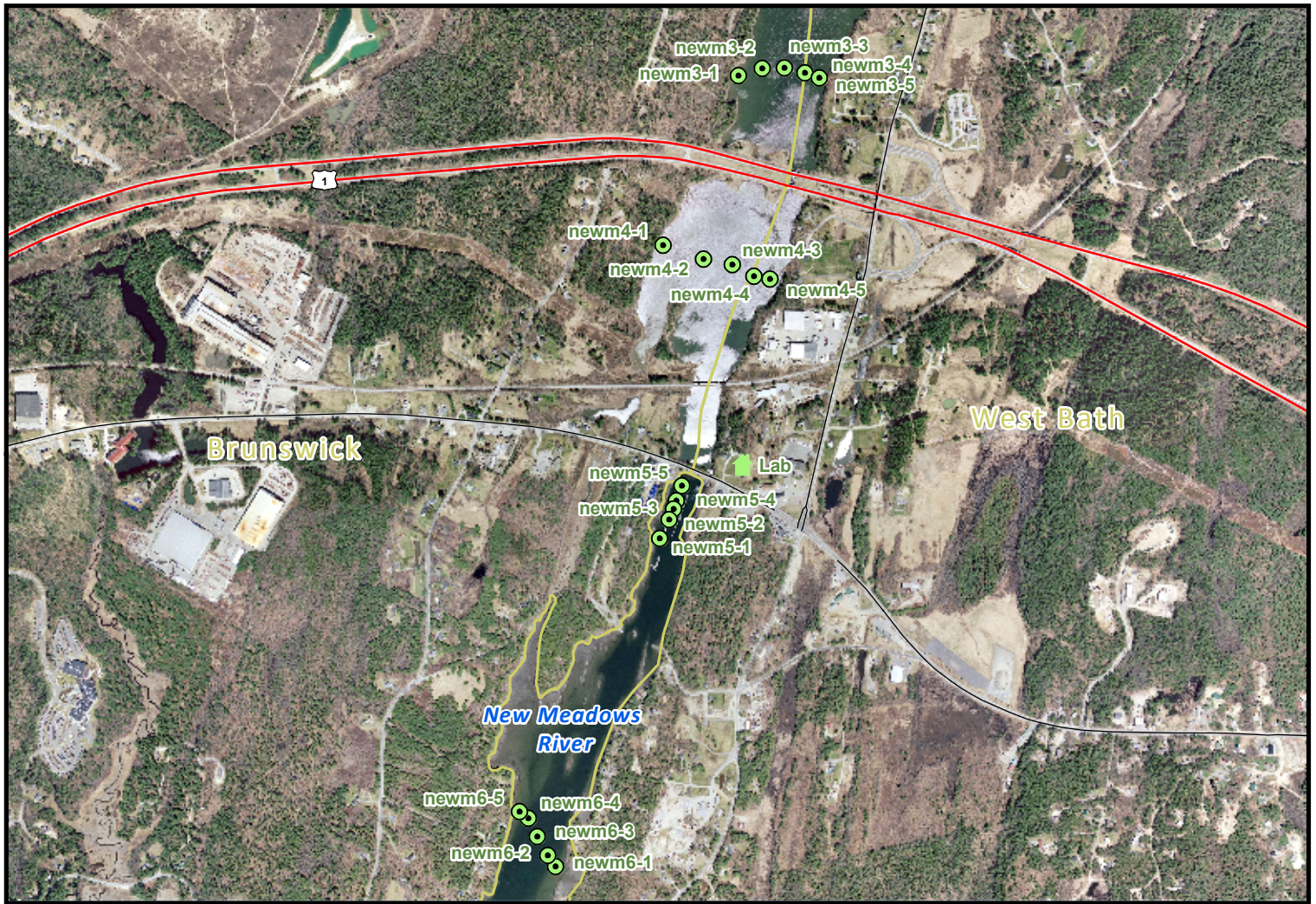
9.0 Final Report

The final report will include all analytical results and water/sediment quality evaluations. The report will be written by Tim Bridges and sent to Diane Gould at OEP and Mike Doan, Friends of Casco Bay for future decision-making. If necessary, a meeting will be scheduled when the final report is released to discuss the results and future monitoring. A copy will remain in OEME central files. Other copies will be available upon request.

10.0 Reconciliation with Project Objectives

If the project objectives stated in section 1.0 and the QC goals in Tables 5 and 6 are met then the project goals have been met. If the project goals have not been met, project management will meet to determine future work under this QAPP.

Quahog Bay and New Meadows SOD Station Locations



0 0.25 0.5 Miles

 SOD Station Location

Map Produced by the EPA New England GIS Center - December 12, 2009 - Task ID 4934



New Meadows/Quahog Bay GPS Points

Latitude	Longitude	Station	PDOP	Date	Time	# of Pos	Horiz Acc
decdeg	decdeg				EDT		meters

43.920814	-69.866788	NEWM3-1	2.7	6/30/2008	03:51:12pm	20	0.7
43.920961	-69.865958	NEWM3-2	2.6	6/30/2008	03:54:37pm	21	0.8
43.920947	-69.865192	NEWM3-3	2.1	6/30/2008	04:03:37pm	20	0.6
43.920904	-69.865200	NEWM3-3rep	2.4	7/1/2008	08:41:01am	23	0.5
43.920791	-69.864491	NEWM3-4	2.4	7/1/2008	08:43:55am	20	0.5
43.920644	-69.863989	NEWM3-5	2.4	7/1/2008	08:47:06am	21	0.5

43.916681	-69.869698	NEWM4-1	3.5	7/1/2008	09:32:12am	21	0.7
43.916289	-69.868336	NEWM4-2	4.7	7/1/2008	09:42:33am	20	0.6
43.916113	-69.867350	NEWM4-3	2.4	7/1/2008	09:48:07am	21	0.6
43.915789	-69.866632	NEWM4-4	3.0	7/1/2008	10:05:45am	20	0.8
43.915700	-69.866073	NEWM4-5	2.6	7/1/2008	10:12:37am	20	0.7

43.806860	-69.915228	QHG 2-1	2.3	7/1/2008	02:58:10pm	23	0.6
43.807243	-69.916747	QHG 2-2	3.8	7/1/2008	03:03:38pm	21	0.7
43.807901	-69.917863	QHG 2-3	2.2	7/1/2008	03:11:14pm	23	0.6
43.808678	-69.918690	QHG 2-4	2.5	7/1/2008	03:30:08pm	21	0.7
43.808613	-69.921099	QHG 2-5	3.6	7/1/2008	03:39:53pm	34	1

43.793883	-69.928612	QHG 1-5	3.6	7/1/2008	03:53:40pm	23	0.9
43.794045	-69.927853	QHG 1-4	3.4	7/1/2008	04:15:10pm	21	0.7
43.793894	-69.927032	QHG 1-3	3.4	7/1/2008	04:31:46pm	21	0.8
43.793697	-69.926292	QHG 1-2	3.3	7/1/2008	04:35:35pm	20	0.7
43.793651	-69.925827	QHG 1-1	2.9	7/1/2008	04:41:34pm	20	0.8

43.901342	-69.874582	NEWM6-1	5.9	7/2/2008	07:35:34am	21	0.8
43.901637	-69.874835	NEWM6-2	2.2	7/2/2008	07:39:55am	21	0.7
43.902119	-69.875158	NEWM6-3	3.2	7/2/2008	07:44:34am	20	0.7
43.902582	-69.875424	NEWM6-4	3.4	7/2/2008	07:48:29am	20	0.6
43.902761	-69.875718	NEWM6-5	2.2	7/2/2008	07:53:53am	20	0.6

43.910670	-69.869500	NEWM5-5	5.5	7/2/2008	09:29:14am	22	0.9
43.910301	-69.869721	NEWM5-4	2.0	7/2/2008	09:30:43am	30	0.6
43.910100	-69.869849	NEWM5-3	3.4	7/2/2008	09:31:39am	34	0.6
43.909846	-69.870017	NEWM5-2	2.4	7/2/2008	09:32:44am	33	0.6
43.909384	-69.870380	NEWM5-1	3.6	7/2/2008	09:34:02am	38	0.8

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