



**US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT**
Total Environmental Restoration Contract
USACE Contract Number: DACW33-03-D-0006
Task Order No. 0001

**2006 DREDGE SEASON DATA SUBMITTAL
NEW BEDFORD HARBOR
REMEDIAL ACTION**
New Bedford Harbor Superfund Site
New Bedford, MA

January 2007

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Table 2-1
Wastewater Treatment Plant Discharge Goals
New Bedford Harbor Superfund Site - 2006 Season

Analysis	Surface Water Discharge
	Treatment Goal (µg/L) ⁽¹⁾
PCB Aroclor ⁽²⁾	0.065
Metals	
Cd ⁽³⁾	9.3
Cr ⁽⁴⁾	50
Cu ⁽⁵⁾	5.6
Pb ⁽⁶⁾	8.5

Notes:

- 1) µg/L = micrograms per liter
- 2) Per Polychlorinated biphenyl (PCB) Aroclor
- 3) Cd = Cadmium
- 4) Cr = Chromium
- 5) Cu = Copper
- 6) Pb = Lead

ATTACHMENT A

Dredge Planning and Progress Figures

ATTACHMENT B

Summary of 2006 Activities

Attachment B
Summary of 2006 Activities
New Bedford Harbor Superfund Project

Date	Activity	Summary
Revise/Submit Planning Documents		
Draft April 2004, Final July 2004, Addendum No. 1 May 2005 Addendum No. 2 April 2006	<i>Execution Plan 2004, 2004 New Bedford Harbor Remedial Action, New Bedford Harbor Superfund Site, New Bedford, MA. Draft Addendum No. 1 to Execution Plan 2004, 2005 New Bedford Harbor Remedial Action. Draft Addendum No. 2 to Execution Plan 2004, 2005 New Bedford Harbor Remedial Action</i>	Submittal of <i>Addendum No. 2 to the Execution Plan</i> outlining the remediation of the New Bedford Superfund Site to be accomplished for the 2006 field season.
Draft April 2004, Final September 2004	Site Specific Safety & Health Plan	The following documents were not revised in 2006.
Draft May 2004, Final September 2004	Emergency Response Contingency Plan	
Draft May 2004, Final September 2004, Revised September 2005	Construction Quality Control Plan	
Draft May 2004, Final August 2004, Revised August 2005, Revised December 2005	Field Sampling Plan	
Draft June 2004, Final September 2004, Revised May 2005	Quality Assurance Program Plan	
Draft July 2004, Final November 2004, Revised August 2005	Regulatory Compliance Plan	
Draft May 2004, Final September 2004, Revised August 2005	Transportation & Temporary Storage Plan	
Draft May 2004, Final August 2004, Revised August 2005	Environmental Protection Plan	

Attachment B
Summary of 2006 Activities
New Bedford Harbor Superfund Project

Date	Activity	Summary
Submittal of Initial Task Order/Subsequent Modifications		
	Modification 12	Tasks under Mod. 12 include the following: <i>Execution Plan, After Action Report, Remedy Analysis, Bulkhead Monitoring, Asbestos Survey at Aerovox, and General Site Operations and Maintenance (O&M).</i>
	Modification 13	Tasks under Mod. 13 were for the following: All of the activities associated with the 2006 CAD cell investigation including preparation, boring installation, and reporting.
	Modification 14	Tasks under Mod. 14 were for the following: The O&M activities for the second half of the 2006 season.
	Modification 15	Tasks under Mod. 15 were for the following: The mobilization, demobilization, and transportation and disposal costs associated with the first 20 days of dredging in 2006.
	Modification 16	Tasks under Mod. 16 were for the following: This task is associated with the incentive fee for Project 02.
	Modification 17	Tasks under Mod. 17 were for the following: The tasks associated with an additional 20 days of processing and the associated transportation and disposal of dredged material.
	Modification 18	Tasks under Mod. 18 were for the following: This task is associated with the transportation and disposal of Toxic Substances Control Act (TSCA) material generated during the 2004, 2005, and 2006 dredge seasons. This material was stored at the Area C Debris Disposal Area (DDA).
	Modification 19	Tasks under Mod. 19 were for the following: For an additional 5 days of dredging.
	Modification 20	Tasks under Mod. 20 were for the following: Reporting of 2006 season, planning, and technical support for 2007 and for the 2007 O&M season.

Attachment B
Summary of 2006 Activities
New Bedford Harbor Superfund Project

Date	Activity	Summary
Mobilization Activities		
July/August 2006	Mobilization of Equipment and Personnel Associated with 2006 Dredging Activities	The 2006 remobilization activities included the installation of sheet piles in Dredge Areas A, B, C, and D, mobilizing the dredges and associated dredge pipelines, staging the combined booster pump/ferric injection system at Manomet Street, and the staging of a second booster pump station at Aerovox. At Area D, the major activities were the rebuilding of the conveyor belts at the filter presses and the replacement of granular activated carbon in four lag vessels. The remainder of the mobilization activities incurred general maintenance and repair activities necessary to initiate dredging.
August 2006	Booster Pump(s) and Ferric System Setup	Combination of booster pump and ferric sulfate injection system at Manomet Street and the associated booster pump station at Aerovox. Preparatory meeting (7/25/06), Initial Inspection (7/31/06), and Follow-up Inspection & Quality Control Report (QCR #23 - Automated Ferric Injection System).
August 2006	Service Test Pipelines and Preparation Shakedown; Dredge Systems, Area C and D	Dredge and slurry pipelines. Preparatory meeting (8/8/06), Initial Inspection (8/15/06) and Follow-up Inspection & Quality Control Reports (QCR #18 - 10-inch Pipe Pressure Test and QCR #19 - Scale Inspections 2006, and QCR #20 - Pipeline Service Test).
August 2006	Transportation & Disposal	Preparatory meeting (8/1/06), Initial Inspection (8/23/06).
Dredging and Associated Activities		
8/16/2006	Initiated dredging activities in Dredge Area A (primarily Dredge Management Unit-1 [DMU-1] and Dredge Area C (primarily DMU-2)	This included the start-up activities for the following support operations: Sampling (preparatory meeting [8/11/06] and initial inspection [8/17/06]).
8/16/2006	Initiate loading of Rail Cars with Filter Cake at Area D	The waste management process (including rail) was initiated with the 8/1/06 preparatory meeting and the subsequent 8/23/06 initial inspection. Follow-up Inspection & Quality Control Report (QCR#22 - Railcar Loading).

Attachment B
Summary of 2006 Activities
New Bedford Harbor Superfund Project

Date	Activity	Summary
Dredging and Associated Activities (continued)		
9/11 through 9/15/06	Trucks were also loaded with Filter Cake at Area D during this period to supplement the rail cars.	Trucks were used in addition to rail cars because of increased filter cake production and slower than anticipated turn around time for the rail cars to return from the disposal facility.
9/21 through 9/26/06	During dredging activities in Dredge Area A (adjacent to the Aerovox shoreline), volatile organic compounds (VOCs) were detected in the breathing zone in the Desanding Plant at Area C. Therefore, operations at Area C desanding plant were conducted in Level B (supplied air).	The workers in the desanding plant were placed on supplied air (Level B) during this period. Based upon the levels of VOCs detected in the desanding plant, the decision was made to discontinue dredging activities in the high VOC area. Following testing of the air within the Desanding Building at Area C, the required personnel protection equipment (PPE) was downgraded from Level B (supplied air) to Level D based upon the levels of VOCs detected in the desanding plant.
9/26/2005	Debris removal activities were completed in the 2006 Dredge Footprint.	On September 26, 2006, debris removal activities in the active dredge areas were completed for the 2006 season. In addition, at the direction of the EPA and NAE, debris removal activities were conducted on the eastern boundary of proposed Confined Disposal Facility (CDF) A, along the eastern boundary of Dredge Area B.
10/11 through 10/13/06	Sand and coarse materials were transported offsite from the Area C DDA stockpiles.	During this period, H & S, the subcontracted transportation and disposal subcontractor, removed approximately 914 tons of sand and coarse material from the existing Area C stockpiles.
10/13/2006	Completed the first 40 days of Dredging	This is for the dredging activities completed under Mods 15 and 17, which both included 20 days of dredging.
10/18/2006	Completed the 2006 Dredge Season	These final days of dredging were completed under Mod 19.

Attachment B
Summary of 2006 Activities
New Bedford Harbor Superfund Project

Date	Activity	Summary
10/16 through 10/31	Additional sand and coarse materials were transported offsite from the Area C DDA stockpiles	During this period, H & S removed approximately 2,595 tons of additional sand and coarse material from the existing Area C stockpiles. This activity was conducted under Mod. 19.
Air Monitoring Activities		
Not Conducted in 2006	Pre-Dredge Background Sampling	In 2006, pre-dredge sampling activities were not conducted.
8/30-31/2006	1st Round of Monthly Air Sampling	During this sampling round and the two subsequent 2006 sampling rounds, one (1) duplicate and one (1) field blank were also collected and submitted for analysis. In addition, the samples during each of the three rounds were collected with polyurethane foam (PUF) samples with glass fiber pre-filter using a BGI, PQ-1, Low-Vol sampler. Air samples were collected from six (6) sampling locations. Preparatory Meeting (8/30/06), Initial Inspection 8/30/06, and the follow-up Inspection Quality & Control Report (QCR #26 - Air Sampling Audit).
10/4-5/2006	2nd Round of Monthly Air Sampling	Air samples were collected from six (6) sampling locations.
11/17-18/2006	Post Dredge Round of Air Sampling	Air samples were collected from five (5) sampling locations.

Attachment B
Summary of 2006 Activities
New Bedford Harbor Superfund Project

Date	Activity	Summary
Bathymetric Survey		
6/6 and 6/9/2006	Pre-Dredge Survey in Dredge Areas A, B, C, and D	Survey conducted by Apex. Preparatory Meeting (8/11/06), Initial Inspection (8/26/06). Follow-up Inspection & Quality Control Report (QCR #27 - Final Bathymetric Survey Data).
8/26/2006	Bathymetric Survey in Dredge Areas A, C, and D	Survey conducted by Apex.
9/9/2006	Bathymetric Survey in Dredge Area A	Survey conducted by Apex.
9/16/2006	Bathymetric Survey in Dredge Areas A and C	Survey conducted by Apex.
9/23/2006	Bathymetric Survey in Dredge Areas A and C	Survey conducted by Apex.
10/7/2006	Bathymetric Survey in Dredge Area A and the survey of Dredge Area C was cut short due to tides	Survey conducted by Apex.
10/26/2006	First Final Bathymetric Survey in Complete 2006 Dredge Area	Survey conducted by Apex. The survey data from this survey was not used due to the poor data quality, which was attributed to the high winds that were experienced during this survey.
11/7/2006	Second Final Bathymetric Survey in Complete 2006 Dredge Area	Survey conducted by Apex.
Winterization Activities		
10/19/06 - 11/1/06	Winterization	Winterization activities were completed for the following operations: Dredge Areas A, B, C, and D; combined ferric sulfide treatment system/booster pump station at Manomet Street; pump station at Aerovox, docks at Area C; remove debris scows at Area C; remove dredges at Area D; DDA storage; desanding building (Area C); pipeline from dredge area to Area C; and dewatering plant (Area D). Preparatory Meeting (10/17/06), Initial Inspection (10/27/06), Follow-up Inspection Quality & Control Report (QCR #25 - 2006 Winterization).

ATTACHMENT C

VOC Related Information

**Table C-1
Summa Canister Results for Selected VOCs
New Bedford Harbor Superfund Site - 2006 Season**

Location/Sampling Date	VOC Constituent	Concentration (ppbv)	Converted Concentration (ppmv)	8 Hour TLV (ppm)	12 Hour TLV (ppm)	Percent of Individual TLV	Percent of TLV for Sample
Area C Desanding Plant First Sample (9/22/06)	PCE	25	0.025	25	16.67	0.15	
	TCE	1900	1.9	50	33.33	5.7	
	cis 1,2-DCE	660	0.66	200	133.33	0.5	
	Vinyl Chloride	310	0.31	1	0.67	46.5	
							52.85
Area C Desanding Plant Second Sample (9/26/06)	PCE	1.6	0.0016	25	16.67	0.01	
	TCE	35	0.035	50	33.33	0.11	
	cis 1,2-DCE	200	0.2	200	133.33	0.15	
	Vinyl Chloride	69	0.69	1	0.67	10.35	
							10.61
Area D Filter Presses Sample (9/26/06)	PCE	1.2	0.0012	25	16.67	0.01	
	TCE	34	0.034	50	33.33	0.1	
	cis 1,2-DCE	270	0.27	200	133.33	0.2	
	Vinyl Chloride	38	0.038	1	0.67	5.7	
							6.01
Area D WWTP Sample (9/26/06)	PCE	2.2	0.0022	25	16.67	0.01	
	TCE	43	0.043	50	33.33	0.13	
	cis 1,2-DCE	150	0.15	200	133.33	0.11	
	Vinyl Chloride	20	0.02	1	0.67	3	
							3.25

Notes:

The analytical results for the four major VOCs detected are presented in this table. The other VOCs detected are available upon request

cis-1,2-DCE = cis 1,2-dichloroethylene

pbv = parts per billion volume

PCE = Tetrachloroethene

ppm = parts per million

ppmv = parts per million volume

TCE = trichloroethene

TLV = threshold limit value

VOC = volatile organic compounds

Table C-2
VOC and PCB Results for Area C and D GAC Effluent
New Bedford Harbor Superfund Site - 2006 Season

Sampling Date	Sampling Location	Analyte ⁽¹⁾	Concentration (ppmv)
10/18/06	Area C Desanding Plant GAC Filter Effluent	PCE	ND
		TCE	ND
		cis 1,2-DCE	0.46
		Vinyl Chloride	0.016
		PCBs	ND
10/18/06	Area D Mix Tank GAC Filter Effluent	PCE	ND
		TCE	30
		cis 1,2-DCE	33
		Vinyl Chloride	ND

Notes:

- 1) At Area C, both volatile organic compound (VOCs) and polychlorinated biphenyls (PCBs) were analyzed for. Only VOC samples were collected and submitted for analysis from Area D. The VOCs samples were collected using low flow Summa canisters, which were run for 8 hours and 1/2 hours at Area C and D, respectively. The PCBs were collected using low flow sampling (EPA TO-10A Methodology) over a duration of 2 hours.
- cis-1,2-DCE = cis 1,2-dichloroethylene
GAC = granulated activated carbon
ND = Not detected
PCE = Tetrachloroethene
ppmv = parts per million volume
TCE = trichloroethene

ATTACHMENT D

Sample Analytical Summary Tables

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ATTACHMENT E

Transportation and Disposal Reports

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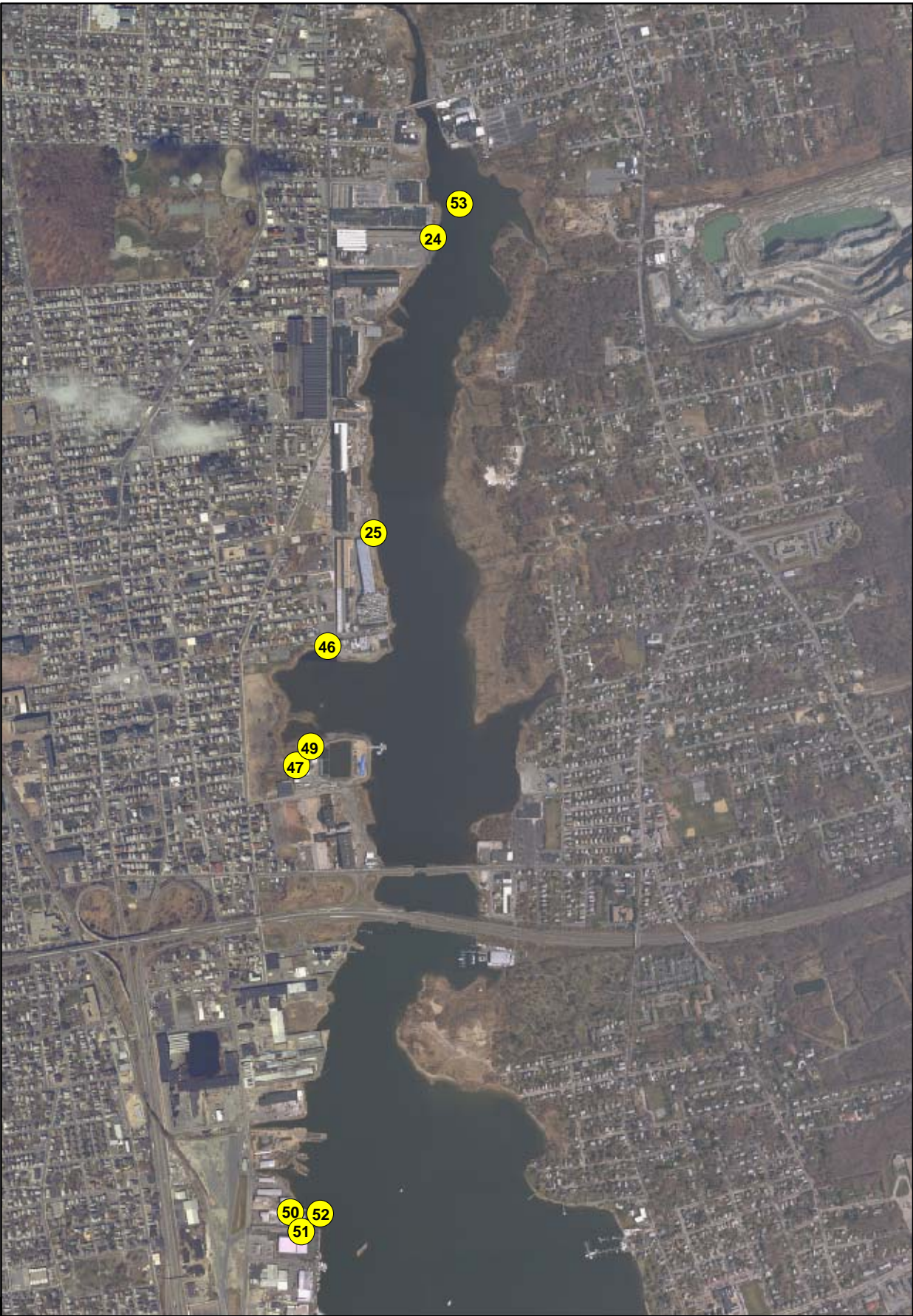
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ATTACHMENT F

Ambient Air Monitoring Information



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<p>Legend</p> <p>Ambient Air Sampling Locations</p> <p>● Sample Station</p>	<p>Aerial Photography MASSGIS 2005</p> <p>0 750 1,500 Feet</p> <p>1:18,000</p>	<p>JE JACOBS</p> <p>2006 Ambient Air Sampling Station Locations</p> <p>New Bedford Harbor Superfund Site</p> <p>NAME: cshbbs DATE: 1/27/2007</p>
		<p>Figure F-1</p>

**Table F-1
Ambient Monitoring
Program - Total Detectable PCBs (Homologues) in Air
New Bedford Harbor Superfund Site - 2005 and 2006 Season**

Station24	Station25	Station25	Station42	Station46	Station47	Station48	Station49	Station50	Station51	Station52	Station53	Station54	Duplicate	Blank	Comments	
Sampling ⁽¹⁾	Aerovox ⁽²⁾	Aerovox west upwind	Cliftex	Nstar	Coffin Ave	Area C downwind	Area C ⁽³⁾ crosswind	Area C downwind	Area D downwind	Area D downwind	Area D downwind	Dredge	Achusnet Park	ng/M ³ sample		
2005 Events																
8.10 to 8.11 Round 1	216	42.1	103	25.9	37.2	NS ⁽⁴⁾	NS	29.3	NS	NS	21.3	NS	49.9	44.1	0.32	Duplicate sample Aerovox West
9.14 to 9.15 Round 2	1,490	37.6	58.2	22.5	99.8	NS	14.9	83.6	0.52	NS	NS	1,280	102	NS	0.26	No Duplicate Sample
9.22 to 9.23 Round 3	178	2.64	35.2	83.3	115	NS	19.1	97	0.26	NS	NS	780	23.9	18.8	0.54	Duplicate sample Station 48, Area C
9.28 to 9.29 Round 4	383	87	104	5.28	124	NS	17.3	44.2	24.2	NS	NS	391	77.9	QA ⁽⁷⁾	1.16	Duplicate sample to Corps Lab
10.5 to 10.6 Round 5	1,822	222	251	119	130	NS	60.1	114	81.7	NS	NS	6,315	180	1,708	0.96	Duplicate sample Aerovox Station 24
10.27 to 10.28 Round 6	15.4	3.97	NS ⁽⁵⁾	32.3	2.06	NS	4.61	12.3	0.01	NS	NS	505	2.73	QA ⁽⁷⁾	0.42	Duplicate sample sent to Corps lab
11.17 to 11.18 Round 7	15.9	0.12	0.12	63.6	0.14	NS	0.139	3.71	NS ⁽⁶⁾	NS	NS	913	3.76	14.9	1.73	Duplicate sample Aerovox Station 24
12.28 to 12.29 Round 8	83.2	10.8	10.9	21.4	65.1	7.42	NS	NS	NS	2.18	NS	NS	13.5	QA ⁽⁷⁾	0.33	Duplicate sample sent to Corps lab
2006 Events																
8.30 to 8.31 Round 1 2006	1,629	NS	176	NS	70.4	39.2	NS	NS	NS	67.3	NS	2,336	NS	1,387	1.57	Duplicate sample Aerovox Station 24
10.4 to 10.6 Round 2 2006	2,357	NS	451 ⁽⁸⁾	NS	108	NS	NS	157	NS	NS	197	13,430	NS	QA ⁽⁷⁾	6.65	Duplicate sample sent to Corps lab
11.18 to 11.19 Round 3 2006	41.1	NS	0.14	NS	4.05	NS	NS	81.4	2.6	NS	NS	NS	NS	0.25	0.74	Duplicate sample Aerovox Station 24

Notes:

- (1) Sampled and analyzed using EPA TO-10A Methodology.
- (2) All results reported for 24 hour time-weighted average in nanograms per cubic meter of air (ng/m³).
- (3) Station 48 was a cross wind location for the 2004 and 2005 season and is no longer sampled.
- (4) NS = Not Sampled.
- (5) Sample tube for 25 Cliftex was broken during transport.
- (6) Sample tube for 50 Area D was broken during analysis preparation.
- (7) Duplicate sent to USACE laboratory.
- (8) During the first day of sampling, the duplicate sample was to be collected at Station 25. However, one of the two sampling pumps failed at Station 25, and these samples were not submitted for analysis. Therefore, the sample and associated duplicate sample were collected on the following day from Station 25 and submitted for analysis.

Table F-2
Ambient PCB Sample Station Locations
New Bedford Harbor Superfund Site - 2006 Season

Station Number	Location	City/Town	Northing	Easting
21	New Bedford Welding	New Bedford	2696913.00000	814013.00000
24 ⁽¹⁾	Aerovox NE corner	New Bedford	2706941.00000	815574.00000
24D ⁽¹⁾	Aerovox duplicate	New Bedford	2706932.00000	815574.00000
25 ⁽¹⁾	Cliftex, Manomet Street	New Bedford	2703854.00000	814907.00000
27	Francis St (Porter)	Fairhaven	2703925.00000	816405.00000
30	Fiber Leather	New Bedford	2705861.00000	815029.00000
30D	Fiber Leather duplicate	New Bedford	2705864.00000	815034.00000
40	Wood St (Titleist)	Acushnet	2705820.00000	814933.00000
41	NSTAR substation	Acushnet	2705524.00000	816074.00000
42	NSTAR North	Fairhaven	2706236.00000	816524.00000
43	Bus Terminal Lot	Fairhaven	2701377.00000	816482.00000
44	Taber St (Pumping Station)	Fairhaven	2698035.00000	816277.00000
45	Cozy Cove Marina	Fairhaven	2684279.00000	817739.00000
46 ⁽¹⁾	Coffin Ave	New Bedford	2703796.00000	814947.00000
47 ⁽¹⁾	Area C Downwind	New Bedford	2701361.00000	814129.00000
48 ⁽¹⁾	Area C Crosswind	New Bedford	2701462.00000	814128.00000
49 ⁽¹⁾	Area C Upwind	New Bedford	2701564.00000	814279.00000
50 ⁽¹⁾	Area D Downwind	New Bedford	2696198.00000	814012.00000
51 ⁽¹⁾	Area D Crosswind	New Bedford	2696500.00000	812858.00000
52 ⁽¹⁾	Area D Upwind	New Bedford	2695390.00000	814397.00000
53 ⁽¹⁾	DMU2 Dredge	Varies	2706636.00000	815839.00000
54	DMU2 DW on barge	Varies	2706333.00000	815917.00000
55	Aerovox West (R7 receptor)	New Bedford	2706728.00000	814540.00000
56	Acushnet Park	New Bedford	2708962.00000	815519.00000

Note:

- 1) Location sampled in 2006. The remainder of the locations were either sampled since remediation was initiated in 2004 or during previous air sampling activities.

Table F-3
Meteorological Data/Tide Data Summary
New Bedford Harbor Superfund Site - 2006 Season

Date	Avg. Wind (mph)	Direction	Min Temp (°F)	Max Temp (°F)	Min Humidity %	Max Humidity %	Barometer (inch)	Avg. Radiation (watts /m ³)	Max Radiation (watts /m ³)	Tide Min (ft msl)	Tide Max (ft msl)
Aug 30, 31	7.38	NNE	57.8	72.5	45.9	96.5	30	278	813	0.60	3.70
Oct 4, 5, 6	10.64	NNE and SSW	46.4	72.4	57	99.7	30.1	183	756	-0.70	5.20
Nov 18, 19	6.78	N	42	52.5	51.2	93	29.86	124	487	0.10	4.30

Notes:

avg. = average
 °F = Fahrenheit
 ft msl = feet mean sea level
 max = maximum
 min = minimum
 mph = miles per hour
 watts/m³ = watts per meter cubed

ATTACHMENT F

Air Sampling Status Reports (PETS Curves)

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 24 Aerovox
Exposure Budget Slope (EBS) = 344 nanograms per cubic meter per day (ng/m³-day)

Collection Date: 11/30/2006

Construction Activity: The 2006 dredging activities were initiated on August 16, 2006 and demobilization activities were completed on November 1, 2006.

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Vol sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the Development of PCB Air Action Levels for the Protection of the Public, New Bedford Superfund Site, August 2001. Cumulative data for this reporting period are included on pages 3 and 4.

Summary of This Sampling Period:

The results from the Baseline Ambient Air Sampling program were used to assign background concentrations for each air sampling location. For Station 24 Aerovox, the quarterly average ambient air PCB concentrations for the June 1999 through May 2000 baseline sampling were used as background concentrations. These background concentrations were used for the inactive field times from 11/12/02 through 9/8/04, for the period from 12/4/04 through 8/10/05, and from 12/28/05 through 8/15/06 to close the recent inactive field season. In addition, to better simulate the 2006 dredging season, the ambient air concentrations from the August 31, 2006 sampling event were used to project concentrations detected at Station 24 Aerovox on August 16, 2006 (the start of dredging activities). This better simulates the ambient air PCB concentrations present at Station 24 Aerovox during the active dredging season. For the first month of the 2004 and 2005 seasons, the sampling was conducted on a weekly basis.

However, since monthly sampling was conducted in 2006, and the first 2006 sampling event was conducted two weeks after the start of dredging, this new variation of the PETs curve was used. Also, the background concentrations were projected to be at background levels at Station 24 Aerovox on October 19, 2006, which is the day after the 2006 dredging activities were completed. These changes in the background concentrations and associated active dredging concentrations better match the actual 2006 dredging activities. Low triggers were identified, which will be evaluated for potential necessary response.

Home Sheet

Monitoring Station		24 Aerovox
Exposure Budget Slope	[ng/m ³ -day]	344
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date (Per EPA)	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m ³]	500,000
TEL for Worker in Public	[ng/m ³]	50,000
NTEL for Worker in Public	[ng/m ³]	1,789
Minimum of TEL/NTEL	[ng/m ³]	1,789
Baseline Average Concentration	[ng/m ³]	75
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limits		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

**Sample Results, Calculated Budget and Exposure Values
24 Aerovox Location**

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaining	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Runnig Sum of Column (C) to Date [days]	[days]	[ng/m ³]	[ng/m ³]	Column (L)/Column (D) [ng/m ³]	EBS ¹ * Column (C) [ng/m ³ -days]	Sum of Column (I) [ng/m ³ -days]	Column (G)* Column (C) [ng/m ³ -days]	Sum of Column (K) [ng/m ³ -days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	67	67.00	67.00	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	67	67.00	67.00	6192	6192	1206.0	1,206.0	19.5%	19.5%
3	12/1/2002	1	19	9476	32	49.50	66.08	344	6536	49.5	1,255.5	14.4%	19.2%
4	2/28/2003	89	108	9387	32	32.00	38.00	30616	37152	2848.0	4,103.5	9.3%	11.0%
5	5/31/2003	92	200	9295	76	54.00	45.36	31648	68800	4968.0	9,071.5	15.7%	13.2%
6	8/31/2003	92	292	9203	130	103.00	63.52	31648	100448	9476.0	18,547.5	29.9%	18.5%
7	11/30/2003	91	383	9112	67	98.50	71.83	31304	131752	8963.5	27,511.0	28.6%	20.9%
8	2/28/2004	90	473	9022	32	49.50	67.58	30960	162712	4455.0	31,966.0	14.4%	19.6%
9	5/31/2004	93	566	8929	76	54.00	65.35	31992	194704	5022.0	36,988.0	15.7%	19.0%
10	8/31/2004	92	658	8837	130	103.00	70.61	31648	226352	9476.0	46,464.0	29.9%	20.5%
11	9/8/2004	8	666	8829	67	98.50	70.95	2752	229104	788.0	47,252.0	28.6%	20.6%
12	9/9/2004	1	667	8828	1024	545.50	71.66	344	229448	545.5	47,797.5	158.6%	20.8%
13	9/14/2004	5	672	8823	1449	1236.50	80.33	1720	231168	6182.5	53,980.0	359.4%	23.4%
14	9/23/2004	9	681	8814	588	1018.50	92.73	3096	234264	9166.5	63,146.5	296.1%	27.0%
15	9/27/2004	4	685	8810	9557	5072.50	121.81	1376	235640	20290.0	83,436.5	1474.6%	35.4%
16	10/19/2004	22	707	8788	559	5058.00	275.41	7568	243208	111276.0	194,712.5	1470.3%	80.1%
17	11/5/2004	17	724	8771	578	568.50	282.29	5848	249056	9664.5	204,377.0	165.3%	82.1%
18	12/3/2004	28	752	8743	30	304.00	283.10	9632	258688	8512.0	212,889.0	88.4%	82.3%
19	2/28/2005	87	839	8656	32	31.00	256.96	29928	288616	2697.0	215,586.0	9.0%	74.7%
20	5/31/2005	92	931	8564	76	54.00	236.90	31648	320264	4968.0	220,554.0	15.7%	68.9%
21	8/10/2005	71	1002	8493	130	103.00	227.41	24424	344688	7313.0	227,867.0	29.9%	66.1%
22	8/11/2005	1	1003	8492	216	173.00	227.36	344	345032	173.0	228,040.0	50.3%	66.1%
23	9/15/2005	35	1038	8457	1490	853.00	248.45	12040	357072	29855.0	257,895.0	248.0%	72.2%
24	9/23/2005	8	1046	8449	178	834.00	252.93	2752	359824	6672.0	264,567.0	242.4%	73.5%
25	9/29/2005	6	1052	8443	383	280.50	253.09	2064	361888	1683.0	266,250.0	81.5%	73.6%
26	10/6/2005	7	1059	8436	1822	1102.50	258.70	2408	364296	7717.5	273,967.5	320.5%	75.2%
27	10/28/2005	22	1081	8414	15.4	918.70	272.14	7568	371864	20211.4	294,178.9	267.1%	79.1%
28	11/18/2005	21	1102	8393	15.9	15.65	267.25	7224	379088	328.7	294,507.6	4.5%	77.7%
29	12/29/2005	41	1143	8352	83.2	49.55	259.44	14104	393192	2031.6	296,539.1	14.4%	75.4%
30	2/28/2006	61	1204	8291	32	57.60	249.21	20984	414176	3513.6	300,052.7	16.7%	72.4%
31	5/31/2006	92	1296	8199	76	54.00	235.36	31648	445824	4968.0	305,020.7	15.7%	68.4%
32	8/16/2006	77	1373	8122	1629	852.50	269.97	26488	472312	65642.5	370,663.2	247.8%	78.5%
33	8/31/2006	15	1388	8107	1629	1629.00	284.65	5160	477472	24435.0	395,098.2	473.5%	82.7%
34	10/5/2006	35	1423	8072	2357	1993.00	326.67	12040	489512	69755.0	464,853.2	579.4%	95.0%
35	10/19/2006	14	1437	8058	41.1	1199.05	335.17	4816	494328	16786.7	481,639.9	348.6%	97.4%
36	11/19/2006	31	1468	8027	41.1	41.10	328.96	10664	504992	1274.1	482,914.0	11.9%	95.6%
37	11/30/2006	11	1479	8016	67	54.05	326.92	3784	508776	594.6	483,508.6	15.7%	95.0%

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day (nanograms per cubic meter per day)

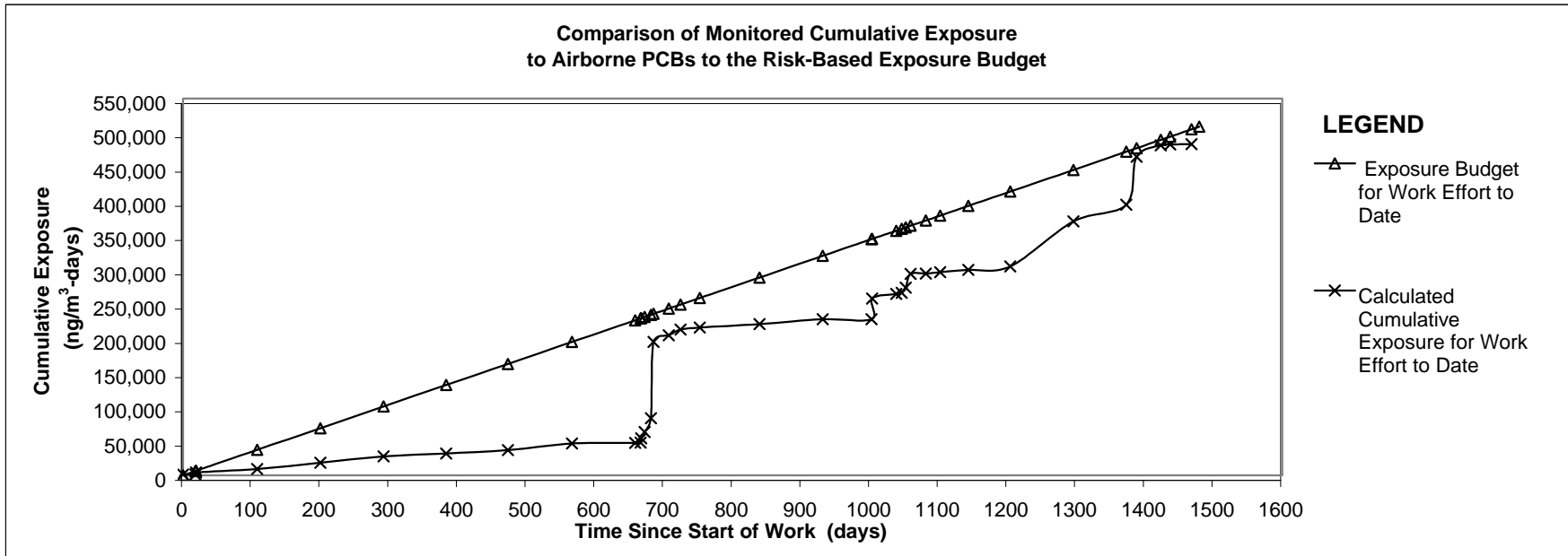
NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station : 24 Aerovox
Collection Date: 11/30/2006
Measured PCB Concentration (ng/m³): 67
Exposure Budget Expended During This Period: 15.7%
Cumulative Exposure Budget Expended to Date: 95.0%
Response Level: LOW
Response: Evaluate the Cause and Significance of the Triggering Conditions

Triggers:



Notes:

- a) 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).
- b) 2005 dredge season, including pre- and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).
- c) 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 25 Cliftex
Exposure Budget Slope (EBS) = 202 nanograms per cubic meter per day (ng/m³-day)

Collection Date: 11/30/2006

Construction Activity: The 2006 dredging activities were initiated on August 16, 2006 and demobilization activities were completed on November 1, 2006.

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Vol sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the Development of PCB Air Action Levels for the Protection of the Public, New Bedford Superfund Site, August 2001. Cumulative data for this reporting period are included on pages 3 and 4.

Summary of This Sampling Period:

The results from the Baseline Ambient Air Sampling program were used to assign background concentrations for each air sampling location. For Station 25 Cliftex, the quarterly average ambient air PCB concentrations were used as a background concentration, which represent the quarterly baseline averages for the period of June 1999 through May 2000. These background concentrations were used for the inactive field times from 11/12/02 through 9/8/04, for the period from 12/4/04 through 8/10/05, and from 12/28/05 through 8/15/06 to close the recent inactive field season. In addition, to better simulate the 2006 dredging season, the ambient air concentrations from the August 31, 2006 sampling event were used to project concentrations detected at Station 25 Cliftex on August 16, 2006 (the start of dredging activities). This better simulates the ambient air PCB concentrations at Station 25 Cliftex during the active dredging season. For the first month of the 2004 and 2005 seasons, the sampling was conducted on a weekly basis.

However, since monthly sampling was conducted in 2006, and the first 2006 sampling event was conducted two weeks after the start of dredging, this new variation of the PETs curve was used. Also, the background concentrations were projected to be at background levels at Station 25 Cliftex on October 19, 2006, which is the day after the 2006 dredging activities were completed. These changes in the background concentrations and associated active dredging concentrations better match the actual 2006 dredging activities. No triggers were identified, therefore, no action is required.

Home Sheet

Monitoring Station		25 Cliftex
Exposure Budget Slope	[ng/m ³ -day]	202
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date (Per EPA)	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m ³]	500,000
TEL for Worker in Public	[ng/m ³]	50,000
NTEL for Worker in Public	[ng/m ³]	1,789
Minimum of TEL/NTEL	[ng/m ³]	1,789
Baseline Average Concentration	[ng/m ³]	23
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limit		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

Sample Results, Calculated Budget and Exposure Values 25 Cliftex Location

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Runnig Sum of Column (C) to Date [days]	[days]	[ng/m ³]	[ng/m ³]	Column (L)/Column (D) [ng/m ³]	EBS ¹ * Column (C) [ng/m ³ -days]	Sum of Column (I) [ng/m ³ -days]	Column (G)* Column (C) [ng/m ³ -days]	Sum of Column (K) [ng/m ³ -days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	22	22.00	22.00	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	22	22.00	22.00	3636	3636	396.0	396.0	10.9%	10.9%
3	12/1/2002	1	19	9476	3.2	12.60	21.51	202	3838	12.6	408.6	6.2%	10.6%
4	2/28/2003	89	108	9387	3.2	3.20	6.42	17978	21816	284.8	693.4	1.6%	3.2%
5	5/31/2003	92	200	9295	35	19.10	12.25	18584	40400	1757.2	2,450.6	9.5%	6.1%
6	8/31/2003	92	292	9203	46	40.50	21.15	18584	58984	3726.0	6,176.6	20.0%	10.5%
7	11/30/2003	91	383	9112	22	34.00	24.21	18382	77366	3094.0	9,270.6	16.8%	12.0%
8	2/28/2004	90	473	9022	3.2	12.60	22.00	18180	95546	1134.0	10,404.6	6.2%	10.9%
9	5/31/2004	93	566	8929	35	19.10	21.52	18786	114332	1776.3	12,180.9	9.5%	10.7%
10	8/31/2004	92	658	8837	46	40.50	24.17	18584	132916	3726.0	15,906.9	20.0%	12.0%
11	9/8/2004	8	666	8829	22	34.00	24.29	1616	134532	272.0	16,178.9	16.8%	12.0%
12	9/9/2004	1	667	8828	167	94.50	24.40	202	134734	94.5	16,273.4	46.8%	12.1%
13	9/14/2004	5	672	8823	229	198.00	25.69	1010	135744	990.0	17,263.4	98.0%	12.7%
14	9/23/2004	9	681	8814	97	163.00	27.50	1818	137562	1467.0	18,730.4	80.7%	13.6%
15	9/28/2004	5	686	8809	423	260.00	29.20	1010	138572	1300.0	20,030.4	128.7%	14.5%
16	10/19/2004	21	707	8788	259	341.00	38.46	4242	142814	7161.0	27,191.4	168.8%	19.0%
17	11/15/2004	27	734	8761	61	160.00	42.93	5454	148268	4320.0	31,511.4	79.2%	21.3%
18	12/3/2004	18	752	8743	27	44.00	42.96	3636	151904	792.0	32,303.4	21.8%	21.3%
19	2/28/2005	87	839	8656	3.2	15.10	40.07	17574	169478	1313.7	33,617.1	7.5%	19.8%
20	5/31/2005	92	931	8564	35	19.10	38.00	18584	188062	1757.2	35,374.3	9.5%	18.8%
21	8/10/2005	71	1002	8493	46	40.50	38.17	14342	202404	2875.5	38,249.8	20.0%	18.9%
22	8/11/2005	1	1003	8492	103	74.50	38.21	202	202606	74.5	38,324.3	36.9%	18.9%
23	9/15/2005	35	1038	8457	58.2	80.60	39.64	7070	209676	2821.0	41,145.3	39.9%	19.6%
24	9/23/2005	8	1046	8449	35.2	46.70	39.69	1616	211292	373.6	41,518.9	23.1%	19.7%
25	9/29/2005	6	1052	8443	104	69.60	39.86	1212	212504	417.6	41,936.5	34.5%	19.7%
26	10/6/2005	7	1059	8436	251	177.50	40.77	1414	213918	1242.5	43,179.0	87.9%	20.2%
27	11/18/2005	43	1102	8393	0.12	125.56	44.08	8686	222604	5399.1	48,578.1	62.2%	21.8%
28	12/29/2005	41	1143	8352	10.9	5.51	42.70	8282	230886	225.9	48,804.0	2.7%	21.1%
29	2/28/2006	61	1204	8291	3.2	7.05	40.89	12322	243208	430.1	49,234.0	3.5%	20.2%
30	5/31/2006	92	1296	8199	35	19.10	39.35	18584	261792	1757.2	50,991.2	9.5%	19.5%
31	8/16/2006	77	1373	8122	176	105.50	43.06	15554	277346	8123.5	59,114.7	52.2%	21.3%
32	8/31/2006	15	1388	8107	176	176.00	44.49	3030	280376	2640.0	61,754.7	87.1%	22.0%
33	10/5/2006	35	1423	8072	451	313.50	51.11	7070	287446	10972.5	72,727.2	155.2%	25.3%
34	10/19/2006	14	1437	8058	0.14	225.57	52.81	2828	290274	3158.0	75,885.2	111.7%	26.1%
35	11/19/2006	31	1468	8027	0.14	0.14	51.70	6262	296536	4.3	75,889.6	0.1%	25.6%
36	11/30/2006	11	1479	8016	22	11.07	51.39	2222	298758	121.8	76,011.3	5.5%	25.4%

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day (nanograms per cubic meter per day)

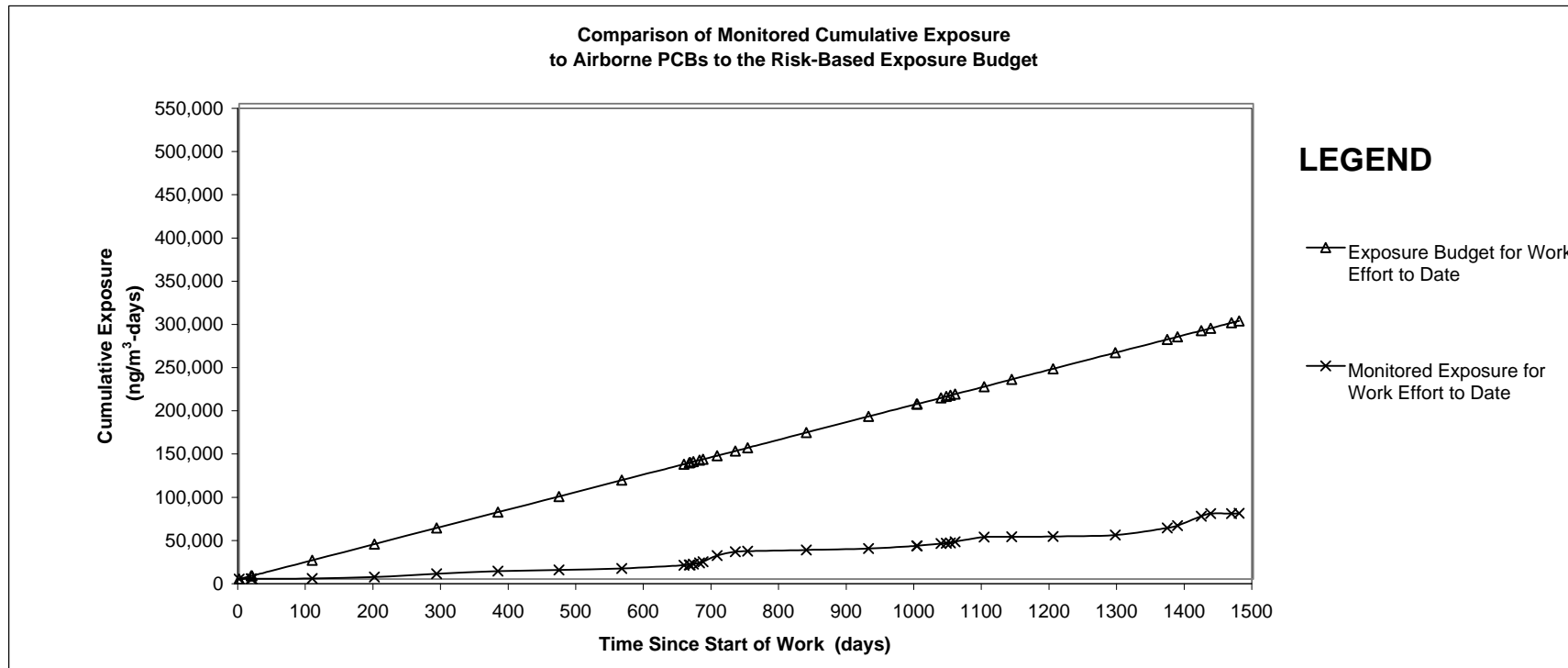
NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station :	25 Cliftex
Collection Date:	11/30/2006
Measured PCB Concentration (ng/m³):	22
Exposure Budget Expended During This Period:	5.5%
Cumulative Exposure Budget Expended to Date:	25.4%
Response Level:	No Triggers Identified
Response:	No Response Necessary

Triggers:



Notes:

- a) 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).
- b) 2005 dredge season, including pre- and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).
- c) 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 46 Coffin Ave
Exposure Budget Slope (EBS) = 202 nanograms per cubic meter per day (ng/m³-day)

Collection Date: 11/30/2006

Construction Activity: The 2006 dredging activities were initiated on August 16, 2005 and demobilization activities were completed on November 1, 2006.

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Vol sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the Development of PCB Air Action Levels for the Protection of the Public, New Bedford Superfund Site, August 2001. Cumulative data for this reporting period are included on pages 3 and 4.

Summary of This Sampling Period:

The results from the Baseline Ambient Air Sampling program were used to assign background concentrations for each air sampling location. For Station 46 Coffin Ave., the quarterly ambient air PCB concentrations were used for background concentrations. These values represent the quarterly baseline averages from Stations 21 and 25 - Cliftex, for the period of June 1999 through May 2000. These background concentrations were used for the inactive field times from 11/12/02 through 9/8/04, for the period from 12/4/04 through 8/10/05, and from 12/28/05 through 8/15/06 to close the inactive field season. In addition, to better simulate the 2006 dredging season, the ambient air concentrations from the August 31, 2006 sampling event were used to project concentrations detected at Station 46 Coffin Ave on August 16, 2006 (the start of dredging activities). This better simulates the ambient air PCB concentrations at Station 46 Coffin Ave during the active dredging season. For the first month of the 2004 and 2005 seasons, the sampling was conducted on a weekly basis.

However, since monthly sampling was conducted in 2006, and the first 2006 sampling event was conducted two weeks after the start of dredging, this new variation of the PETs curve was used. Also, the background concentrations were projected to be at background levels at Station 46 Coffin Ave on October 19, 2006, which is the day after the 2006 dredging activities were completed. These changes in the background concentrations and associated active dredging concentrations better match the actual 2006 dredging activities. No triggers were identified, therefore, no action is required.

Home Sheet

Monitoring Station		46 Coffin Ave
Exposure Budget Slope	[ng/m ³ -day]	202
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date (Per EPA)	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m ³]	500,000
TEL for Worker in Public	[ng/m ³]	50,000
NTEL for Worker in Public	[ng/m ³]	1,789
Minimum of TEL/NTEL	[ng/m ³]	1,789
Baseline Average Concentration	[ng/m ³]	26.1
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limit		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

**Sample Results, Calculated Budget and Exposure Values
46 Coffin Avenue**

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaining	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Runnig Sum of Column (C) to Date [days]	[days]	[ng/m ³]	[ng/m ³]	Column (L)/Column (D) [ng/m ³]	EBS ¹ * Column (C) [ng/m ³ -days]	Sum of Column (I) [ng/m ³ -days]	Column (G)* Column (C) [ng/m ³ -days]	Sum of Column (K) [ng/m ³ -days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	22	22.00	22.00	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	22	22.00	22.00	3636	3636	396.0	396.0	10.9%	10.9%
3	12/1/2002	1	19	9476	3.2	12.60	21.51	202	3838	12.6	408.6	6.2%	10.6%
4	2/28/2003	89	108	9387	3.2	3.20	6.42	17978	21816	284.8	693.4	1.6%	3.2%
5	5/31/2003	92	200	9295	35	19.10	12.25	18584	40400	1757.2	2,450.6	9.5%	6.1%
6	8/31/2003	92	292	9203	46	40.50	21.15	18584	58984	3726.0	6,176.6	20.0%	10.5%
7	11/30/2003	91	383	9112	22	34.00	24.21	18382	77366	3094.0	9,270.6	16.8%	12.0%
8	2/28/2004	90	473	9022	3.2	12.60	22.00	18180	95546	1134.0	10,404.6	6.2%	10.9%
9	5/31/2004	93	566	8929	35	19.10	21.52	18786	114332	1776.3	12,180.9	9.5%	10.7%
10	8/31/2004	92	658	8837	46	40.50	24.17	18584	132916	3726.0	15,906.9	20.0%	12.0%
11	9/8/2004	8	666	8829	22	34.00	24.29	1616	134532	272.0	16,178.9	16.8%	12.0%
12	9/9/2004	1	667	8828	145	83.50	24.38	202	134734	83.5	16,262.4	41.3%	12.1%
13	9/14/2004	5	672	8823	48	96.50	24.92	1010	135744	482.5	16,744.9	47.8%	12.3%
14	9/23/2004	9	681	8814	5	26.50	24.94	1818	137562	238.5	16,983.4	13.1%	12.3%
15	9/28/2004	5	686	8809	342	173.50	26.02	1010	138572	867.5	17,850.9	85.9%	12.9%
16	10/19/2004	21	707	8788	36	189.00	30.86	4242	142814	3969.0	21,819.9	93.6%	15.3%
17	11/5/2004	17	724	8771	80	58.00	31.50	3434	146248	986.0	22,805.9	28.7%	15.6%
18	12/3/2004	28	752	8743	15	47.50	32.10	5656	151904	1330.0	24,135.9	23.5%	15.9%
19	2/28/2005	87	839	8656	3.2	9.10	29.71	17574	169478	791.7	24,927.6	4.5%	14.7%
20	5/31/2005	92	931	8564	35	19.10	28.66	18584	188062	1757.2	26,684.8	9.5%	14.2%
21	8/10/2005	71	1002	8493	46	40.50	29.50	14342	202404	2875.5	29,560.3	20.0%	14.6%
22	8/11/2005	1	1003	8492	37.2	41.60	29.51	202	202606	41.6	29,601.9	20.6%	14.6%
23	9/15/2005	35	1038	8457	99.8	68.50	30.83	7070	209676	2397.5	31,999.4	33.9%	15.3%
24	9/23/2005	8	1046	8449	115	107.40	31.41	1616	211292	859.2	32,858.6	53.2%	15.6%
25	9/29/2005	6	1052	8443	124	119.50	31.92	1212	212504	717.0	33,575.6	59.2%	15.8%
26	10/6/2005	7	1059	8436	130	127.00	32.54	1414	213918	889.0	34,464.6	62.9%	16.1%
27	10/28/2005	22	1081	8414	2.06	66.03	33.23	4444	218362	1452.7	35,917.3	32.7%	16.4%
28	11/18/2005	21	1102	8393	0.14	1.10	32.61	4242	222604	23.1	35,940.4	0.5%	16.1%
29	12/29/2005	41	1143	8352	65.1	32.62	32.61	8282	230886	1337.4	37,277.8	16.1%	16.1%
30	2/28/2006	61	1204	8291	3.2	34.15	32.69	12322	243208	2083.2	39,360.9	16.9%	16.2%
31	5/31/2006	92	1296	8199	35	19.10	31.73	18584	261792	1757.2	41,118.1	9.5%	15.7%
32	8/16/2006	77	1373	8122	70.4	52.70	32.90	15554	277346	4057.9	45,176.0	26.1%	16.3%
33	8/31/2006	15	1388	8107	70.4	70.40	33.31	3030	280376	1056.0	46,232.0	34.9%	16.5%
34	10/5/2006	35	1423	8072	106	88.20	34.66	7070	287446	3087.0	49,319.0	43.7%	17.2%
35	10/19/2006	14	1437	8058	4.05	55.03	34.86	2828	290274	770.4	50,089.4	27.2%	17.3%
36	11/19/2006	31	1468	8027	4.05	4.05	34.21	6262	296536	125.6	50,214.9	2.0%	16.9%
37	11/30/2006	11	1479	8016	22	13.03	34.05	2222	298758	143.3	50,358.2	6.4%	16.9%

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day (nanograms per cubic meter per day)

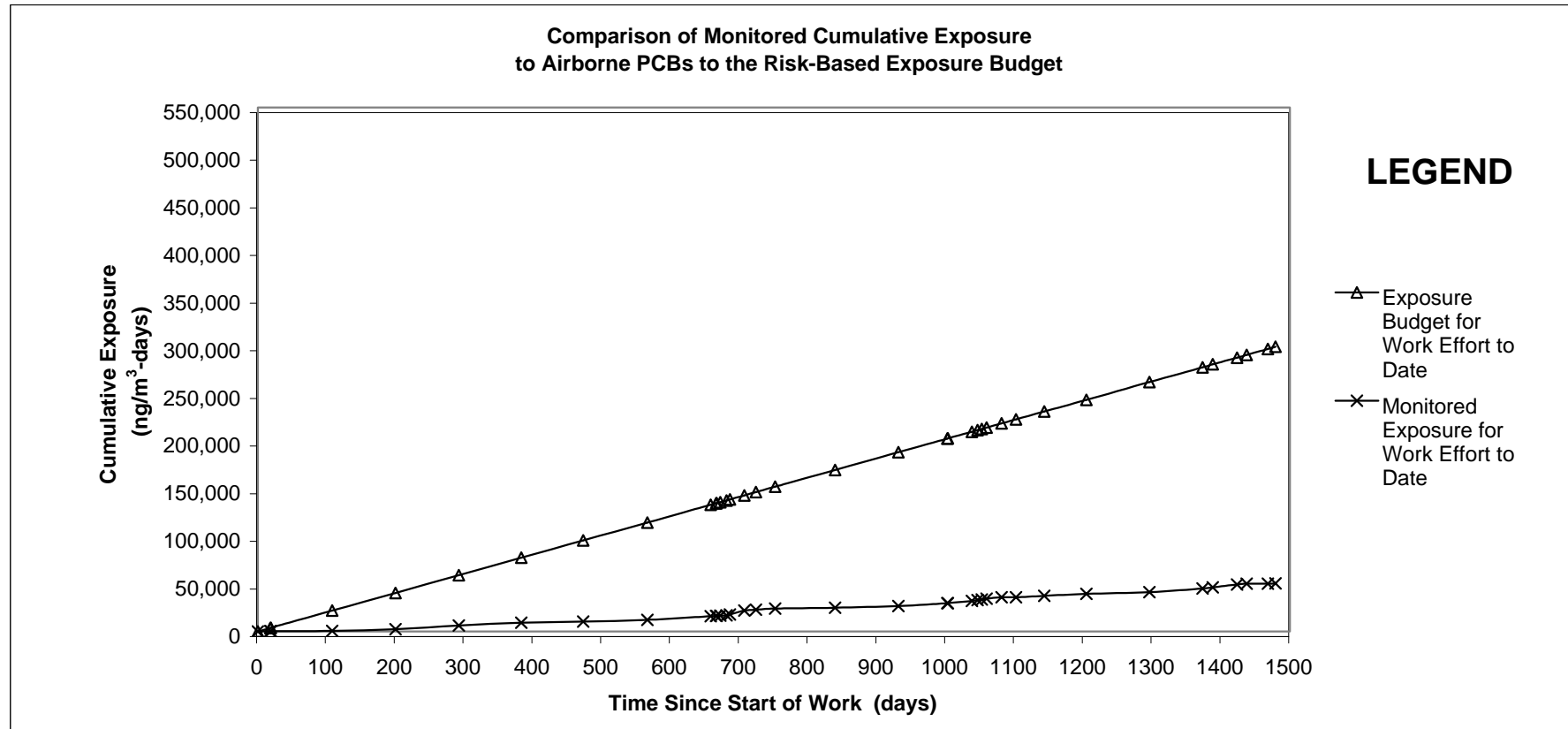
NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station : 46 Coffin Ave
Collection Date: 11/30/2006
Measured PCB Concentration (ng/m³): 22
Exposure Budget Expended During This Period: 6.4%
Cumulative Exposure Budget Expended to Date: 16.9%
Response Level: No Triggers Identified
Response: No Response Necessary

Triggers:



Notes:

- a) 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).
- b) 2005 dredge season, including pre- and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).
- c) 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 49 Area C Downwind
Exposure Budget Slope (EBS) = 202 nanograms per cubic meter per day (ng/m³-day)

Collection Date: 11/30/2006

Construction Activity: The 2006 dredging activities were initiated on August 16, 2006 and demobilization activities were completed on November 1, 2006.

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Vol sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the Development of PCB Air Action Levels for the Protection of the Public, New Bedford Superfund Site, August 2001. Cumulative data for this reporting period are included on pages 3 and 4.

The results from the Baseline Ambient Air Sampling program were used to assign background concentrations for each air sampling location. For Station 49 Area C Downwind, the quarterly average ambient air PCB concentrations were used for background. These represent the average quarterly baseline averages from Station 26 - Sawyer Street, for the period of June 1999 through May 2000. These background concentrations were used for the inactive field times from 11/12/02 through 9/8/04, for the period from 12/4/04 through 8/10/05, and from 12/28/05 through 8/15/06 to close the recent inactive field season. For the December 2005 sampling event, based on wind direction for that day, the results from Station 47 were used to represent Area C downgradient air PCB concentrations. For the August 2006 sampling event, based on wind direction for that day, Station 47 sampling results were used to represent Area C downgradient PCB concentrations. In addition, to better simulate the 2006 dredging season, the ambient air concentrations from the August 31, 2006 sampling event were used to project concentrations detected at Station 49 on August 16, 2006 (the start of dredging activities).

For the first month of the 2004 and 2005 seasons, the sampling was conducted on a weekly basis. This better simulates the ambient air PCB concentrations at Station 49 during the active dredging season. For the first month of the 2004 and 2005 seasons, the sampling was conducted on a weekly basis. However, since monthly sampling was conducted in 2006, and the first 2006 sampling event was conducted two weeks after the start of dredging, this new variation of the PETs curve was used. Also, the background concentrations were projected to be at background levels at Station 49 Area C on October 19, 2006, which is the day after the 2006 dredging activities were completed. These changes in the background concentrations and associated active dredging concentrations better match the actual 2006 dredging activities. No triggers were identified, therefore, no action is required.

Home Sheet

Monitoring Station		49 Area C Downwind
Exposure Budget Slope	[ng/m ³ -day]	202
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date (Per EPA)	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m ³]	500,000
TEL for Worker in Public	[ng/m ³]	50,000
NTEL for Worker in Public	[ng/m ³]	1,789
Minimum of TEL/NTEL	[ng/m ³]	1,789
Baseline Average Concentration	[ng/m ³]	56
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limit		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

**Sample Results, Calculated Budget and Exposure Values
49 Area C Downwind**

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaining	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Runnig Sum of Column (C) to Date [days]	[days]	[ng/m ³]	[ng/m ³]	Column (L)/Column (D) [ng/m ³]	EBS ¹ * Column (C) [ng/m ³ -days]	Sum of Column (I) [ng/m ³ -days]	Column (G)* Column (C) [ng/m ³ -days]	Sum of Column (K) [ng/m ³ -days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	43	43.00	43.00	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	43	43.00	43.00	3636	3636	774.0	774.0	21.3%	21.3%
3	12/1/2002	1	19	9476	89	66.00	44.21	202	3838	66.0	840.0	32.7%	21.9%
4	2/28/2003	89	108	9387	89	89.00	81.12	17978	21816	7921.0	8,761.0	44.1%	40.2%
5	5/31/2003	92	200	9295	61	75.00	78.31	18584	40400	6900.0	15,661.0	37.1%	38.8%
6	8/31/2003	92	292	9203	33	47.00	68.44	18584	58984	4324.0	19,985.0	23.3%	33.9%
7	11/30/2003	91	383	9112	43	38.00	61.21	18382	77366	3458.0	23,443.0	18.8%	30.3%
8	2/28/2004	90	473	9022	89	66.00	62.12	18180	95546	5940.0	29,383.0	32.7%	30.8%
9	5/31/2004	93	566	8929	61	75.00	64.24	18786	114332	6975.0	36,358.0	37.1%	31.8%
10	8/31/2004	92	658	8837	33	47.00	61.83	18584	132916	4324.0	40,682.0	23.3%	30.6%
11	9/8/2004	8	666	8829	43	38.00	61.54	1616	134532	304.0	40,986.0	18.8%	30.5%
12	9/9/2004	1	667	8828	56	49.50	61.52	202	134734	49.5	41,035.5	24.5%	30.5%
13	9/14/2004	5	672	8823	86	71.00	61.59	1010	135744	355.0	41,390.5	35.1%	30.5%
14	9/23/2004	9	681	8814	17	51.50	61.46	1818	137562	463.5	41,854.0	25.5%	30.4%
15	9/28/2004	5	686	8809	207	112.00	61.83	1010	138572	560.0	42,414.0	55.4%	30.6%
16	10/19/2004	21	707	8788	66	136.50	64.05	4242	142814	2866.5	45,280.5	67.6%	31.7%
17	11/5/2004	17	724	8771	28	47.00	63.65	3434	146248	799.0	46,079.5	23.3%	31.5%
18	12/3/2004	28	752	8743	26	27.00	62.28	5656	151904	756.0	46,835.5	13.4%	30.8%
19	2/28/2005	87	839	8656	89	57.50	61.79	17574	169478	5002.5	51,838.0	28.5%	30.6%
20	5/31/2005	92	931	8564	61	75.00	63.09	18584	188062	6900.0	58,738.0	37.1%	31.2%
21	8/10/2005	71	1002	8493	33	47.00	61.95	14342	202404	3337.0	62,075.0	23.3%	30.7%
22	8/11/2005	1	1003	8492	29.3	31.15	61.92	202	202606	31.2	62,106.2	15.4%	30.7%
23	9/15/2005	35	1038	8457	83.6	56.45	61.74	7070	209676	1975.8	64,081.9	27.9%	30.6%
24	9/23/2005	8	1046	8449	97	90.30	61.95	1616	211292	722.4	64,804.3	44.7%	30.7%
25	9/29/2005	6	1052	8443	44.2	70.60	62.00	1212	212504	423.6	65,227.9	35.0%	30.7%
26	10/6/2005	7	1059	8436	114	79.10	62.12	1414	213918	553.7	65,781.6	39.2%	30.8%
27	10/28/2005	22	1081	8414	12.3	63.15	62.14	4444	218362	1389.3	67,170.9	31.3%	30.8%
28	11/18/2005	21	1102	8393	3.71	8.01	61.11	4242	222604	168.1	67,339.0	4.0%	30.3%
29	12/29/2005	41	1143	8352	7.42	5.57	59.11	8282	230886	228.2	67,567.2	2.8%	29.3%
30	2/28/2006	61	1204	8291	89	48.21	58.56	12322	243208	2940.8	70,508.0	23.9%	29.0%
31	5/31/2006	92	1296	8199	61	75.00	59.73	18584	261792	6900.0	77,408.0	37.1%	29.6%
32	8/16/2006	77	1373	8122	39.2	50.10	59.19	15554	277346	3857.7	81,265.7	24.8%	29.3%
33	8/31/2006	15	1388	8107	39.2	39.20	58.97	3030	280376	588.0	81,853.7	19.4%	29.2%
34	10/5/2006	35	1423	8072	157	98.10	59.93	7070	287446	3433.5	85,287.2	48.6%	29.7%
35	10/19/2006	14	1437	8058	81.4	119.20	60.51	2828	290274	1668.8	86,956.0	59.0%	30.0%
36	11/19/2006	31	1468	8027	81.4	81.40	60.95	6262	296536	2523.4	89,479.4	40.3%	30.2%
37	11/30/2006	11	1479	8016	43	62.20	60.96	2222	298758	684.2	90,163.6	30.8%	30.2%

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day (nanograms per cubic meter per day)

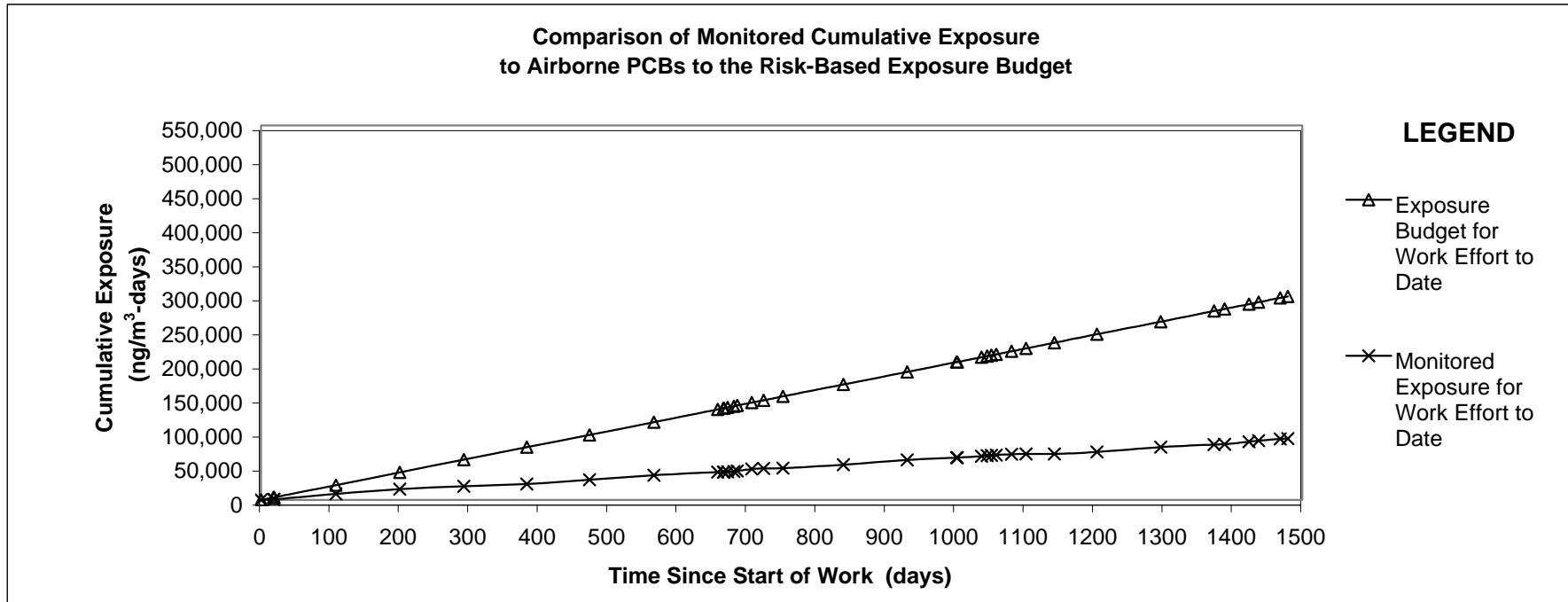
NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station : 49 Area C Downwind
Collection Date: 11/30/2006
Measured PCB Concentration (ng/m³): 43
Exposure Budget Expended During This Period: 30.8%
Cumulative Exposure Budget Expended to Date: 30.2%
Response Level: No Triggers Identified
Response: No Response Necessary

Triggers:



Notes:

- 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).
- 2005 dredge season, including pre- and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).
- 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 50 Area D Downwind
Exposure Budget Slope (EBS) = 344 nanograms per cubic meter per day (ng/m³-day)

Collection Date: 11/30/2006

Construction Activity: The October 28, 2005 sample was broken during analysis. The 2006 dredging activities were initiated on August 16, 2006 and the demobilization activities were completed on November 1, 2006.

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Vol sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the Development of PCB Air Action Levels for the Protection of the Public, New Bedford Superfund Site, August 2001. Cumulative data for this reporting period are included on pages 3 and 4.

Summary of This Sampling Period:

The results from the Baseline Ambient Air Sampling program were used to assign background concentrations for each air sampling location. However, for the August 2005 background sampling event, based on wind direction for that day, the results from Station 52 were used to represent Area D downgradient air PCB concentrations. For Station 50 Area D, the average quarterly air PCB concentrations were used as background concentrations, which represent the average quarterly from Station 21 - New Bedford Welding, for the period of June 1999 through May 2000. These background concentrations were used for the inactive field times from 11/12/02 through 9/8/04, for the period from 12/4/04 through 8/10/05, and from 12/28/05 through 8/15/06 to close the recent inactive field season. For the December 2005 post-dredging sampling event, based on wind direction for the day, the results from Station 51 were used to represent Area D downgradient air PCB concentrations. For the August 2006, and October 2006 sampling events, based on the wind direction for those days, Station 51 and Station 52 sampling events were used to represent Area D downgradient air PCB concentrations, respectively for those days.

In addition, to better simulate the 2006 dredging season, the ambient air concentrations from the August 31, 2006 sampling event were used to project concentrations detected at Station 50 on August 16, 2006 (the start of dredging activities). For the first month of the 2004 and 2005 seasons, the sampling was conducted on a weekly basis. This better simulates the ambient air PCB concentrations at Station 50 during the active dredging season. For the first month of the 2004 and 2005 seasons, the sampling was conducted on a weekly basis. However, since monthly sampling was conducted in 2006, and the first 2006 sampling event was conducted two weeks after the start of dredging, this new variation of the PETs curve was used. Also, the background concentrations were projected to be at background levels at Station 50 Area D on October 19, 2006, which is the day after the 2006 dredging activities were completed. These changes in the background concentrations and associated active dredging concentrations better match the actual 2006 dredging activities. No triggers were identified, therefore, no action is necessary.

Home Sheet

Monitoring Station		50 Area D Downwind
Exposure Budget Slope	[ng/m ³ -day]	344
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date (Per EPA)	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m ³]	500,000
TEL for Worker in Public	[ng/m ³]	50,000
NTEL for Worker in Public	[ng/m ³]	1,789
Minimum of TEL/NTEL	[ng/m ³]	1,789
Baseline Average Concentration	[ng/m ³]	16.7
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limit		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

Sample Results, Calculated Budget and Exposure Values 50 Area D Downwind

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	<u>Running Sum of Column (C) to Date</u> [days]	[days]	[ng/m ³]	[ng/m ³]	<u>Column (L)/Column (D)</u> [ng/m ³]	<u>EBS¹ * Column (C)</u> [ng/m ³ -days]	<u>Sum of Column (I)</u> [ng/m ³ -days]	<u>Column (G) * Column (C)</u> [ng/m ³ -days]	<u>Sum of Column (K)</u> [ng/m ³ -days]	<u>Column (K) /Column (I)</u> [%]	<u>Column (L) /Column (J)</u> [%]
1	11/12/2002	0	0	9495	5.9	5.90	5.90	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	5.9	5.90	5.90	6192	6192	106.2	106.2	1.7%	1.7%
3	12/1/2002	1	19	9476	3.4	4.65	5.83	344	6536	4.7	110.9	1.4%	1.7%
4	2/28/2003	89	108	9387	3.4	3.40	3.83	30616	37152	302.6	413.5	1.0%	1.1%
5	5/31/2003	92	200	9295	6.8	5.10	4.41	31648	68800	469.2	882.7	1.5%	1.3%
6	8/31/2003	92	292	9203	12	9.40	5.98	31648	100448	864.8	1,747.5	2.7%	1.7%
7	11/30/2003	91	383	9112	5.9	8.95	6.69	31304	131752	814.5	2,561.9	2.6%	1.9%
8	2/28/2004	90	473	9022	3.4	4.65	6.30	30960	162712	418.5	2,980.4	1.4%	1.8%
9	5/31/2004	93	566	8929	6.8	5.10	6.10	31992	194704	474.3	3,454.7	1.5%	1.8%
10	8/31/2004	92	658	8837	12	9.40	6.56	31648	226352	864.8	4,319.5	2.7%	1.9%
11	9/8/2004	8	666	8829	5.9	8.95	6.59	2752	229104	71.6	4,391.1	2.6%	1.9%
12	9/9/2004	1	667	8828	20	12.95	6.60	344	229448	13.0	4,404.1	3.8%	1.9%
13	9/14/2004	5	672	8823	38	29.00	6.77	1720	231168	145.0	4,549.1	8.4%	2.0%
14	9/23/2004	9	681	8814	6	22.00	6.97	3096	234264	198.0	4,747.1	6.4%	2.0%
15	9/28/2004	5	686	8809	80	43.00	7.23	1720	235984	215.0	4,962.1	12.5%	2.1%
16	10/19/2004	21	707	8788	17	48.50	8.46	7224	243208	1018.5	5,980.6	14.1%	2.5%
17	12/3/2004	45	752	8743	22	19.50	9.12	15480	258688	877.5	6,858.1	5.7%	2.7%
18	2/28/2005	87	839	8656	3.4	12.70	9.49	29928	288616	1104.9	7,963.0	3.7%	2.8%
19	5/31/2005	92	931	8564	6.8	5.10	9.06	31648	320264	469.2	8,432.2	1.5%	2.6%
20	8/10/2005	71	1002	8493	12	9.40	9.08	24424	344688	667.4	9,099.6	2.7%	2.6%
21	8/11/2005	1	1003	8492	21.3	16.65	9.09	344	345032	16.7	9,116.2	4.8%	2.6%
22	9/15/2005	35	1038	8457	0.52	10.91	9.15	12040	357072	381.9	9,498.1	3.2%	2.7%
23	9/23/2005	8	1046	8449	0.26	0.39	9.08	2752	359824	3.1	9,501.2	0.1%	2.6%
24	9/29/2005	6	1052	8443	24.2	12.23	9.10	2064	361888	73.4	9,574.6	3.6%	2.6%
25	10/6/2005	7	1059	8436	81.7	52.95	9.39	2408	364296	370.7	9,945.2	15.4%	2.7%
26	10/28/2005	22	1081	8414	0.01	40.86	10.03	7568	371864	898.8	10,844.0	11.9%	2.9%
27	12/29/2005	62	1143	8352	2.18	1.10	9.55	21328	393192	67.9	10,911.9	0.3%	2.8%
28	2/28/2006	61	1204	8291	3.4	2.79	9.20	20984	414176	170.2	11,082.1	0.8%	2.7%
29	5/31/2006	92	1296	8199	6.8	5.10	8.91	31648	445824	469.2	11,551.3	1.5%	2.6%
30	8/16/2006	77	1373	8122	12	9.40	8.94	26488	472312	723.8	12,275.1	2.7%	2.6%
31	8/31/2006	15	1388	8107	67.3	39.65	9.27	5160	477472	594.8	12,869.8	11.5%	2.7%
32	10/5/2006	35	1423	8072	197	132.15	12.29	12040	489512	4625.3	17,495.1	38.4%	3.6%
33	10/19/2006	14	1437	8058	2.6	99.80	13.15	4816	494328	1397.2	18,892.3	29.0%	3.8%
34	11/19/2006	31	1468	8027	2.6	2.60	12.92	10664	504992	80.6	18,972.9	0.8%	3.8%
35	11/30/2006	11	1479	8016	5.9	4.25	12.86	3784	508776	46.8	19,019.6	1.2%	3.7%

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day (nanograms per cubic meter per day)

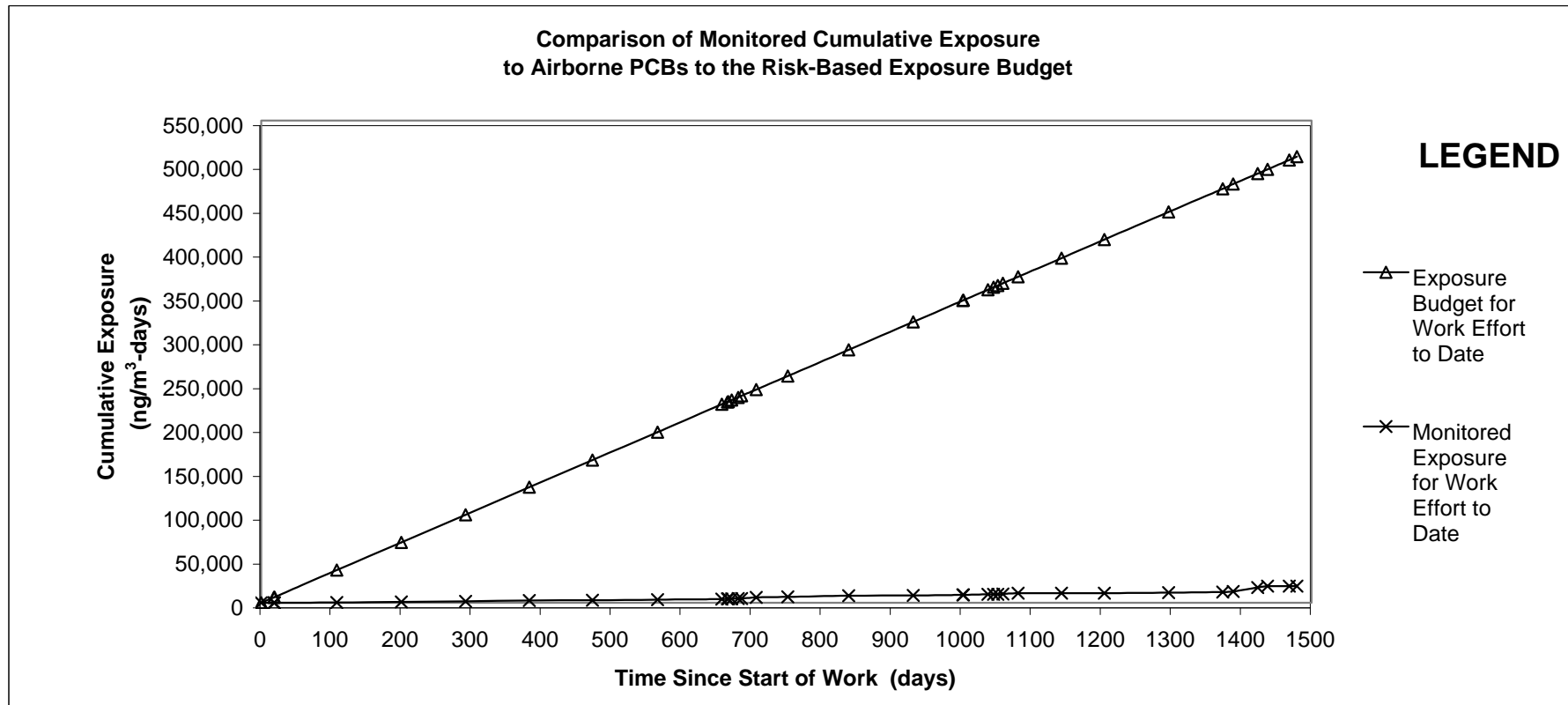
NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station : 50 Area D Downwind
Collection Date: 11/30/2006
Measured PCB Concentration (ng/m³): 5.9
Exposure Budget Expended During This Period: 1.2%
Cumulative Exposure Budget Expended to Date: 3.7%
Response Level: No Triggers Identified
Response: No Response Necessary

Triggers:



Notes:



- 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).
- 2005 dredge season, including pre- and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).
- 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).

ATTACHMENT F

2006 New Bedford Harbor On-Site Climatic Data Survey

(January 1 – December 31, 2006, Hourly Data)

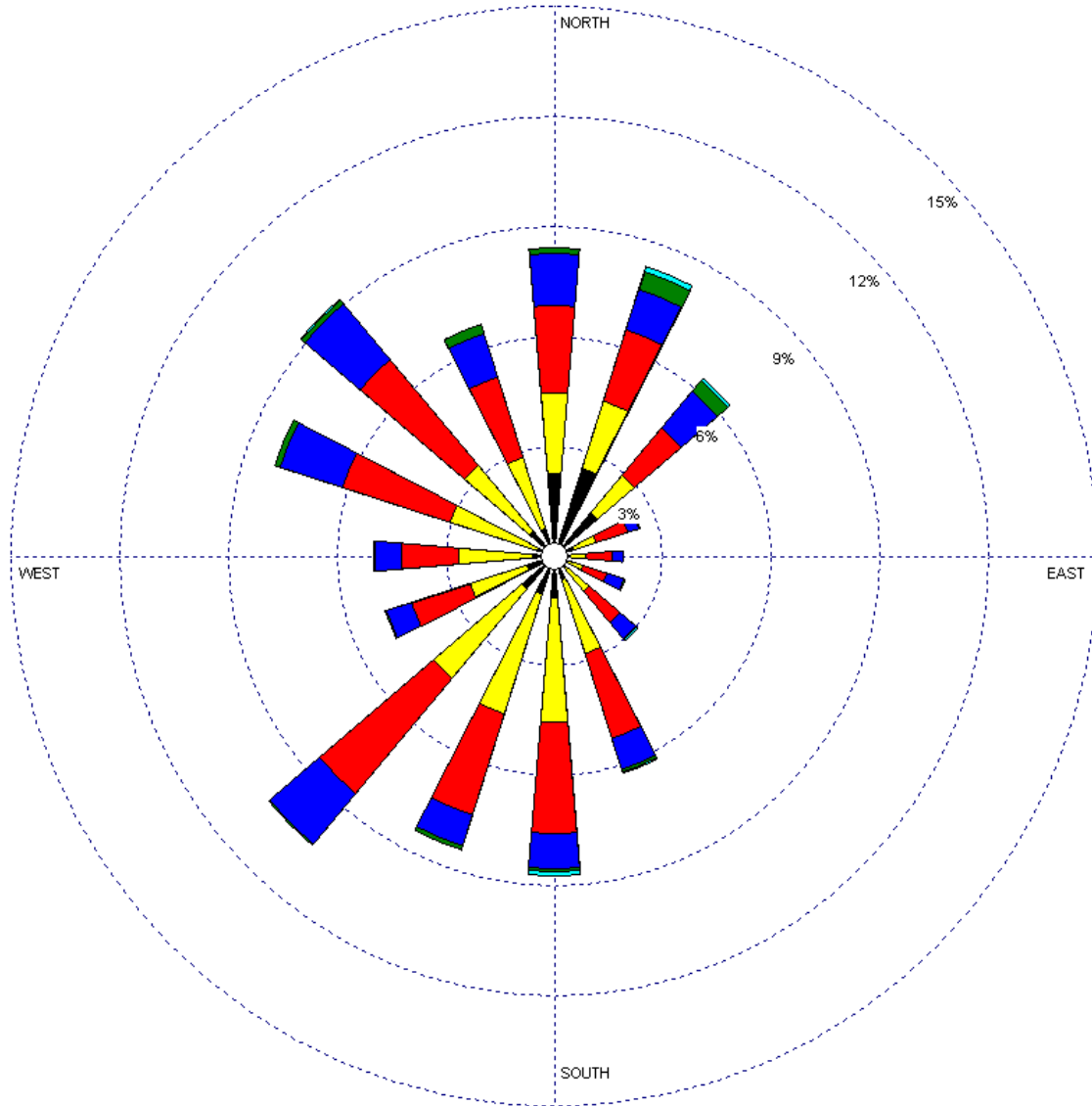
2006 New Bedford Harbor On-Site Climatic Data Summary (January 1 – December 31, 2006 Hourly Data)

Date Range	Time Range	Data File Info
January, 1 - December, 31	Start Time: 00:00	Total No. of Hours: 8146
	End Time: 23:00	Average Wind Speed: 3.79 m/s
 Specify Days	 Specify Time	Calm Hours: 0
		Calm Winds Frequency: 0.00%
		Data Availability: 100.00%
		Incomplete/Missing Hours: 0
		Total Hours Used: 8146

1 m/s (meter per second) = 2.237 mile per hour

(January 1 – December 31, 2006 Hourly Data)

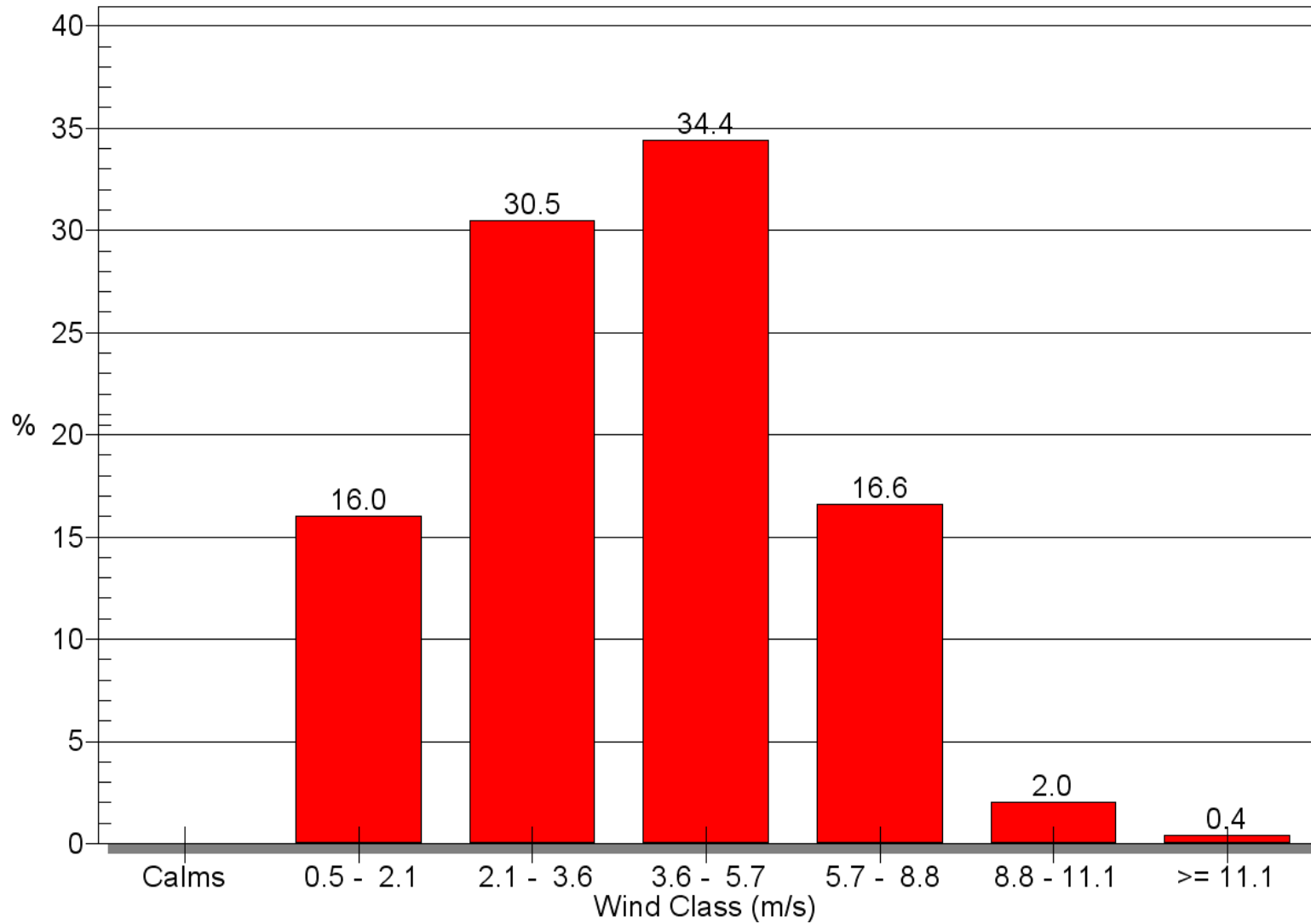
Wind Rose Diagram



1 m/s (meter per second) = 2.237 miles per hour

(January 1 – December 31, 2006 Hourly Data)

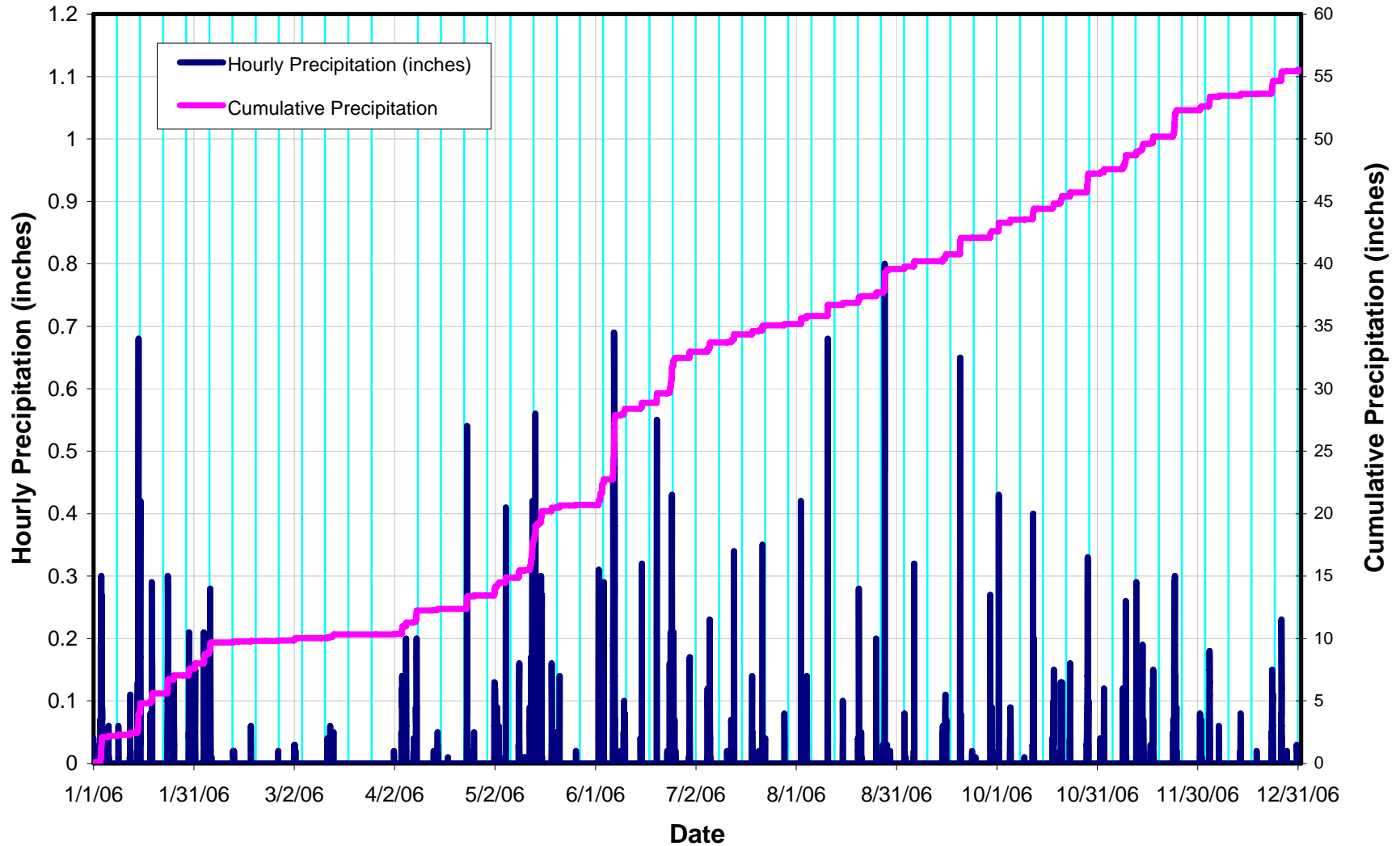
Wind Class Frequency Distribution



1 m/s (meter per second) = 2.237 miles per hour

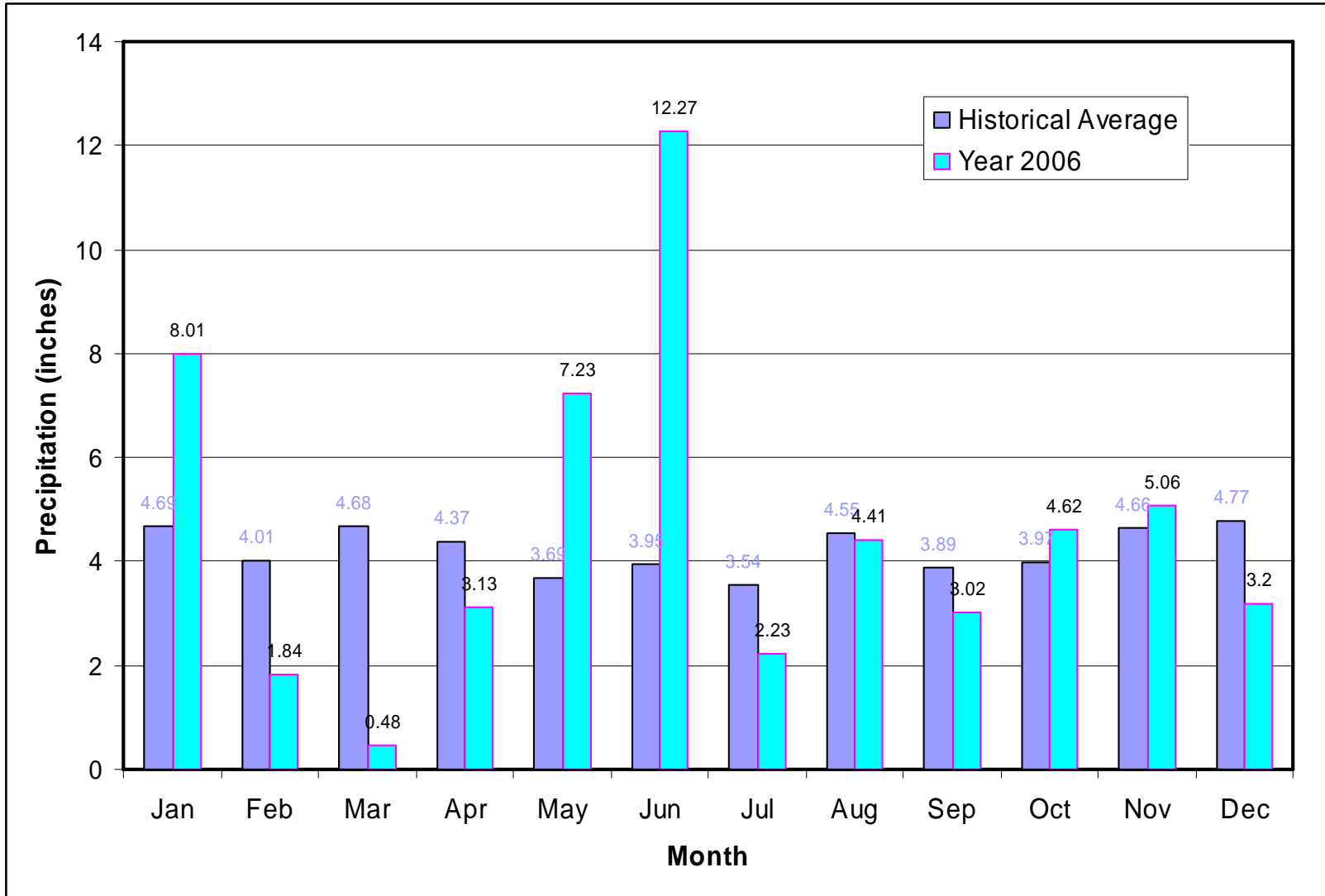
(January 1 – December 31, 2006 Hourly Data)

Precipitation



2006 was a slightly wetter year at NBH. The yearly precipitation (55.50 inches) is higher than the historical average (50.77 inches).

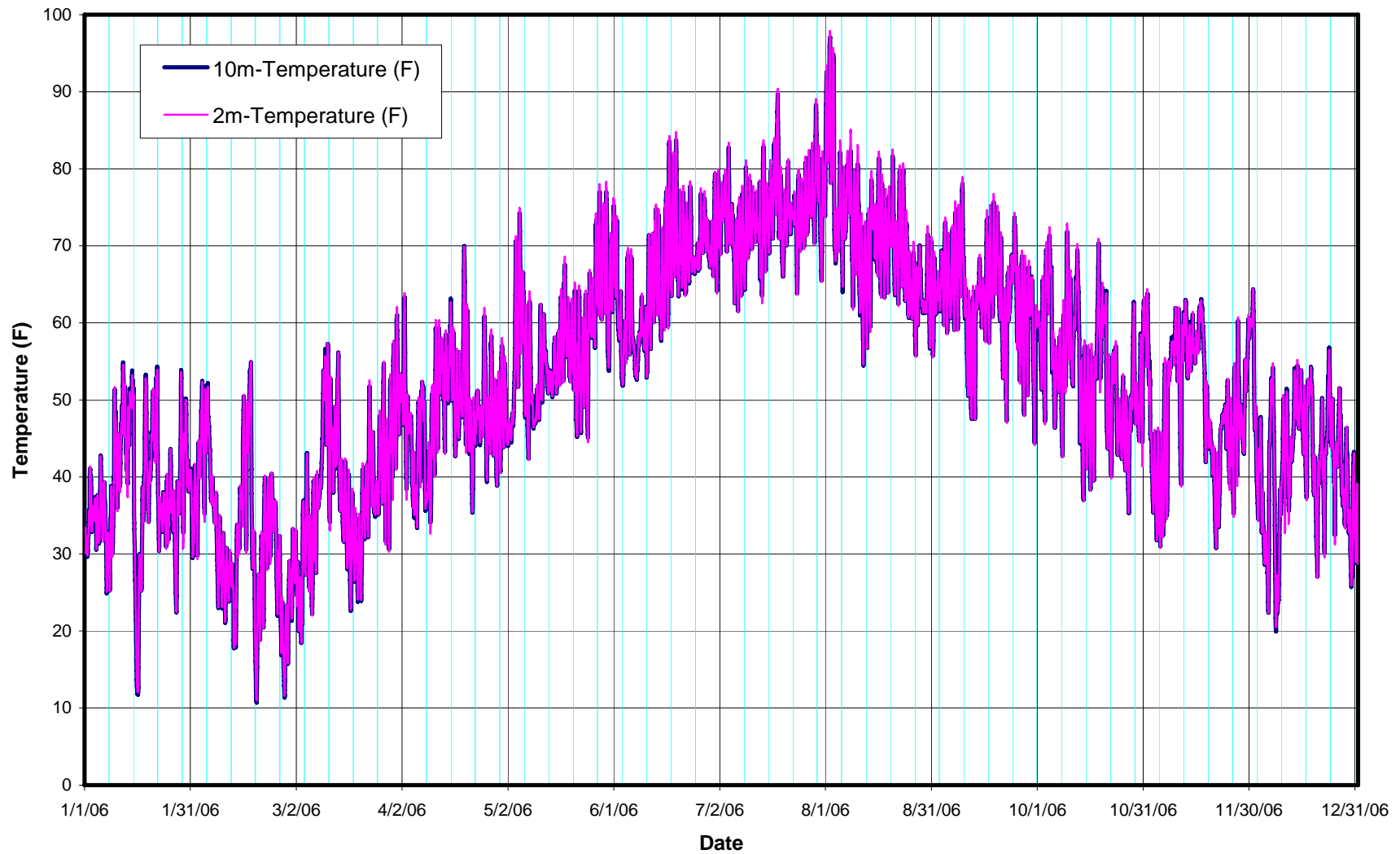
(January 1 – December 31, 2006 Hourly Data)



2006 was drier in Feb-April and wetter in May-June. Precipitation was about normal for the dredging season (Aug-Nov).

(January 1 – December 31, 2006 Hourly Data)

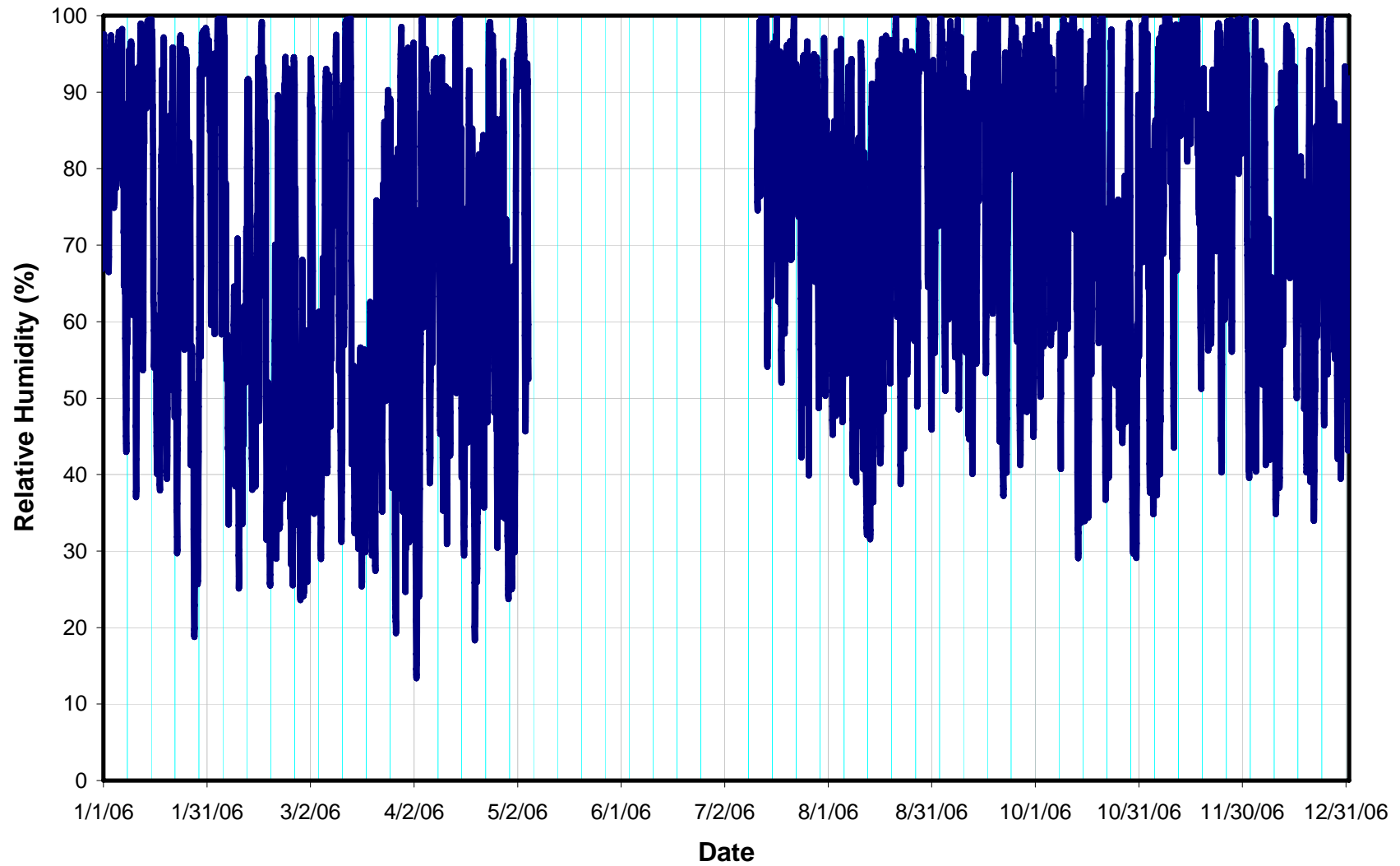
Temperatures



Temperatures recorded at 10m and 2m had a mean difference of 0.097 °F ($T_{-2m} - T_{-10m}$). The largest difference is 5.6 °F.

(January 1 – December 31, 2006 Hourly Data)

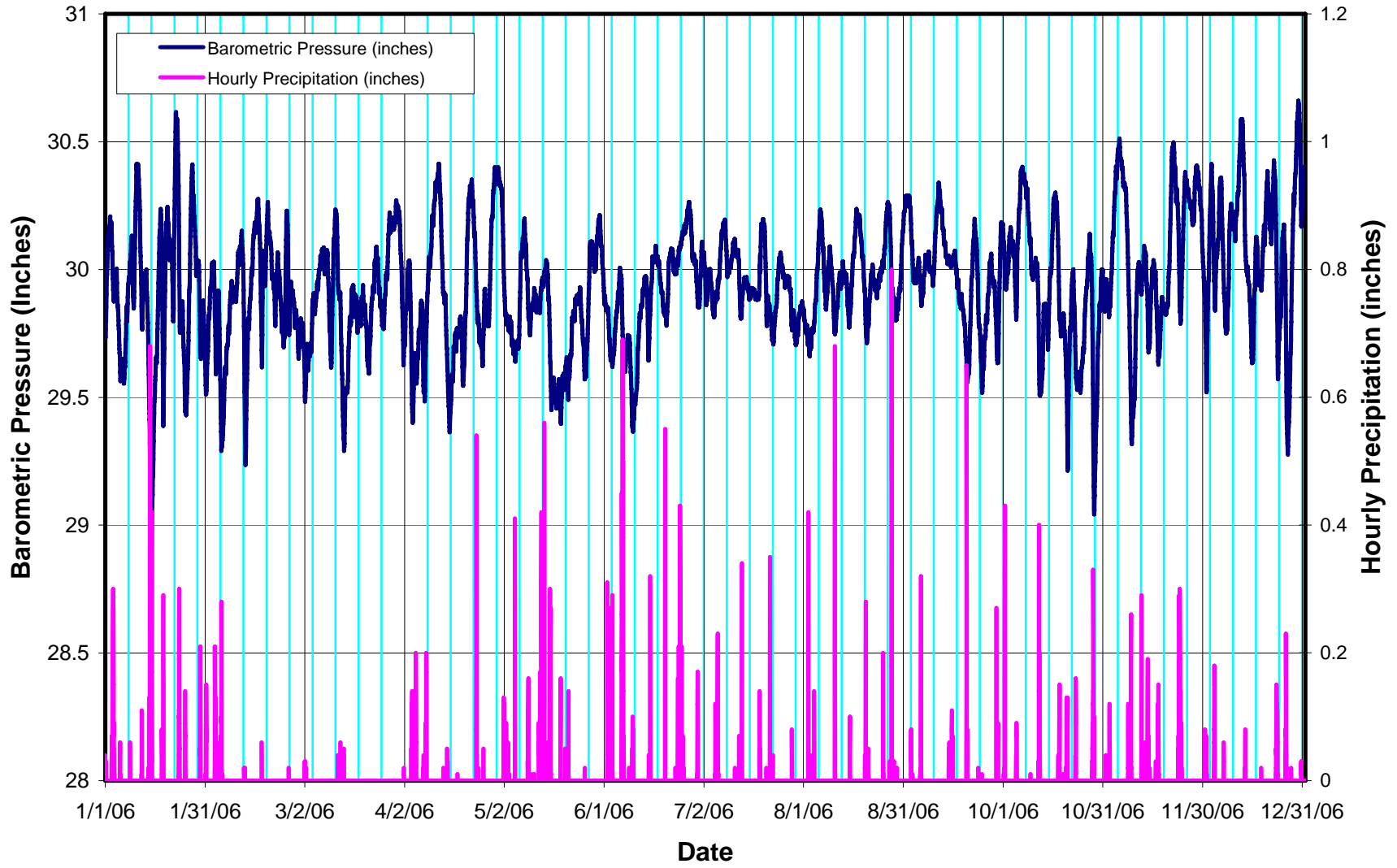
Relative Humidity



Relative humidity data was not recorded between 5/5 to 7/11/2006 when the recording instrument was repaired offsite.

(January 1 – December 31, 2006 Hourly Data)

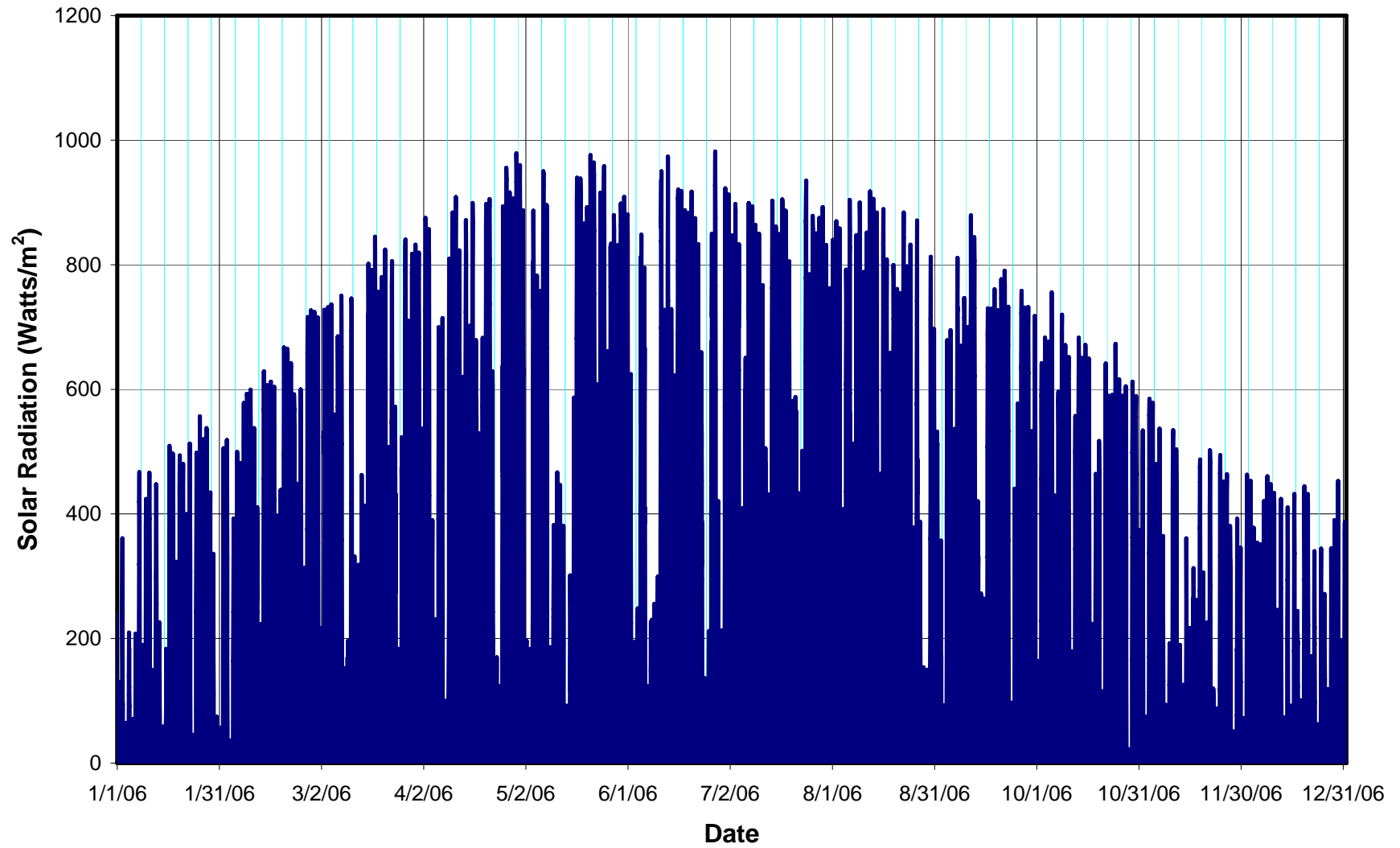
Barometric Pressure



Each precipitation event resulted in a lower barometric pressure reading.

(January 1 – December 31, 2006 Hourly Data)

Solar Radiation



2006 New Bedford Harbor On-Site Climatic Data Summary
For the Sampling Periods

First Monthly Sampling Round -
(7am August 30 – 4pm August 31, 2006)

Second Monthly Sampling Round -
(7am October 4 – 5pm October 6, 2006)

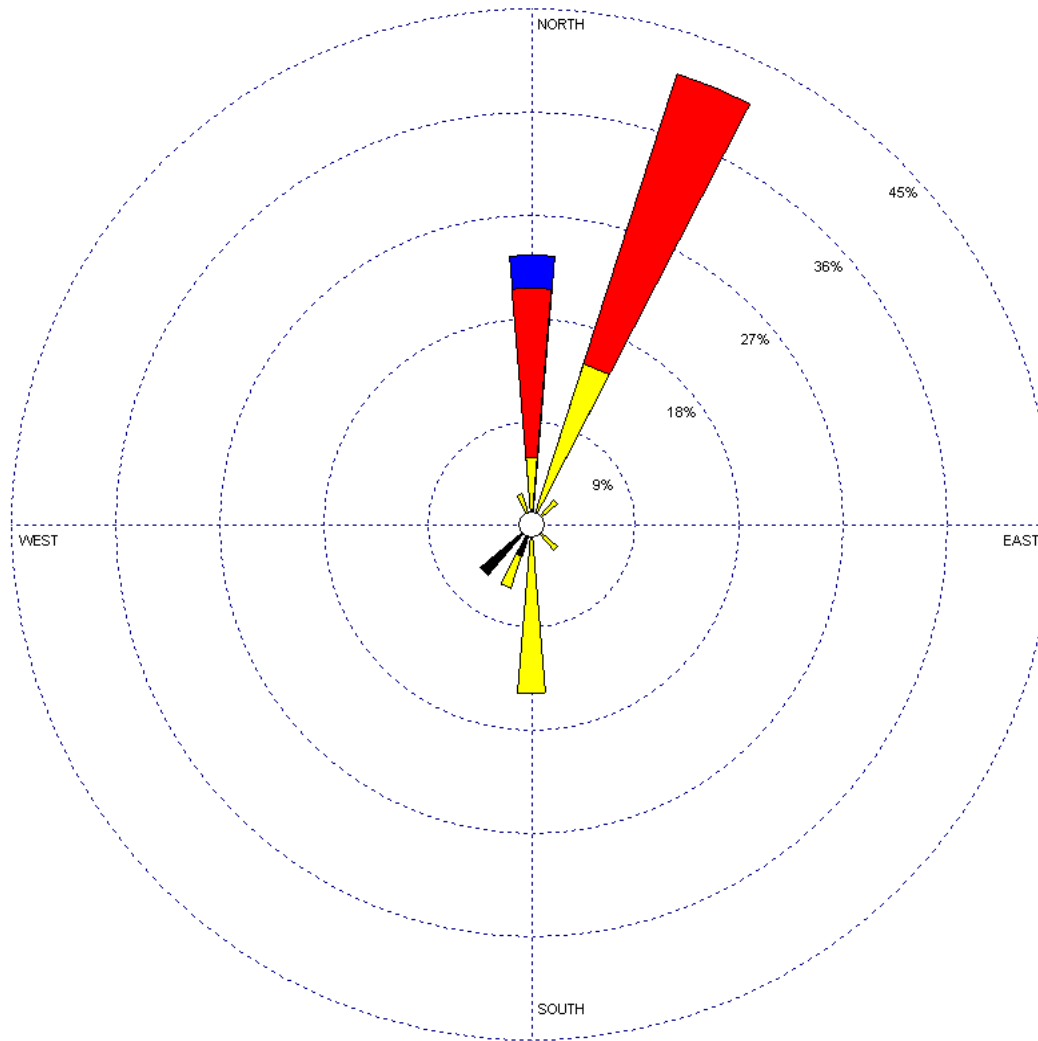
Post Dredging/Demobilization Sampling Round -
(7am November 18 – 1pm November 19, 2006)

First Monthly Sampling Round (7am August 30 – 4pm August 31, 2006 Hourly Data)

Day-Time	Wind Speed (mph)	Wind Direction (degree)	10m-Temperature (F)	2m-Temperature (F)	Delta-T (F)	Relative Humidity (%)	Barometric Pressure (inches)	Solar Radiation (Watts/m2)	Hourly Precipitation (inches)	Tidal Elevation (ft)
8/30/06 7:00 AM	6.73	14.63	61.48	61.43	0.05	96.50	29.87	12.08	0	
8/30/06 8:00 AM	6.98	6.58	62.05	62.14	-0.10	93.66	29.88	78.05	0	
8/30/06 9:00 AM	8.26	16.68	62.91	63.21	-0.30	90.12	29.89	142.59	0	
8/30/06 10:00 AM	8.58	13.47	63.71	64.14	-0.43	86.75	29.90	201.43	0	
8/30/06 11:00 AM	8.71	30.92	64.94	65.66	-0.72	80.19	29.92	360.50	0	
8/30/06 12:00 PM	6.23	25.13	66.25	67.13	-0.89	75.46	29.93	412.92	0	
8/30/06 1:00 PM	4.82	53.00	68.48	69.85	-1.37	66.26	29.93	712.18	0	3.7
8/30/06 2:00 PM	5.42	123.90	70.29	71.77	-1.48	64.54	29.93	812.91	0	
8/30/06 3:00 PM	6.53	177.10	70.96	72.51	-1.55	67.56	29.92	700.88	0	
8/30/06 4:00 PM	6.82	182.40	71.47	72.53	-1.07	65.79	29.92	552.82	0	
8/30/06 5:00 PM	6.65	178.30	71.16	71.96	-0.81	67.35	29.92	418.23	0	
8/30/06 6:00 PM	6.90	177.30	70.57	71.04	-0.47	68.85	29.92	240.39	0	
8/30/06 7:00 PM	5.23	173.40	69.85	69.85	-0.01	70.86	29.92	89.60	0	0.9
8/30/06 8:00 PM	4.26	193.90	68.43	68.01	0.41	79.49	29.93	-0.63	0	
8/30/06 9:00 PM	2.80	202.80	66.19	65.91	0.28	87.76	29.95	-2.91	0	
8/30/06 10:00 PM	2.65	243.80	65.12	64.85	0.27	91.04	29.96	-2.80	0	
8/30/06 11:00 PM	1.98	230.30	64.76	64.39	0.37	91.12	29.97	-1.83	0	
8/31/06 12:00 AM	4.59	330.40	63.81	63.72	0.09	93.12	29.99	-1.64	0	
8/31/06 1:00 AM	9.61	0.31	64.49	64.35	0.14	79.56	30.00	-2.66	0	
8/31/06 2:00 AM	13.31	5.17	63.28	63.20	0.07	71.41	30.00	-2.80	0	3
8/31/06 3:00 AM	10.87	4.64	61.46	61.40	0.06	74.46	30.02	-2.80	0	
8/31/06 4:00 AM	10.37	4.00	60.07	60.03	0.05	76.63	30.04	-2.80	0	
8/31/06 5:00 AM	7.96	359.30	58.86	58.80	0.06	78.42	30.05	-2.81	0	
8/31/06 6:00 AM	6.69	354.60	57.47	57.40	0.07	82.24	30.07	-2.30	0	
8/31/06 7:00 AM	6.25	358.40	56.70	56.75	-0.05	80.13	30.09	49.90	0	0.6
8/31/06 8:00 AM	8.84	5.27	57.53	57.89	-0.36	75.54	30.10	172.76	0	
8/31/06 9:00 AM	9.11	6.85	59.20	59.83	-0.63	71.98	30.11	303.49	0	
8/31/06 10:00 AM	10.66	20.49	61.83	62.80	-0.97	66.03	30.12	525.79	0	
8/31/06 11:00 AM	10.52	24.08	64.13	65.17	-1.03	57.88	30.13	573.88	0	
8/31/06 12:00 PM	11.47	27.48	65.63	66.74	-1.11	51.12	30.14	650.57	0	
8/31/06 1:00 PM	10.03	22.63	66.84	68.09	-1.25	49.32	30.14	697.12	0	
8/31/06 2:00 PM	8.25	19.30	67.22	68.51	-1.29	47.43	30.15	695.12	0	3.7
8/31/06 3:00 PM	6.78	28.51	68.34	69.56	-1.22	46.13	30.15	631.11	0	
8/31/06 4:00 PM	5.90	31.10	69.93	70.79	-0.86	45.88	30.15	456.31	0	
Maximum	13.31		71.47	72.53	0.41	96.50	30.15	812.91	0.00	3.70
Minimum	1.98		56.70	56.75	-1.55	45.88	29.87	-2.91	0.00	0.60
Average	7.38		64.86	65.34	-0.47	73.25	30.00	278.37	0.00	2.38

First Monthly Sampling Round (7am August 30 – 4pm August 31, 2006 Hourly Data)

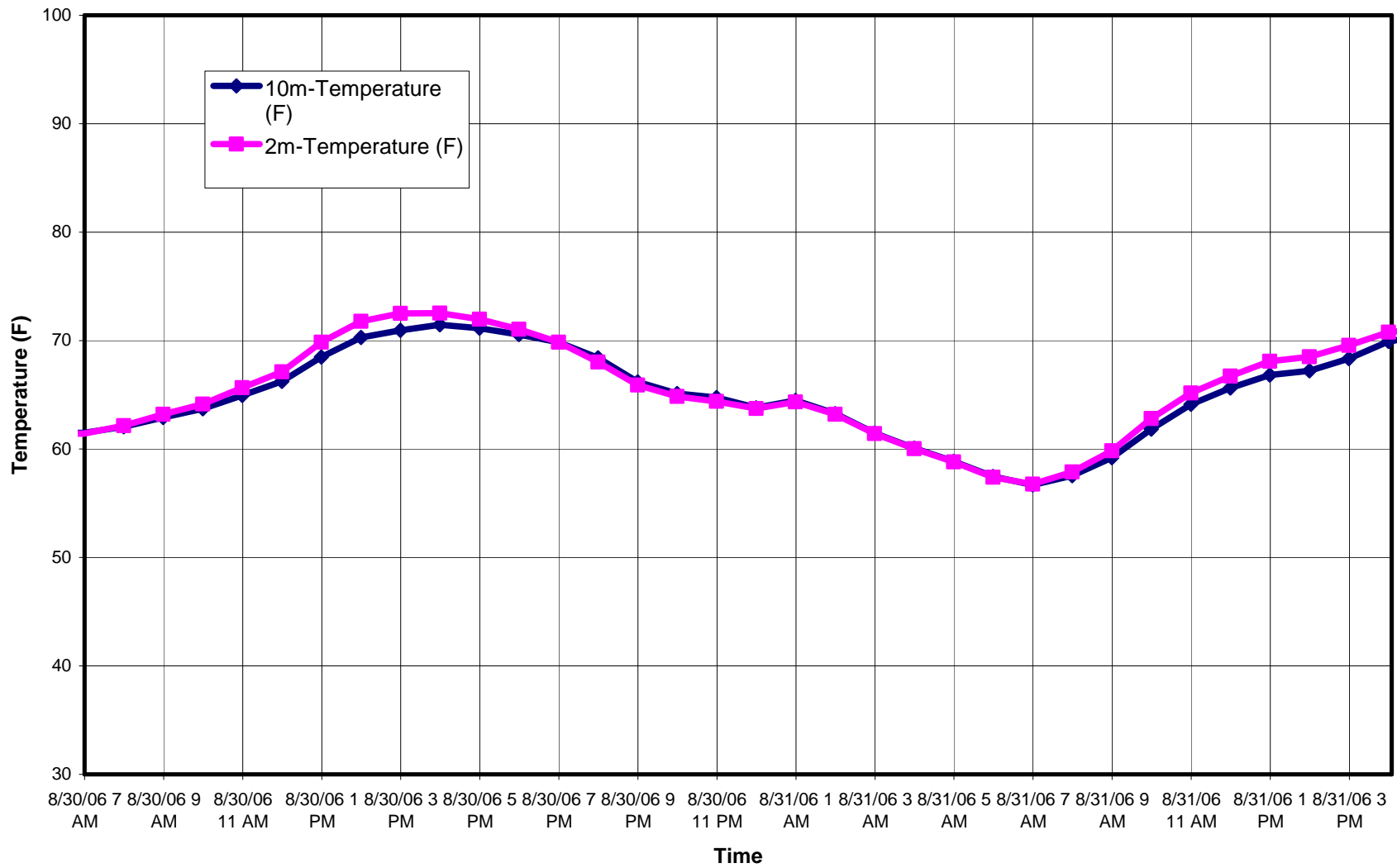
Wind Rose Diagram



1 m/s (meter per second) = 2.237 miles per hour

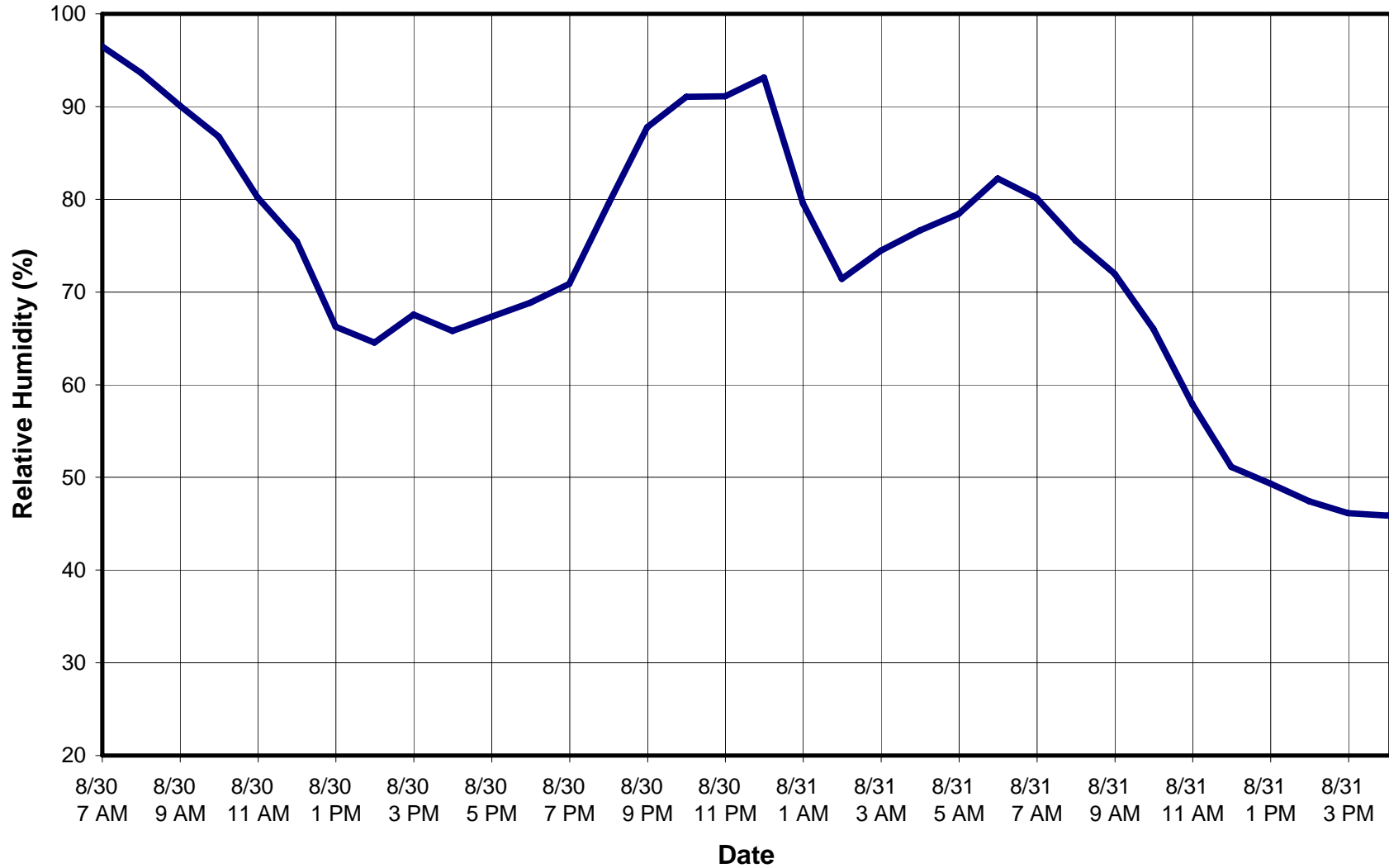
First Monthly Sampling Round (7am August 30 – 4pm August 31, 2006 Hourly Data)

Temperature



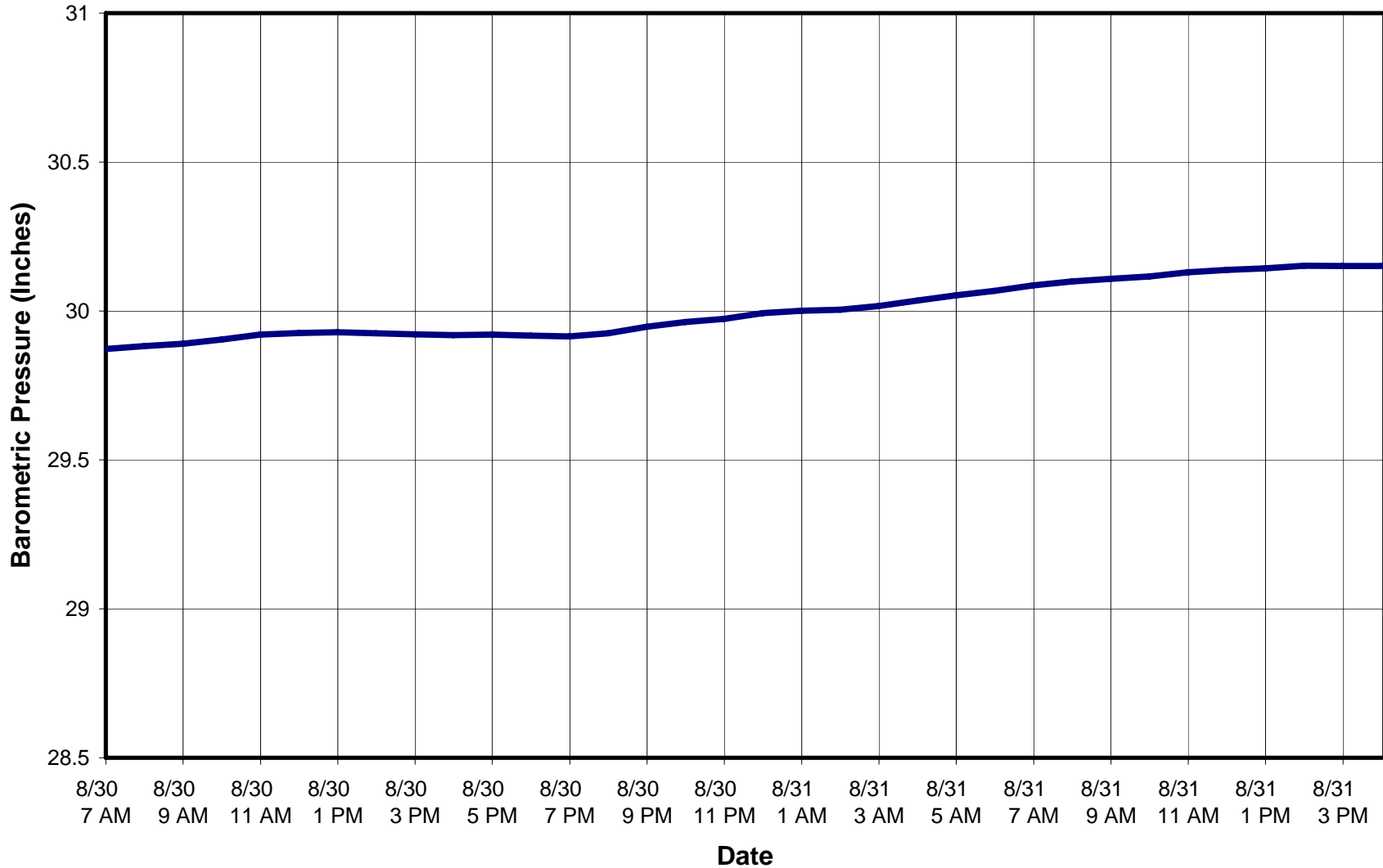
First Monthly Sampling Round (7am August 30 – 4pm August 31, 2006 Hourly Data)

Relative Humidity



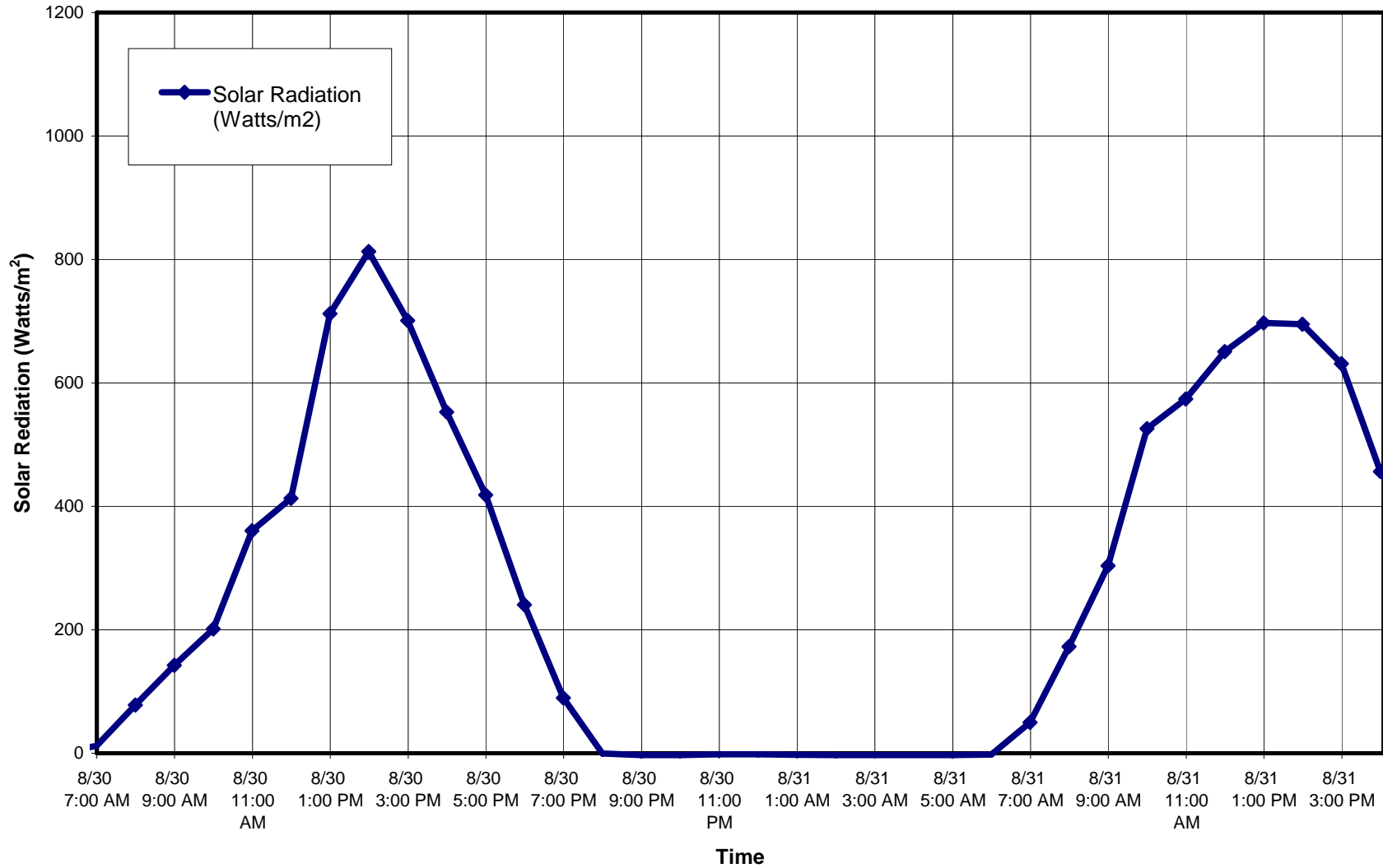
First Monthly Sampling Round (7am August 30 – 4pm August 31, 2006 Hourly Data)

Barometric Pressure



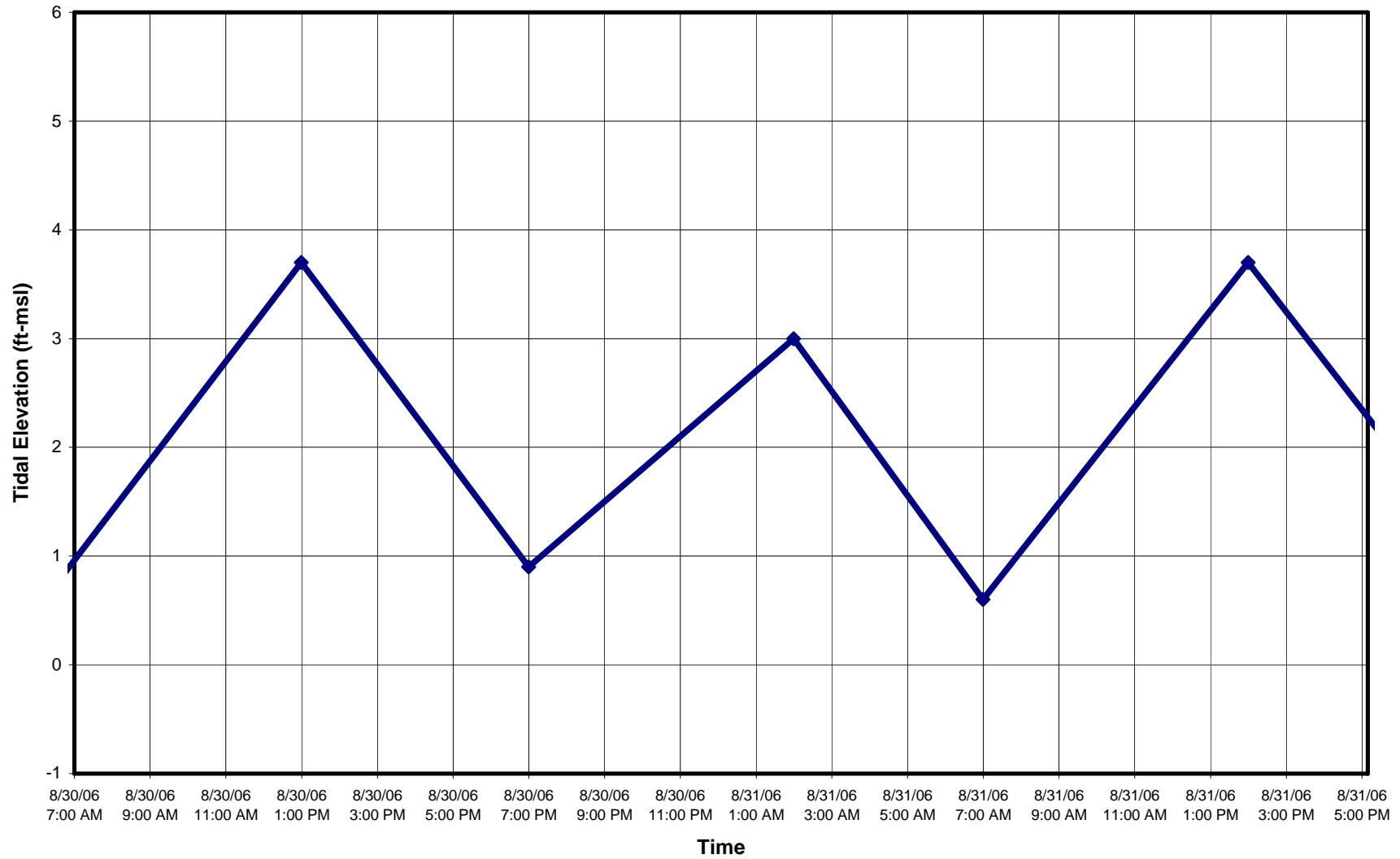
First Monthly Sampling Round (7am August 30 – 4pm August 31, 2006 Hourly Data)

Solar Radiation



First Monthly Sampling Round (7am August 30 – 4pm August 31, 2006 Hourly Data)

Tidal (ft)



Second Monthly Sampling Round (7am October 4 – 5pm October 6, 2006 Hourly Data)

Day-Time	Wind Speed (mph)	Wind Direction (degree)	10m-Temperature (F)	2m-Temperature (F)	Delta-T (F)	Relative Humidity (%)	Barometric Pressure (inches)	Solar Radiation (Watts/m2)	Hourly Precipitation (inches)	Tidal Elevation (ft)
10/4/06 7:00 AM	2.43	247.00	61.49	61.09	0.39	99.75	30.08	3.07	0	
10/4/06 8:00 AM	3.02	186.10	61.99	61.61	0.38	99.66	30.09	86.92	0	
10/4/06 9:00 AM	4.43	198.60	62.80	62.70	0.10	97.59	30.09	111.80	0	
10/4/06 10:00 AM	5.28	203.40	64.68	64.80	-0.12	93.14	30.09	140.64	0	
10/4/06 11:00 AM	6.32	226.90	67.21	67.74	-0.53	83.87	30.07	315.29	0	
10/4/06 12:00 PM	8.66	215.20	69.69	70.63	-0.95	73.45	30.05	623.71	0	-0.1
10/4/06 1:00 PM	9.50	205.00	71.33	72.40	-1.07	69.25	30.03	676.35	0	
10/4/06 2:00 PM	10.74	210.40	70.34	71.18	-0.84	72.12	30.01	522.63	0	
10/4/06 3:00 PM	12.05	207.10	69.64	70.41	-0.77	75.67	29.98	461.53	0	
10/4/06 4:00 PM	11.90	220.50	69.51	70.12	-0.61	77.68	29.97	395.23	0	
10/4/06 5:00 PM	10.55	213.60	68.98	69.40	-0.42	79.54	29.95	231.47	0	
10/4/06 6:00 PM	11.46	215.30	67.47	67.64	-0.17	85.42	29.94	81.19	0	
10/4/06 7:00 PM	13.89	219.90	66.72	66.75	-0.03	89.41	29.92	1.23	0	4.6
10/4/06 8:00 PM	13.08	230.00	66.94	66.98	-0.04	88.42	29.91	-0.01	0	
10/4/06 9:00 PM	11.50	227.50	66.61	66.56	0.04	90.17	29.90	-1.54	0	
10/4/06 10:00 PM	9.91	225.40	66.50	66.45	0.05	91.66	29.88	-0.55	0	
10/4/06 11:00 PM	9.98	224.70	66.93	66.85	0.08	90.58	29.86	-2.15	0	
10/5/06 12:00 AM	10.22	220.40	66.81	66.75	0.07	90.46	29.84	-0.65	0	
10/5/06 1:00 AM	10.79	223.40	67.10	66.99	0.11	91.16	29.82	-0.53	0.04	-0.3
10/5/06 2:00 AM	10.87	232.50	67.13	66.88	0.25	93.43	29.80	0.60	0	
10/5/06 3:00 AM	9.68	254.00	67.23	66.98	0.25	94.46	29.81	0.00	0.05	
10/5/06 4:00 AM	7.34	268.10	66.71	66.43	0.28	95.88	29.82	0.00	0.09	
10/5/06 5:00 AM	12.38	351.60	61.64	61.58	0.06	93.36	29.85	0.32	0.07	
10/5/06 6:00 AM	14.33	353.40	58.05	58.11	-0.06	88.09	29.90	2.26	0	
10/5/06 7:00 AM	14.43	350.90	55.37	55.52	-0.15	84.28	29.96	2.39	0	4.8
10/5/06 8:00 AM	14.73	358.30	53.75	53.95	-0.21	81.74	30.01	17.45	0	
10/5/06 9:00 AM	13.91	1.91	53.53	53.98	-0.44	75.64	30.05	195.18	0	
10/5/06 10:00 AM	18.25	17.36	54.96	55.72	-0.76	65.42	30.08	440.62	0	
10/5/06 11:00 AM	18.49	22.48	55.30	55.98	-0.68	64.45	30.10	358.30	0	
10/5/06 12:00 PM	16.65	26.06	56.48	57.61	-1.12	60.35	30.11	755.73	0	
10/5/06 1:00 PM	16.51	32.57	56.75	57.97	-1.22	59.27	30.12	742.59	0	-0.5
10/5/06 2:00 PM	14.53	33.00	57.27	58.38	-1.12	58.31	30.13	587.77	0	
10/5/06 3:00 PM	14.47	45.78	57.79	58.94	-1.14	56.92	30.12	580.97	0	
10/5/06 4:00 PM	13.53	49.80	57.85	58.79	-0.95	58.40	30.12	463.23	0	

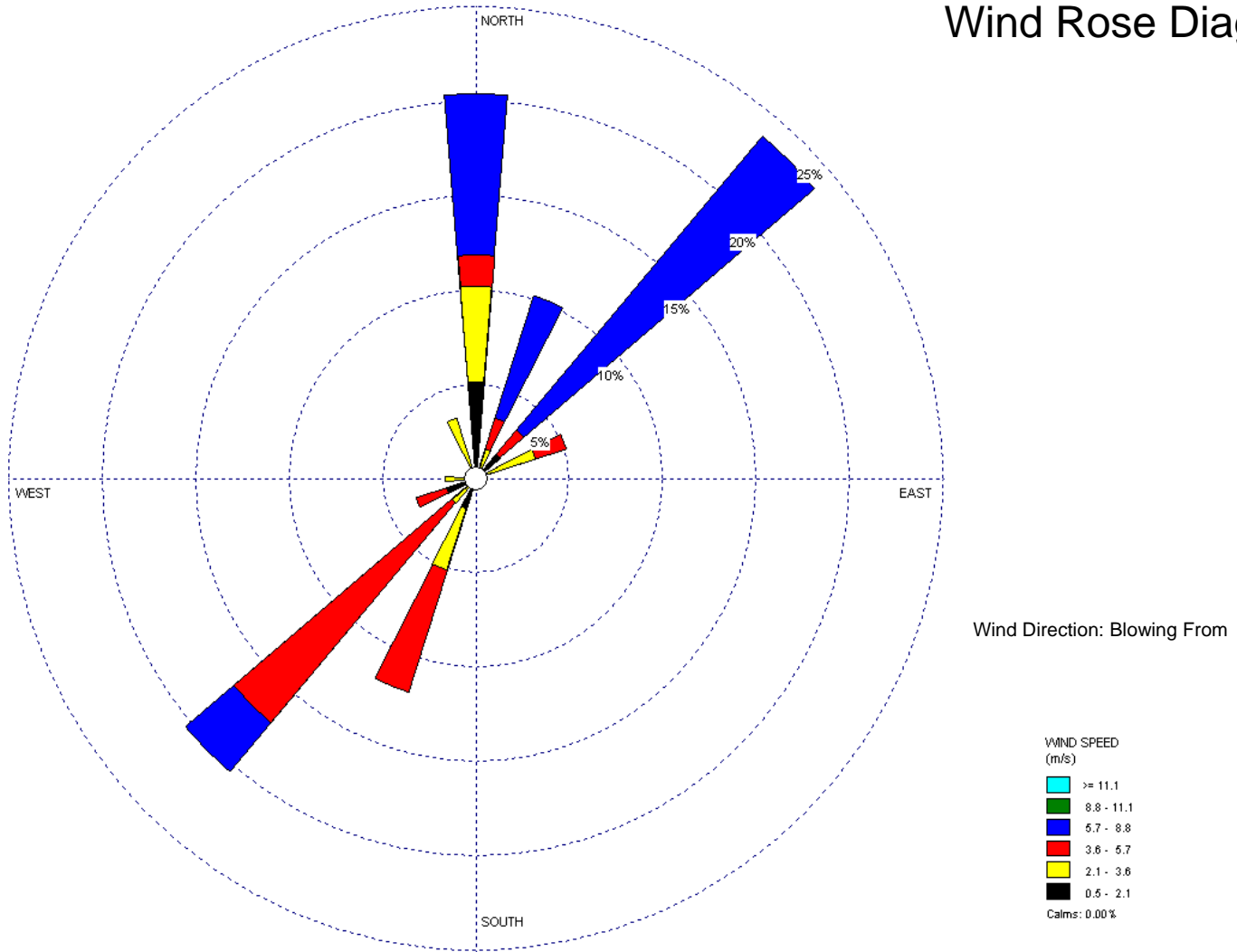
Continued on Next Page

Second Monthly Sampling Round (7am October 4 – 5pm October 6, 2006 Hourly Data)

Day-Time	Wind Speed (mph)	Wind Direction (degree)	10m-Temperature (F)	2m-Temperature (F)	Delta-T (F)	Relative Humidity (%)	Barometric Pressure (inches)	Solar Radiation (Watts.m2)	Hourly Precipitation (inches)	Tidal Elevation (ft)
10/5/06 5:00 PM	12.63	48.24	57.44	58.13	-0.69	61.29	30.14	293.61	0	
10/5/06 6:00 PM	11.15	55.94	56.04	56.45	-0.41	63.49	30.15	99.56	0	
10/5/06 7:00 PM	5.56	60.92	54.00	54.08	-0.07	73.89	30.18	-0.48	0	
10/5/06 8:00 PM	4.28	55.98	52.66	52.65	0.01	78.03	30.20	-3.00	0	4.8
10/5/06 9:00 PM	2.95	41.13	51.49	51.36	0.13	81.60	30.20	-2.95	0	
10/5/06 10:00 PM	3.50	5.44	50.58	50.32	0.26	86.82	30.22	-2.98	0	
10/5/06 11:00 PM	2.47	350.90	49.19	48.90	0.29	89.97	30.23	-3.05	0	
10/6/06 12:00 AM	3.35	357.20	48.05	47.85	0.20	89.98	30.24	-2.85	0	
10/6/06 1:00 AM	4.45	9.55	46.47	46.36	0.12	94.37	30.24	-3.02	0	
10/6/06 2:00 AM	5.96	3.49	46.37	46.37	0.00	89.62	30.24	-3.26	0	-0.6
10/6/06 3:00 AM	5.91	3.61	46.62	46.60	0.02	86.69	30.24	-2.67	0	
10/6/06 4:00 AM	4.69	338.70	47.49	47.55	-0.06	83.04	30.25	-0.90	0	
10/6/06 5:00 AM	6.60	357.00	47.33	47.43	-0.10	86.39	30.28	-1.24	0	
10/6/06 6:00 AM	6.37	342.90	47.26	47.35	-0.09	89.71	30.30	-1.10	0	
10/6/06 7:00 AM	7.60	8.11	48.40	48.53	-0.14	88.96	30.31	1.23	0	
10/6/06 8:00 AM	7.81	25.50	50.57	50.83	-0.26	80.72	30.33	90.65	0	5.2
10/6/06 9:00 AM	11.06	38.24	53.16	53.69	-0.53	68.25	30.35	225.06	0	
10/6/06 10:00 AM	15.35	44.82	55.14	55.95	-0.81	59.76	30.37	429.40	0	
10/6/06 11:00 AM	17.95	45.42	56.00	56.72	-0.72	60.00	30.38	399.59	0	
10/6/06 12:00 PM	18.85	50.38	56.18	56.95	-0.77	59.11	30.39	389.80	0	
10/6/06 1:00 PM	17.52	47.68	56.21	56.97	-0.76	59.91	30.39	399.05	0	
10/6/06 2:00 PM	18.13	44.08	55.94	56.63	-0.69	61.82	30.38	293.09	0	-0.7
10/6/06 3:00 PM	17.45	47.40	55.30	55.84	-0.54	64.88	30.36	160.22	0	
10/6/06 4:00 PM	15.84	44.16	54.83	55.34	-0.51	68.32	30.37	160.20	0	
10/6/06 5:00 PM	14.61	42.63	54.44	54.86	-0.42	69.95	30.39	92.79	0	
Maximum	18.85		71.33	72.40	0.39	99.75	30.39	755.73	0.09	5.20
Minimum	2.43		46.37	46.36	-1.22	56.92	29.80	-3.26	0.00	-0.70
Average	10.64		58.47	58.77	-0.30	79.08	30.11	183.05	0.00	1.91

Second Monthly Sampling Round (7am October 4 – 5pm October 6, 2006 Hourly Data)

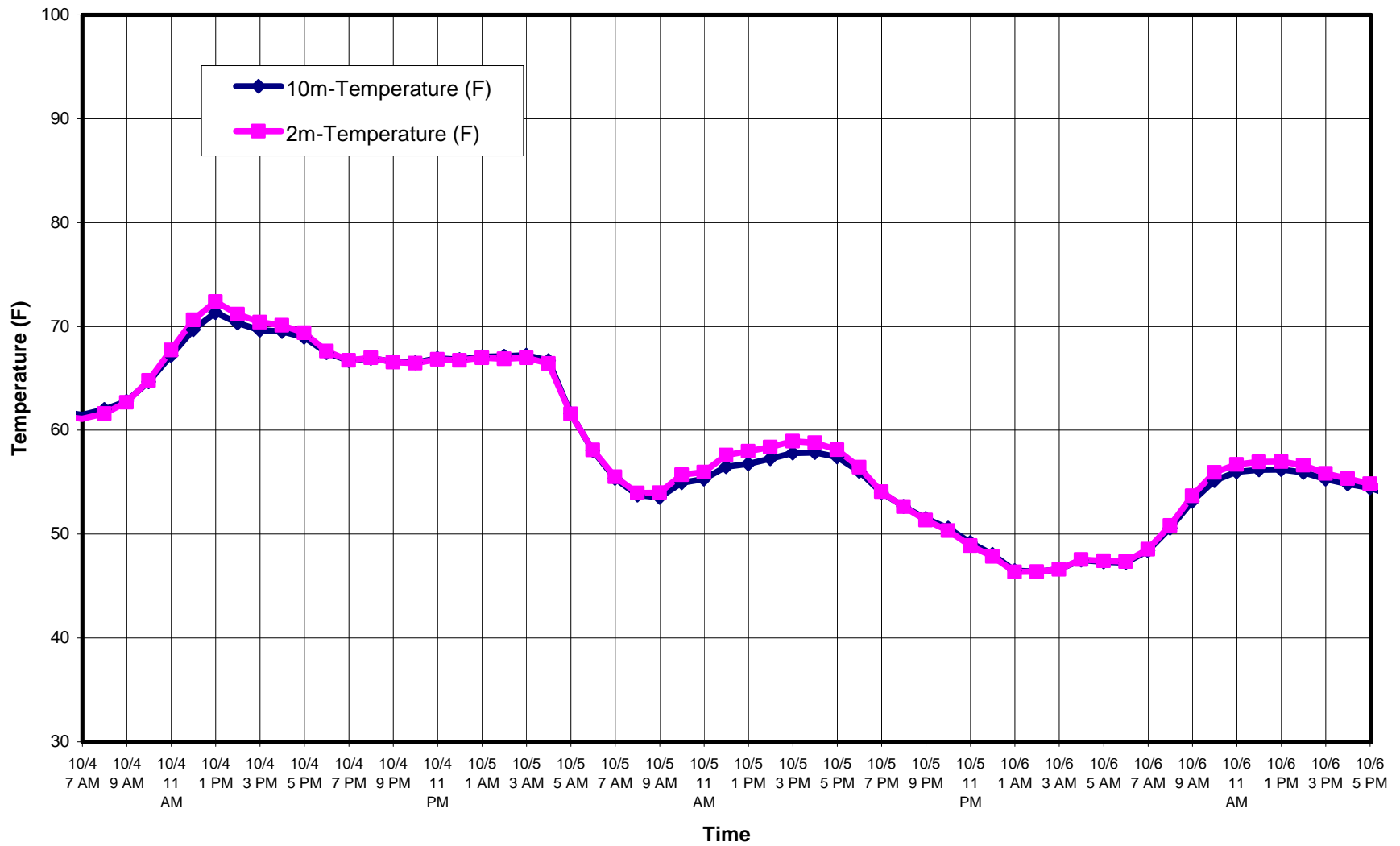
Wind Rose Diagram



1 m/s (meter per second) = 2.237 miles per hour

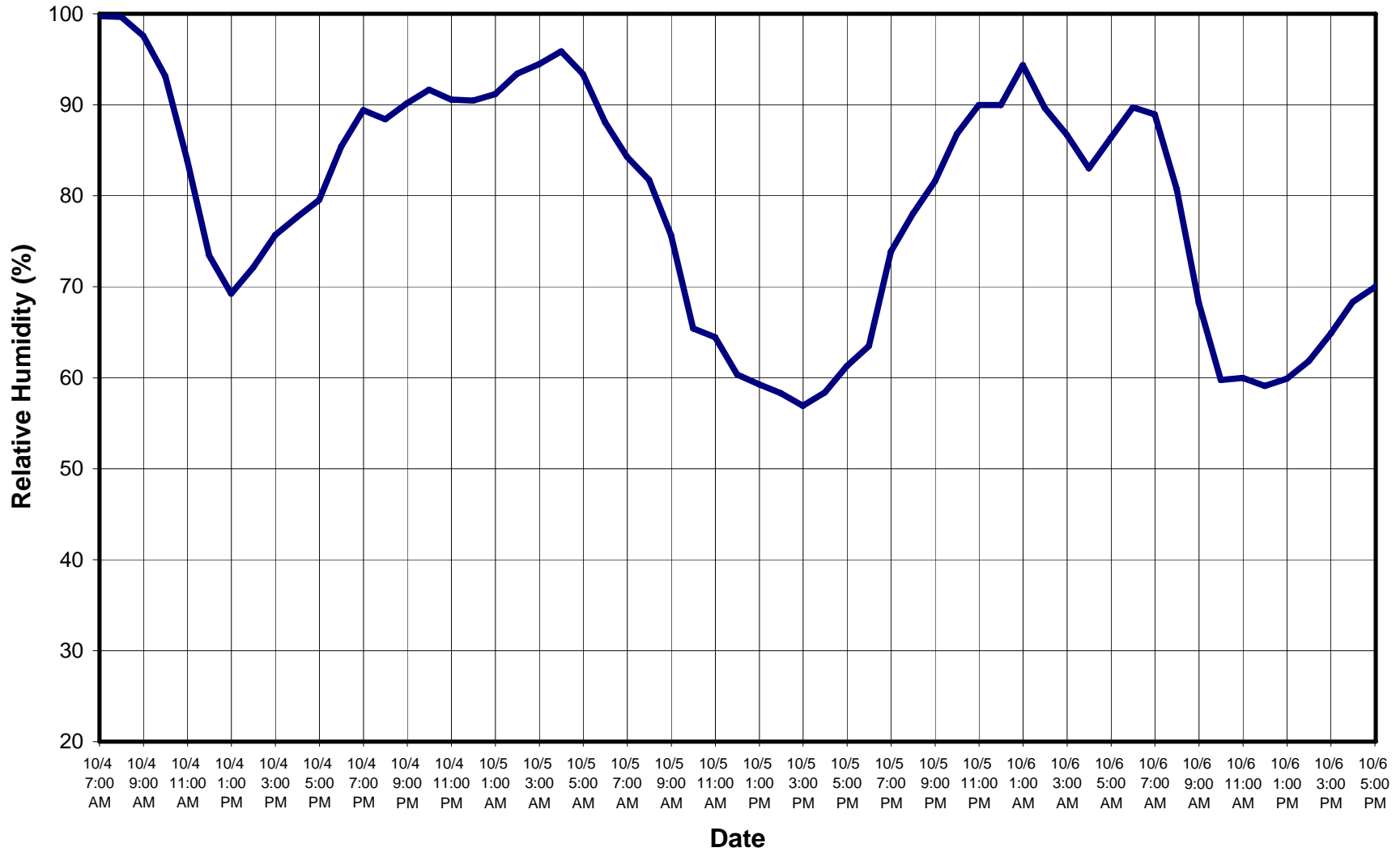
Second Monthly Sampling Round (7am October 4 – 5pm October 6, 2006 Hourly Data)

Temperature



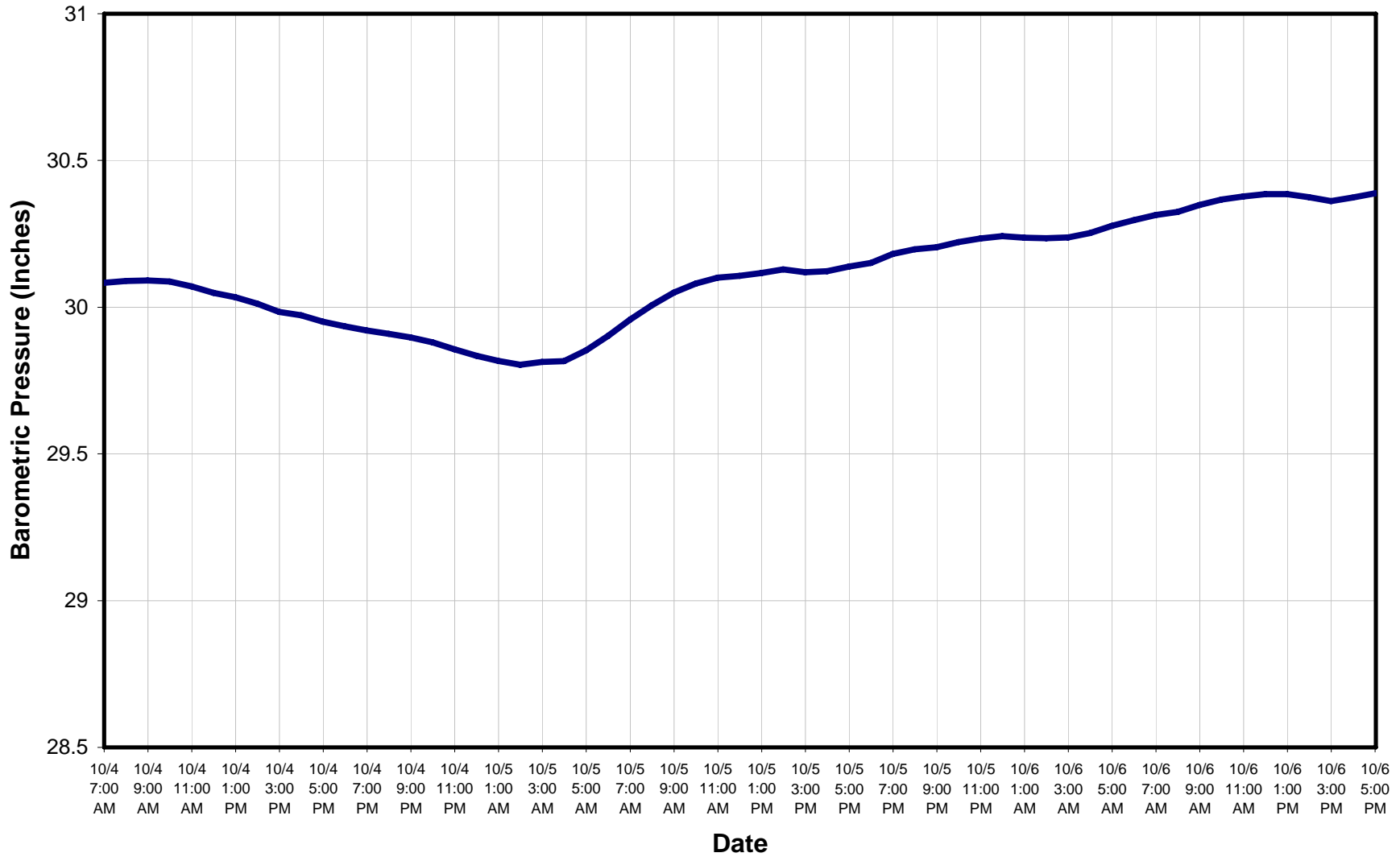
Second Monthly Sampling Round (7am October 4 – 5pm October 6, 2006 Hourly Data)

Relative Humidity



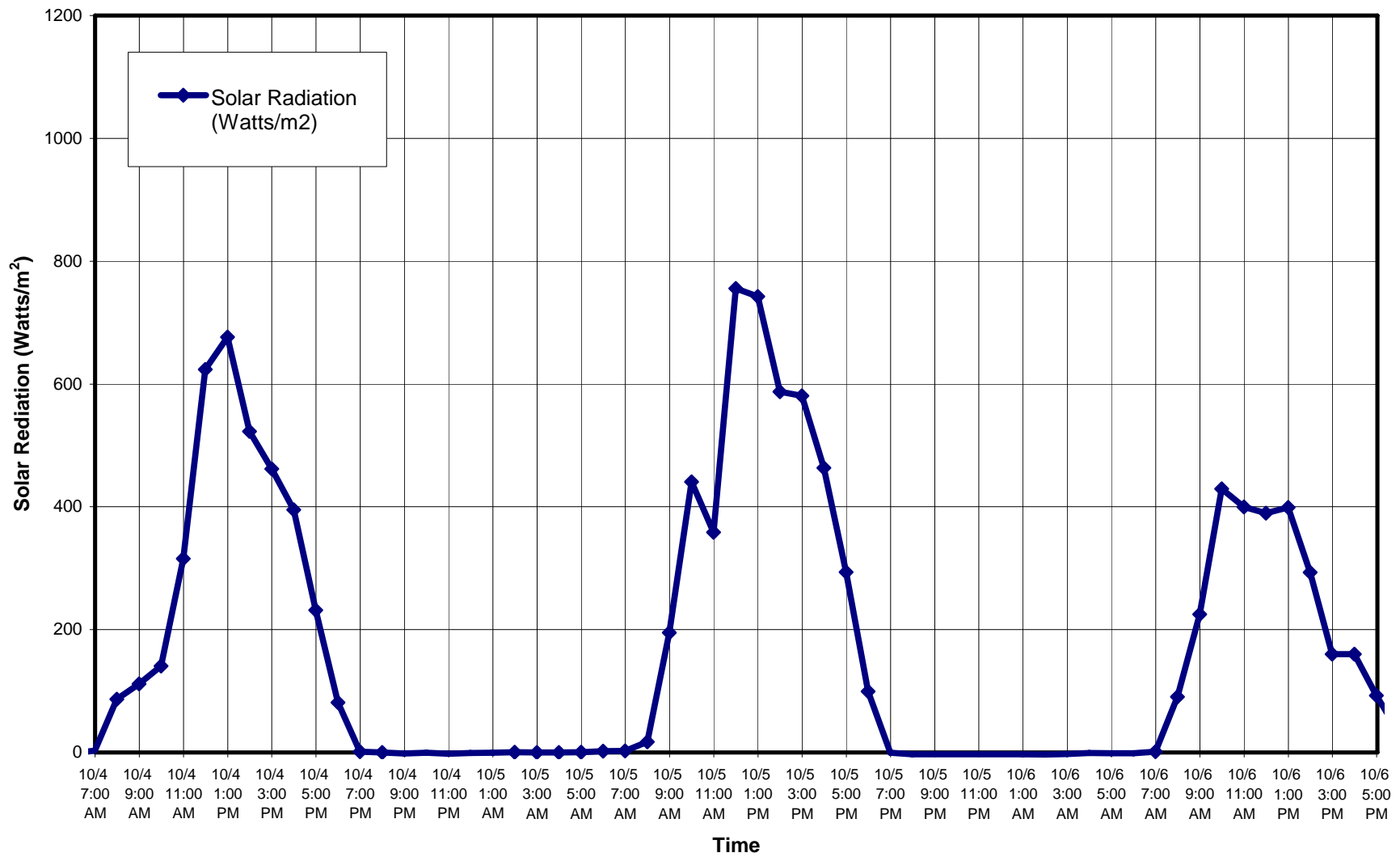
Second Monthly Sampling Round (7am October 4 – 5pm October 6, 2006 Hourly Data)

Barometric Pressure



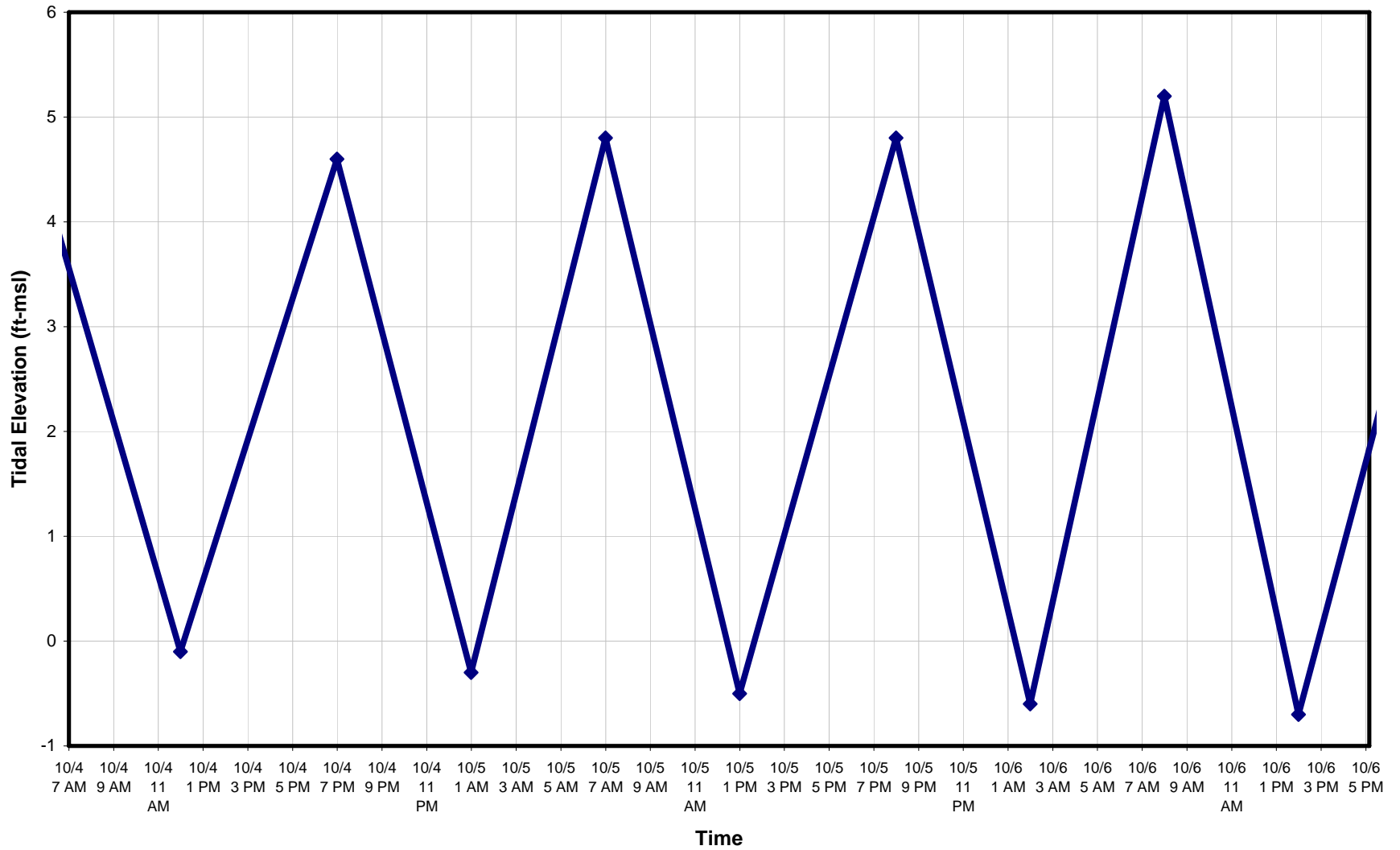
Second Monthly Sampling Round (7am October 4 – 5pm October 6, 2006 Hourly Data)

Solar Radiation



Second Monthly Sampling Round (7am October 4 – 5pm October 6, 2006 Hourly Data)

Tidal (ft)

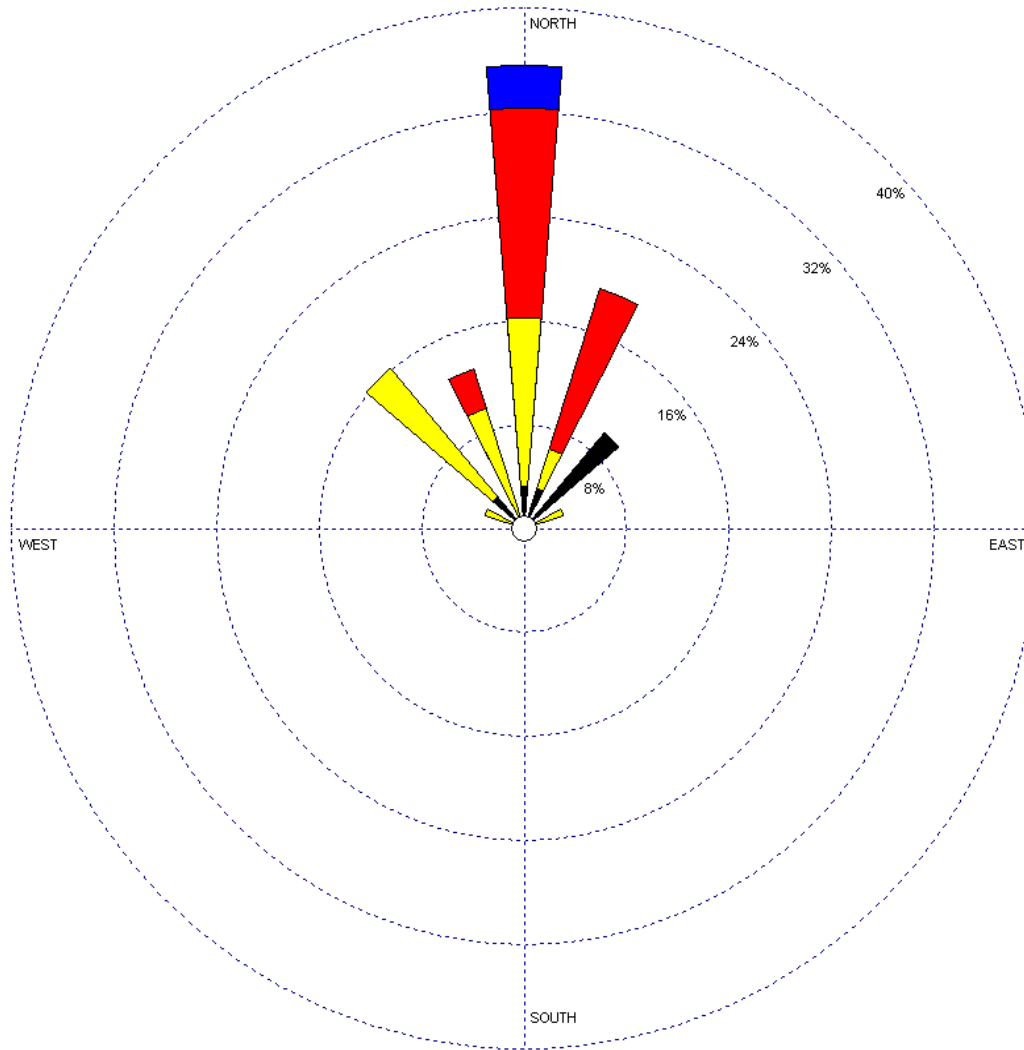


Post Dredging/Demobilization Sampling Round (7am November 18 – 1pm November 19, 2006 Hourly Data)

Day-Time	Wind Speed (mph)	Wind Direction (degree)	10m- Temperature (F)	2m- Temperature (F)	Delta-T (F)	Relative Humidity (%)	Barometric Pressure (inches)	Solar Radiation (Watts/m2)	Hourly Precipitation (inches)	Tidal Elevation (ft)
11/18/06 7:00 AM	4.17	315.30	42.89	42.92	-0.03	81.23	29.86	-2.98	0	
11/18/06 8:00 AM	3.77	314.50	41.91	41.96	-0.06	83.46	29.87	6.30	0	
11/18/06 9:00 AM	6.22	307.30	42.68	43.01	-0.33	74.81	29.89	114.35	0	
11/18/06 10:00 AM	7.75	329.30	45.54	45.98	-0.44	64.55	29.89	276.98	0	
11/18/06 11:00 AM	8.92	348.00	47.65	48.12	-0.47	59.25	29.89	377.16	0	
11/18/06 12:00 PM	6.26	1.51	48.55	49.13	-0.58	57.69	29.89	450.85	0	0.3
11/18/06 1:00 PM	4.05	349.40	49.74	50.42	-0.68	54.35	29.87	475.01	0	
11/18/06 2:00 PM	4.36	295.60	51.03	51.79	-0.76	51.45	29.85	487.39	0	
11/18/06 3:00 PM	5.83	320.80	51.64	52.25	-0.61	51.84	29.84	386.32	0	
11/18/06 4:00 PM	5.59	304.80	51.85	52.40	-0.55	51.22	29.83	267.80	0	
11/18/06 5:00 PM	6.38	351.40	51.65	51.92	-0.28	54.89	29.84	75.89	0	
11/18/06 6:00 PM	5.43	18.25	50.71	50.92	-0.21	60.72	29.85	1.44	0	
11/18/06 7:00 PM	5.95	56.49	48.02	48.33	-0.30	72.96	29.86	-0.96	0	3.6
11/18/06 8:00 PM	2.55	63.94	47.50	47.66	-0.16	73.85	29.86	-0.72	0	
11/18/06 9:00 PM	3.23	33.11	47.35	47.49	-0.15	75.57	29.87	-0.24	0	
11/18/06 10:00 PM	2.07	32.99	47.10	47.22	-0.12	77.97	29.87	-0.52	0	
11/18/06 11:00 PM	1.26	50.59	47.07	47.12	-0.05	79.57	29.87	-0.48	0	
11/19/06 12:00 AM	4.57	351.20	46.56	46.71	-0.15	80.89	29.86	-0.43	0	0.1
11/19/06 1:00 AM	3.63	347.00	45.94	46.11	-0.17	82.15	29.86	-0.75	0	
11/19/06 2:00 AM	5.51	341.00	45.37	45.55	-0.18	83.97	29.85	-0.30	0	
11/19/06 3:00 AM	7.20	351.40	44.87	45.06	-0.19	81.39	29.84	-0.34	0	
11/19/06 4:00 AM	6.86	2.83	44.56	44.74	-0.18	80.00	29.84	-0.42	0	
11/19/06 5:00 AM	10.71	11.39	43.98	44.16	-0.18	88.04	29.83	-1.17	0	
11/19/06 6:00 AM	9.02	355.40	43.68	43.83	-0.15	87.98	29.83	-0.57	0	
11/19/06 7:00 AM	10.50	3.48	43.66	43.81	-0.15	90.26	29.83	-0.22	0	4.3
11/19/06 8:00 AM	14.09	13.10	44.23	44.39	-0.16	93.03	29.84	1.70	0	
11/19/06 9:00 AM	11.46	13.51	44.02	44.22	-0.20	93.12	29.85	36.87	0	
11/19/06 10:00 AM	9.99	6.77	43.76	44.04	-0.28	89.13	29.86	107.85	0	
11/19/06 11:00 AM	11.81	10.20	44.39	44.94	-0.55	83.53	29.86	298.94	0	
11/19/06 12:00 PM	11.06	13.89	46.12	46.80	-0.68	76.39	29.86	305.76	0	
11/19/06 1:00 PM	9.87	9.64	46.75	47.26	-0.51	73.87	29.85	161.41	0	0.2
Maximum	14.09		51.85	52.40	-0.03	93.12	29.89	487.39	0.00	4.30
Minimum	1.26		41.91	41.96	-0.76	51.22	29.83	-2.98	0.00	0.10
Average	6.78		46.48	46.78	-0.31	74.49	29.86	123.29	0.00	1.70

Post Dredging/Demobilization Sampling Round (7am November 18 – 1pm November 19, 2006 Hourly Data)

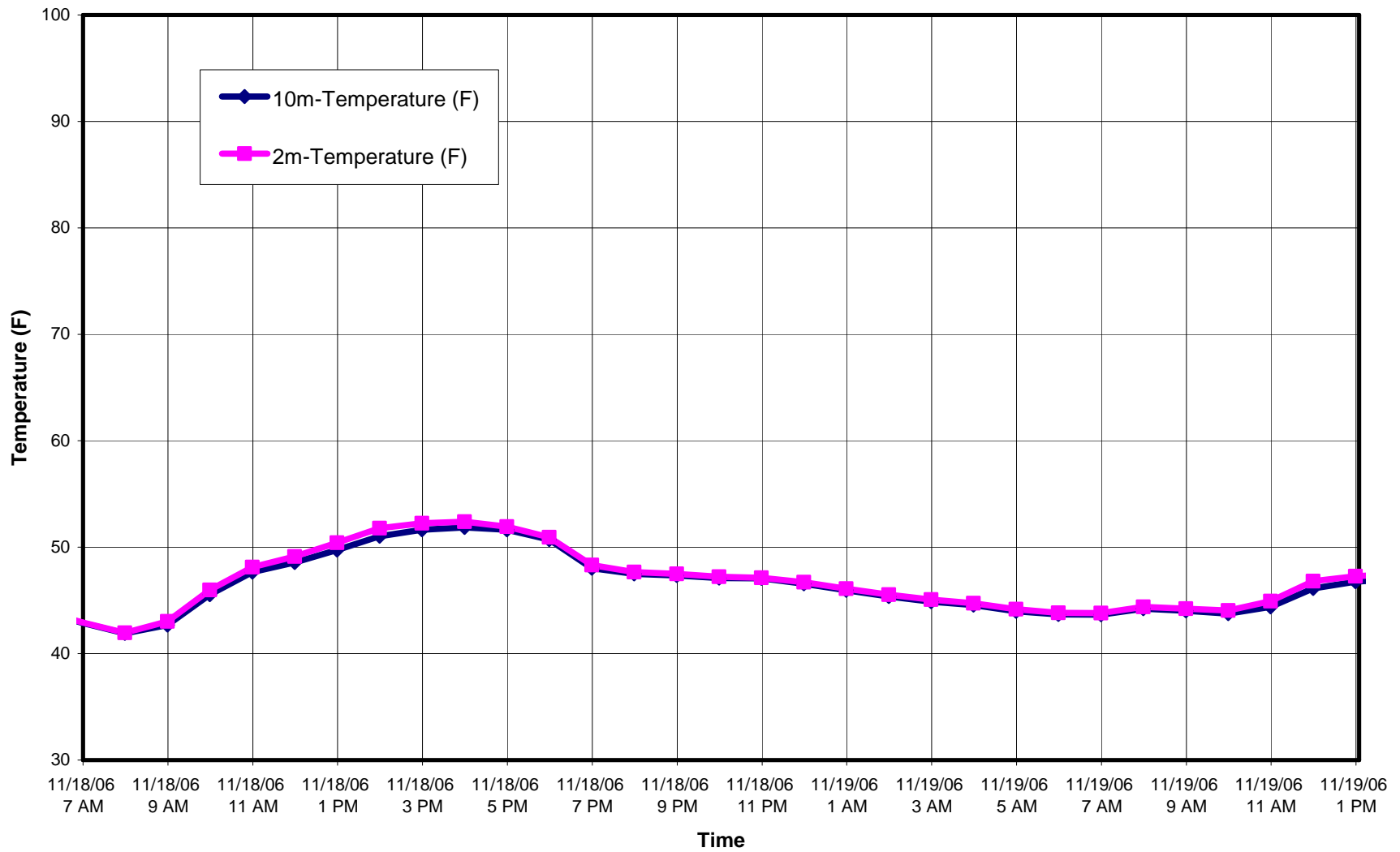
Wind Rose Diagram



1 m/s (meter per second) = 2.237 miles per hour

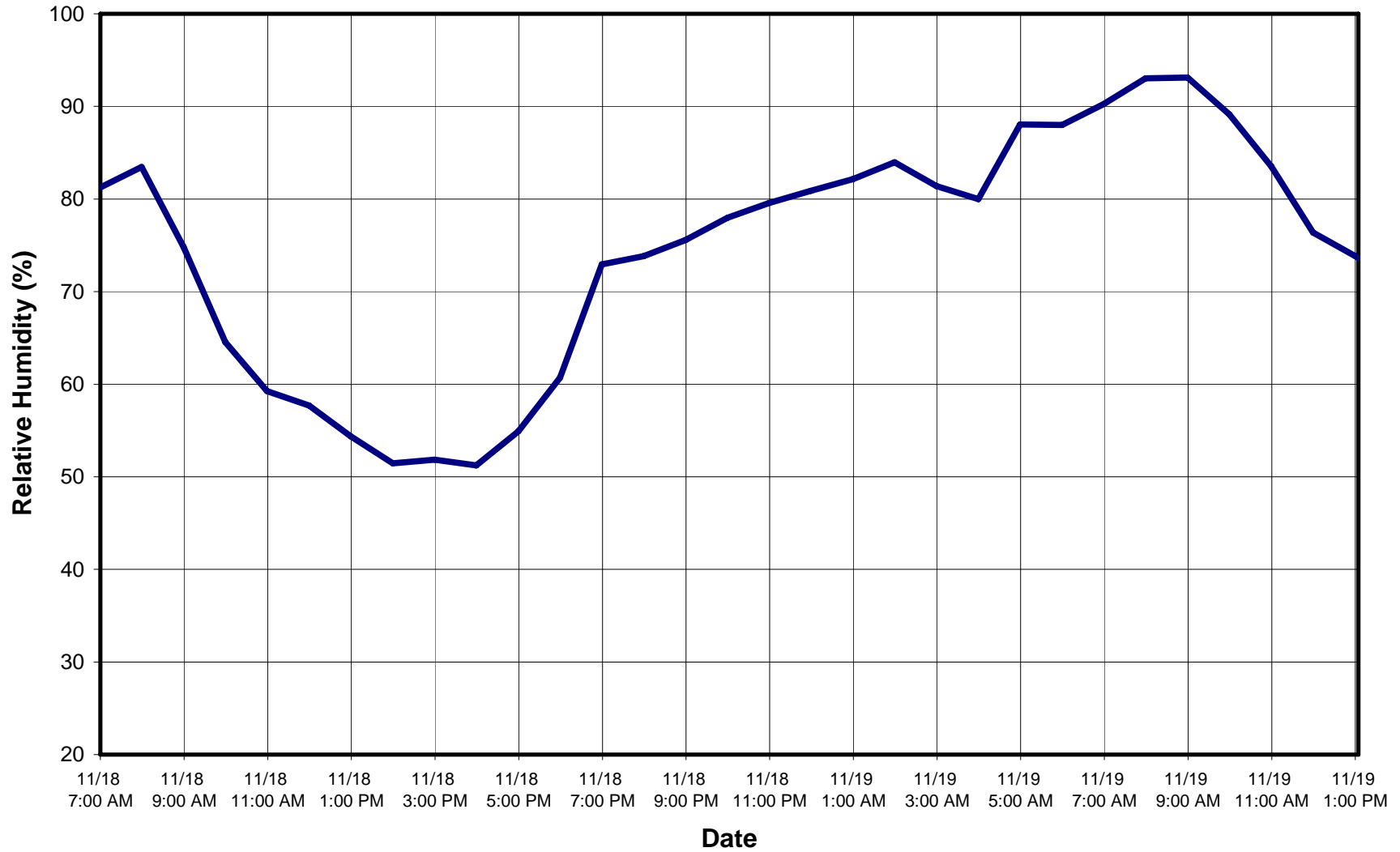
Post Dredging/Demobilization Sampling Round (7am November 18 – 1pm November 19, 2006 Hourly Data)

Temperature



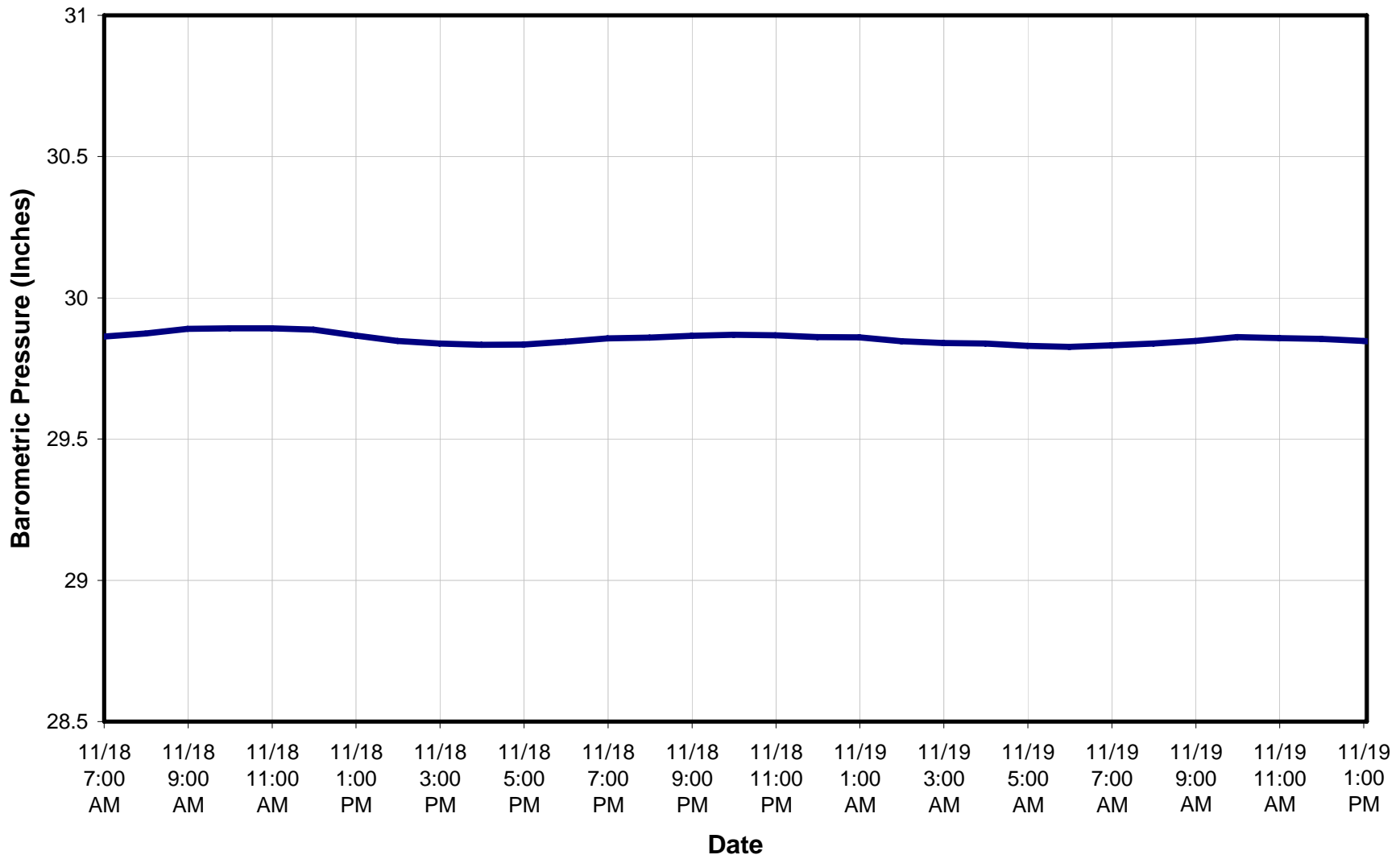
Post Dredging/Demobilization Sampling Round (7am November 18 – 1pm November 19, 2006 Hourly Data)

Relative Humidity



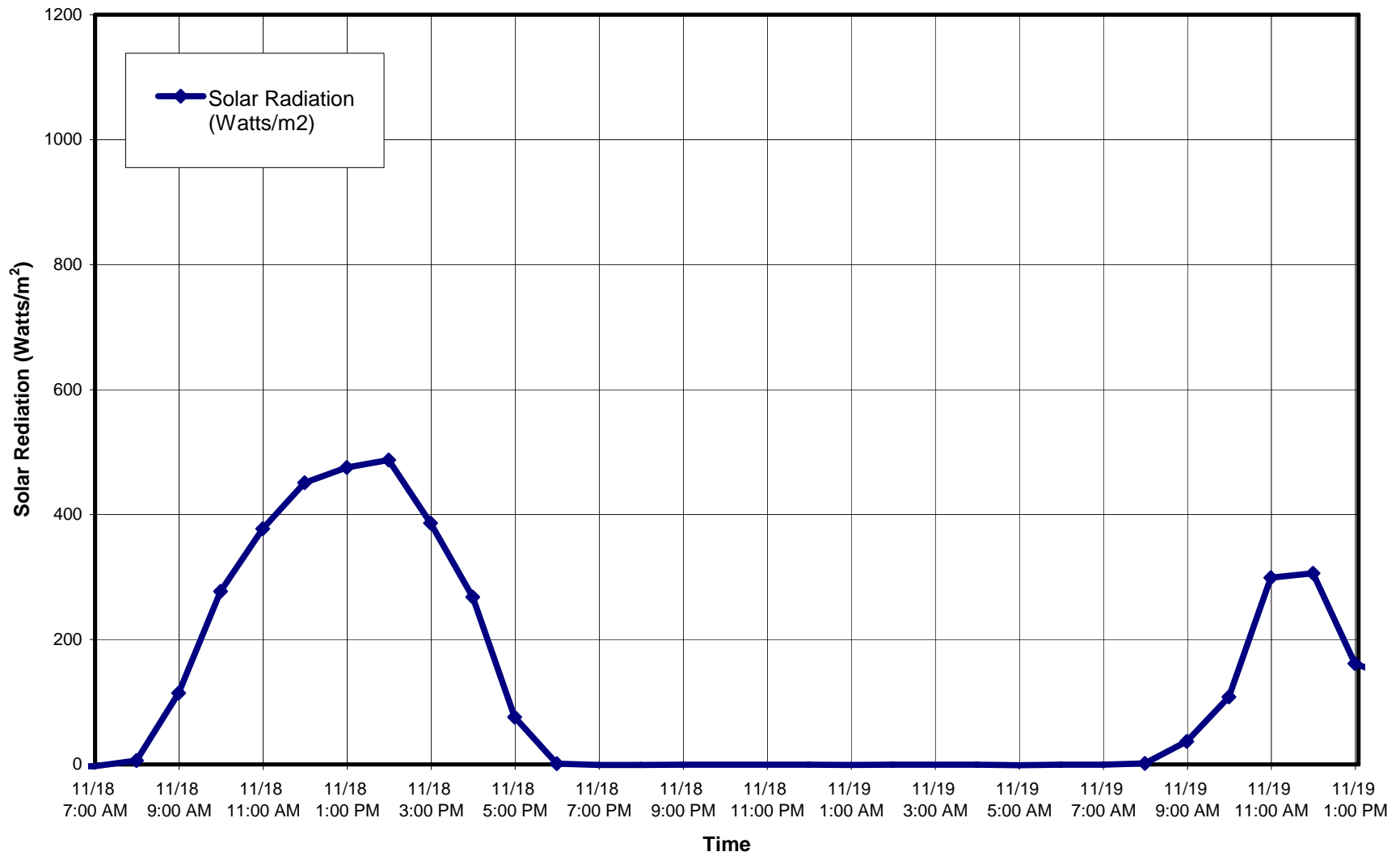
Post Dredging/Demobilization Sampling Round (7am November 18 – 1pm November 19, 2006 Hourly Data)

Barometric Pressure



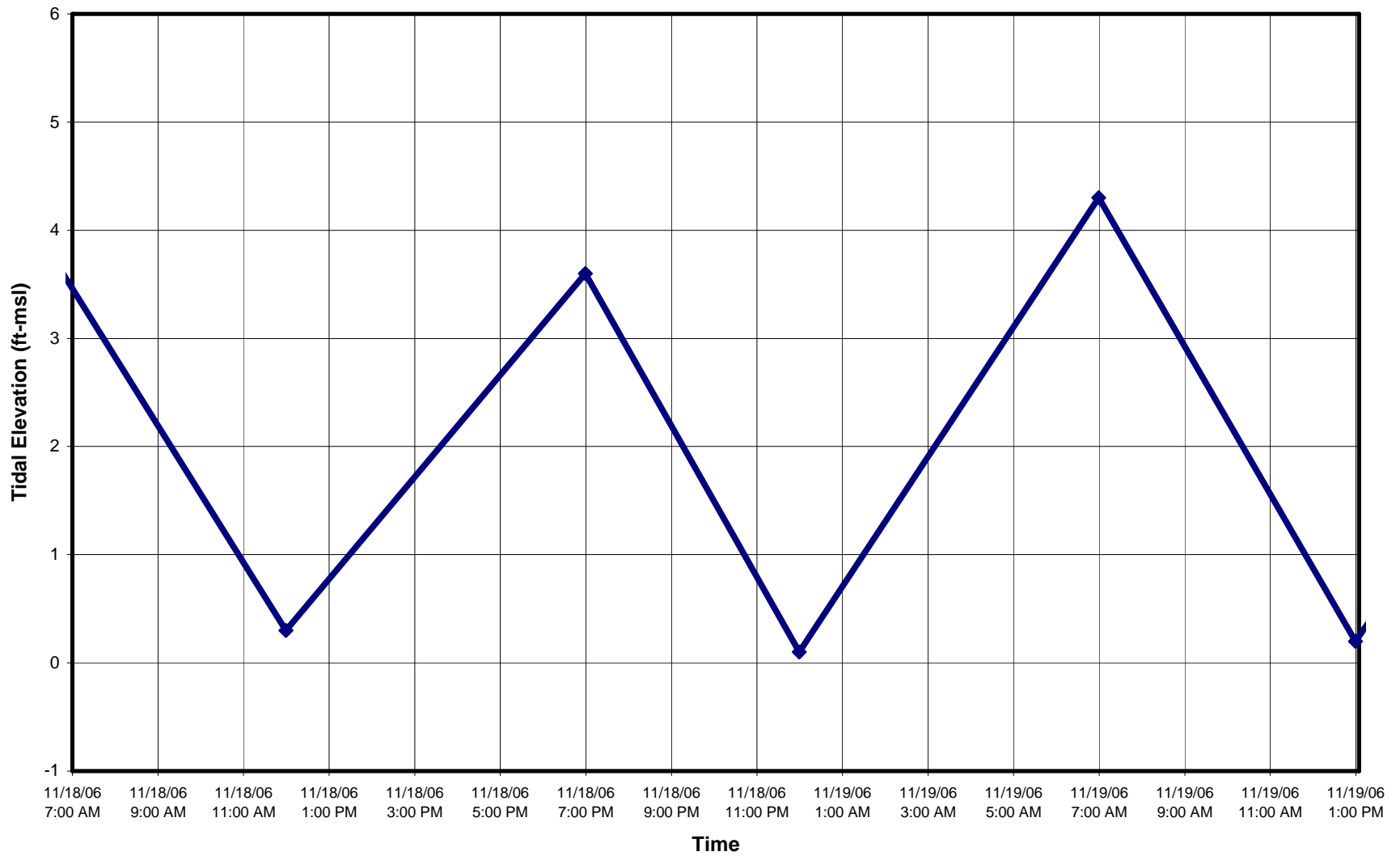
Post Dredging/Demobilization Sampling Round (7am November 18 – 1pm November 19, 2006 Hourly Data)

Solar Radiation



Post Dredging/Demobilization Sampling Round (7am November 18 – 1pm November 19, 2006 Hourly Data)

Tidal (ft)



ATTACHMENT G

Jacobs Solid and Water Balance and PCB Mass Removal Calculations

CBI

CBI

CBI

ATTACHMENT H

Sevenson Operational Monitoring Data

CBI

CBI