



GROWING AREA WW
Owls Head to Cape Jellison
ANNUAL REVIEW for 2008
Report Date: February 3, 2010

Fran Pierce

APPROVAL

Division Director:

_____ Date: _____
Print name signature



TABLE OF CONTENTS

Executive Summary	4
Growing Area Description	4
Current Classification(s).....	4
Activity during Review Period	5
Current Management Plan(s) for Conditional Area(s).....	5
Water Quality Review and Discussion	5
Recommendations for Upward Classification	9
Shoreline Survey Activity	9
Aquaculture/Wet Storage Activity	9
Classification Changes Required and Requested	9
Summary.....	10
Appendix A. Key to Water Quality Table Headers	11
Appendix B. Growing Area WW 2008 Data	12

LIST OF TABLES

Table 1. Geomean and P90 Scores, Growing Area WW, 2003-2008.....	5
Table 2. WW Sampling Effort for 2008	6

LIST OF FIGURES

Figure 1. Growing Area WW, with Active Water Stations	3
Figure 2. Area WW P90 Scores for Approved Stations (expressed as the percent of the approved standard), 2006-2008.....	8
Figure 3. Area WW P90 Scores for Restricted Stations (expressed as the percent of the restricted standard), 2006-2008.....	8



Figure 1. Growing Area WW, with Active Water Stations

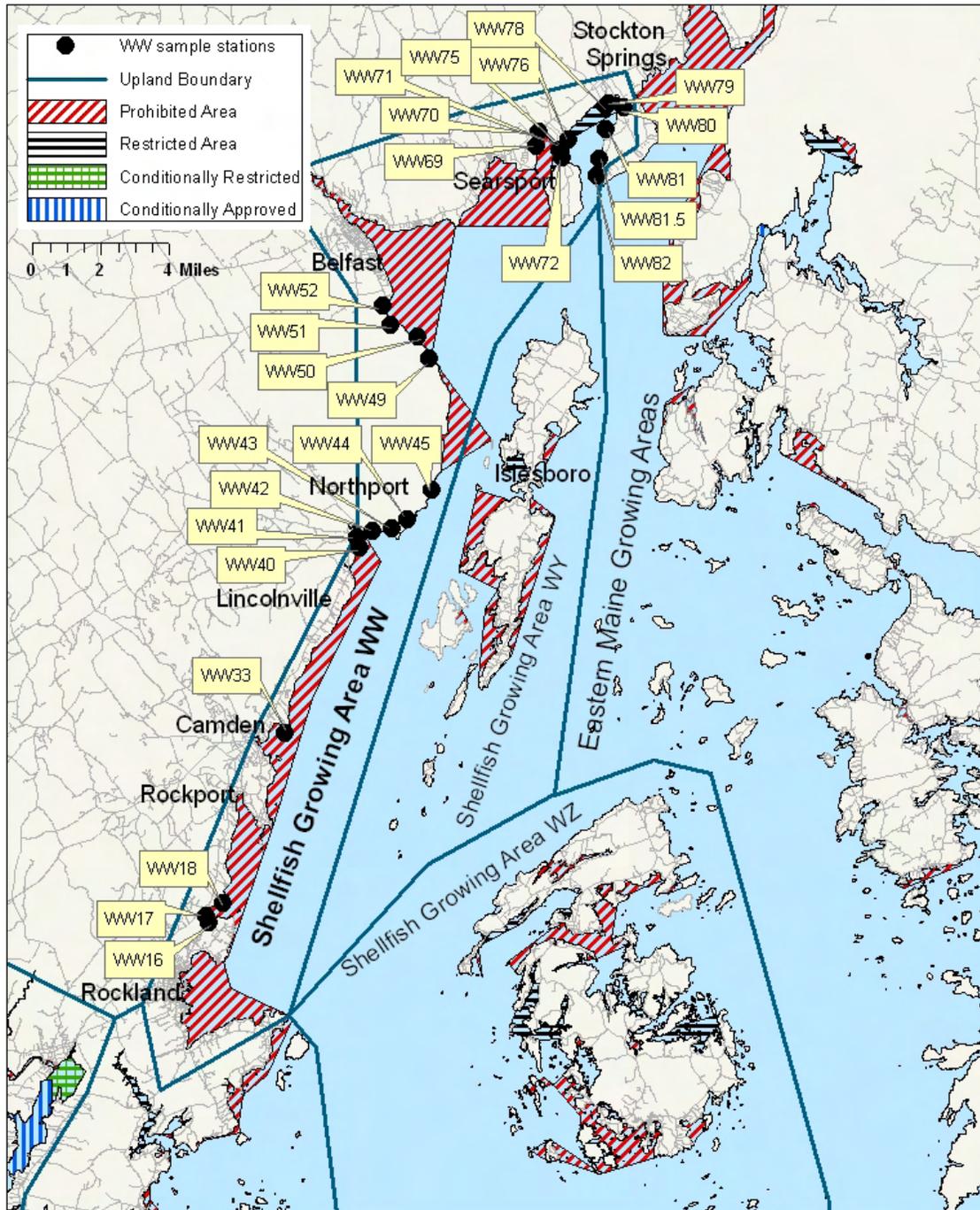


Maine Department of Marine Resources

Shellfish Growing Area WW



2/1/10





Executive Summary

This is an annual report for growing area WW written in compliance with the requirements of the 2007 Model Ordinance and the National Shellfish Sanitation Program.

During the current review period, no stations were deactivated and no new stations were established. There were no major changes in pollution sources during the review period. At the end of 2008, all stations met their NSSP classifications and no classification changes are required at this time.

The next sanitary survey report is due in 2009; the next triennial is due in 2012.

Growing Area Description

Shellfish growing area WW covers portions of the shoreline in the towns of Owls Head, Rockland, Rockport, Camden, Lincolnville, Northport, Belfast, Searsport and Stockton Springs (Figure 1). Shellfish Growing Area WW starts at the tip of Owls Head, at Owls Head Lighthouse and then continues north to the southern tip of Cape Jellison. A detailed description of the upland boundary can be found in central files.

There are only a few areas open for shellfish harvest in this growing area. The towns of Rockland, Rockport, Camden and Belfast have busy harbors with either large mooring areas and/or marina operations; all of these towns have large closures around their harbors with no open shellfish harvesting areas nearby. The towns of Rockland, Camden, Northport, Belfast and Searsport all have municipal treatment facilities. All of these facilities are located in areas with large closure zones around their outfalls. Additionally, the shoreline in shellfish growing area WW contains few coves or mudflat areas and has a rocky and cobbled surface that does not provide a good habitat for soft-shelled clams. There are however, a few small coves in this area that do have suitable habitat for clams, ocean quahogs and mussels. Small pockets of clams can be found in the area from Ducktrap Harbor north to Great Spruce Head in Northport, in Long Cove Searsport, and along both shores of Stockton Harbor. There are several areas that may also be suitable for clams but have been classified as prohibited for shellfish harvest for many years due to poor water quality or known pollution sources in the area. These areas include the northern and southern shores of Rockland Harbor, Clam Cove, Rockport, Sherman Cove, Camden, Lincolnville Beach, Little River, Northport, both shores of the Passagassawakeag River and Searsport Harbor.

Current Classification(s)

At the end of 2008 review year, shellfish growing area WW was classified as:

Approved, 8 stations

- 4 stations in Ducktrap River Watershed (WW 42, 43, 44 and 45)



- 4 stations in Stockton Springs Harbor (WW 75, 81, 81.5 and 82)

Restricted, 6 stations

- Area 33, Searsport (WW 71, 72, 76, 78, 79 and 80) (due to poor water quality)

Prohibited, 12 stations (due to poor water quality)

- Area 31A, Rockport Harbor to Ducktrap River (WW 16, 17, 18, 33, 40 and 41)
- Area 32, Belfast Bay, 6 stations (WW 49, 50, 51, 52, 69, and 70)

Please visit the DMR website to view legal notices:

http://www.maine.gov/dmr/rm/public_health/closures/closedarea.htm#W

Activity during Review Period

There were no changes in classification in growing area WW in 2008.

Current Management Plan(s) for Conditional Area(s)

There are no conditionally managed areas in growing area WW.

Water Quality Review and Discussion

Table 1 lists all active approved, restricted and prohibited stations in Growing Area WW, with their respective Geomean and P90 calculations for 2008. Please refer to Appendix A for a key to interpreting the headers on the columns of Table 1. The approved and restricted standards for each station are also displayed in Table 1. These standards will fluctuate yearly as a result of the DMR transition from a most probable number (MPN) fecal coliform test method to a membrane filtration (MF) method and are dependent on the number of sample analyzed by MPN versus MF. The total number of data points used in the calculations is displayed in the Count column and includes both MPN and MF values. The number of data points analyzed by MF is displayed in the MFCNT column. This fluctuating standard will cease when all 30 data points have been analyzed by the MF method. A more detailed explanation of this transition can be found in central files. All approved and restricted station met their NSSP classification standard in 2008. Several restricted stations now have P90 scores that meet approved standards. These stations include WW 71, 72, 76, 79 and 80. The shoreline around these stations is scheduled to be surveyed in 2009. All of these sites will be reviewed for possible reclassification following the completion of the survey.

Table 1. Geomean and P90 Scores, Growing Area WW, 2003-2008

Station	Class	Count	MFCnt	GM	SDV	MAX	P90	Appd_Std	Restr_Std	Min_Date
WW016.00	P	30	15	20.3	0.76	460	193.4	38	221	3/25/2004
WW017.00	P	30	15	5.7	0.59	150	33.3	38	221	3/25/2004



Station	Class	Count	MFCCount	GM	SDV	MAX	P90	Appd_Std	Restr_Std	Min_Date
WW018.00	P	30	15	3.8	0.47	240	15.2	38	221	3/25/2004
WW033.00	P	30	15	4.1	0.42	70	14.3	38	221	1/7/2004
WW040.00	P	30	15	4.9	0.51	150	22.5	38	221	1/28/2004
WW041.00	P	30	15	7.5	0.66	1100	54	38	221	1/28/2004
WW042.00	A	30	15	4.7	0.44	93	17.4	38	221	1/28/2004
WW043.00	A	30	15	5.2	0.59	240	30.5	38	221	1/28/2004
WW044.00	A	30	15	5	0.5	93	22.3	38	221	1/28/2004
WW045.00	A	30	7	4.5	0.45	43	17.2	44	260	8/28/2002
WW049.00	P	30	14	4.6	0.43	43	16.8	39	225	1/28/2004
WW050.00	P	30	14	10.3	0.81	1200	115	39	225	1/28/2004
WW051.00	P	30	14	13.8	0.81	1100	154	39	225	1/28/2004
WW052.00	P	30	14	9.2	0.56	240	48.4	39	225	1/28/2004
WW069.00	P	30	14	5.3	0.57	93	28.8	39	225	2/10/2004
WW070.00	P	30	15	6.6	0.74	1100	59.4	38	221	2/10/2004
WW071.00	R	30	14	3.8	0.38	43	11.8	39	225	2/10/2004
WW072.00	R	30	14	4.3	0.65	1700	30.4	39	225	2/10/2004
WW075.00	A	30	14	3.7	0.44	93	13.7	39	225	2/10/2004
WW076.00	R	30	14	4.2	0.52	240	19.7	39	225	2/10/2004
WW078.00	R	30	6	17.3	0.78	1200	176.6	44	265	9/3/2002
WW079.00	R	30	15	4.7	0.53	1100	22.9	38	221	2/10/2004
WW080.00	R	30	15	4.7	0.56	1100	25.5	38	221	2/10/2004
WW081.00	A	30	14	3.7	0.4	93	12	39	225	2/10/2004
WW081.50	A	30	14	4.6	0.53	440	22.3	39	225	2/10/2004
WW082.00	A	30	14	6	0.45	84	23	39	225	2/10/2004

All approved and prohibited stations that were active at the beginning of 2008 were sampled 6 times following the systematic random sampling (SRS) schedule (Table 2 and Appendix B). At some stations, additional samples were collected under adverse conditions; stations WW 42, 44 and 82 serve as flood closure reopening stations.

Table 2. WW Sampling Effort for 2008

Station	Class	Adverse	Random		Total	Comments
		Closed	Closed	Open		
WW016.00	P		6		6	
WW017.00	P		6		6	
WW018.00	P		6		6	
WW033.00	P	2	6		8	
WW040.00	P		6		6	
WW041.00	P		6		6	
WW042.00	A	7		6	13	Flood Station
WW043.00	A	2		6	8	
WW044.00	A	7		6	13	Flood Station
WW045.00	A			6	6	



Station	Class	Adverse	Random		Total	Comments
		Closed	Closed	Open		
WW049.00	P		6		6	
WW050.00	P		6		6	
WW051.00	P		6		6	
WW052.00	P		6		6	
WW069.00	P		6		6	
WW070.00	P		6		6	
WW071.00	R			6	6	
WW072.00	R			6	6	
WW075.00	A			6	6	
WW076.00	R			6	6	
WW078.00	R			6	6	
WW079.00	R			6	6	
WW080.00	R			6	6	
WW081.00	A			6	6	
WW081.50	A			6	6	
WW082.00	A	10		6	16	Flood Station

Figures 2 and 3 show the P90 trends for all approved and restricted stations in growing area WW. These trends are expressed as a percentage of the approved or restricted standard for data sets from 2006 to 2008. During the transition from MPN to MF data points, each year the approved standard will be lower than the previous year until all samples have been analyzed by the MF method. In order to show the trend of the P90 value over the years, the calculated P90s are expressed as a percentage of the approved standard. Any station showing the 2008 column on or above the 100 percent line does not meet the standard for its classification. Approved stations WW 43 and 82 have shown a gradual increase in P90 scores (declining water quality) over the past three years; station WW 43 is within 20 percent of the approved standard. A property that abuts the sample site contains a cat boarding business and also has two goats and two horses. The animals are boarded >500 feet from the shore, however waste may be making its way into brooks that flow into the large stream that flows onto the beach at sample station WW 43. This area will be surveyed in 2009 or 2010. The remaining approved stations have shown trends indicating an either no changes or an improvement in water quality. Restricted stations in growing area WW have shown no notable changes in water quality over the past three years; at the end of 2008, all restricted stations were well under the 100 percent of the restricted standard.



Figure 2. Area WW P90 Scores for Approved Stations (expressed as the percent of the approved standard), 2006-2008

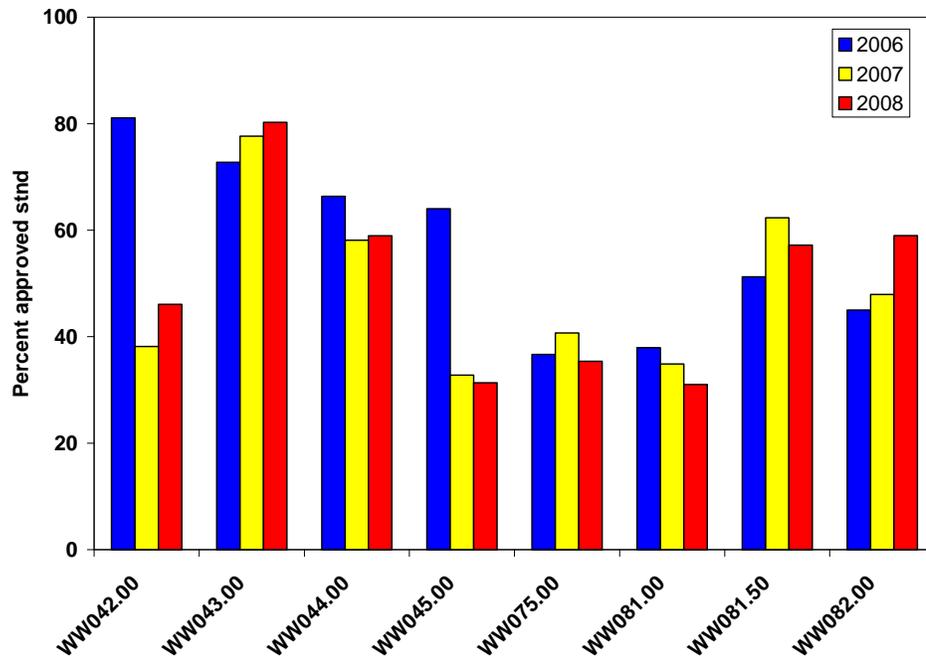
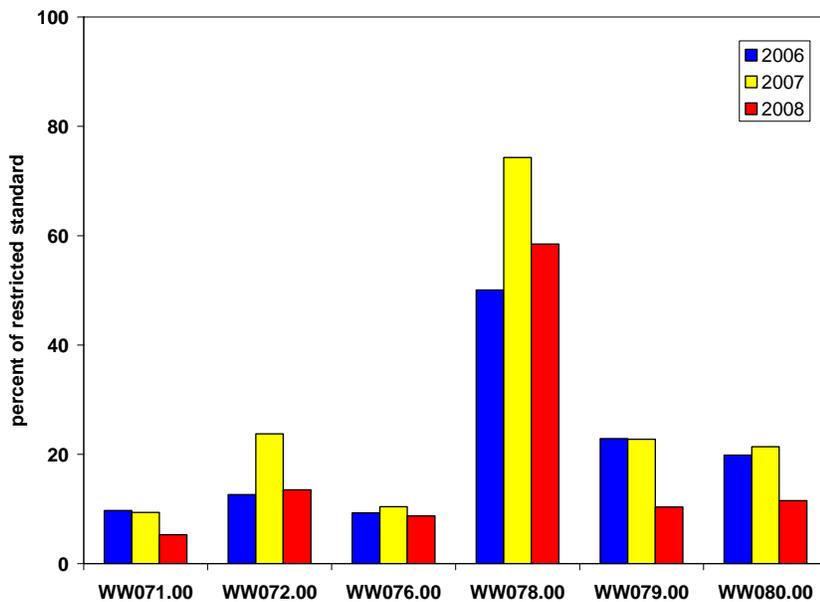


Figure 3. Area WW P90 Scores for Restricted Stations (expressed as the percent of the restricted standard), 2006-2008





Recommendations for Upward Classification

No upward classification changes are proposed at this time.

Shoreline Survey Activity

The towns of Searsport and Stockton Springs have continued to be involved in working on pollution remediation within their communities. Porta pottys have been added to both ends of the Sears Island causeway and signs have been added to educate the public about dog waste. A dog waste receptacle has been placed alongside the fence on the causeway. Both sides of the causeway are now being mowed so dog waste is more visible for clean up. The towns have also had clam seeding done on both sides of the causeway with a good set of clams being reported so far. The area from Long Cove Searsport to Squaw Point, Cape Jellison (Stockton Springs) is scheduled to be surveyed in 2009.

Community members from the town of Rockport requested that survey work be done in the area around Clam Cove to try to determine the source of elevated scores at sample station WW16. Staff members from Department of Environmental Protection and DMR conducted survey work in the area on April 18 and 22, 2008. Properties bordering on Clam Cove and the stream that flows to station WW16 were inspected. Properties inspected included a combination of private dwellings and large commercial businesses with big, paved parking areas (Wal Mart, TJ Max, Shaws). The majority of the properties are connected to the town sewer, and no actual domestic waste pollution sources were identified during the survey. However, pollution impact from stormwater runoff was visible in the brook behind the commercial properties. The brook had solid waste (plastic bags, bottles, etc.) in it and the entire general area behind and alongside Wal Mart and Shaws/TJ Maxx had a significant amount of trash and other waste. The portion of the brook downstream of Wal Mart had been excavated in the past to facilitate drainage, and during the survey, severe erosion and siltation throughout the stream channel was noted. .

Aquaculture/Wet Storage Activity

There is one aquaculture lease site in shellfish growing area WW. The lease site is located approximately 1000 feet off shore in the area off Kellys Cove, Northport. The lease site is for suspended mussel culture from a raft in roughly 50 feet of water. Additional information can be found at the DMR aquaculture website:

<http://www.maine.gov/dmr/aquaculture/leaseinventory2006/index.htm>

There are no wet storage sites in shellfish growing area WW.

Classification Changes Required and Requested

No classification changes are required or requested at this time.



Summary

At the end of 2008, all approved and restricted stations met their NSSP classification standard; no classification changes are required as a result of this report.

Shoreline survey work will be conducted in Searsport and Stockton Springs in 2009. If time permits, survey work will also be done in the Ducktrap/Northport area during 2009 as well.



Appendix A. Key to Water Quality Table Headers

Station = water quality monitoring station

Class = classification assigned to the station; prohibited (P), restricted (R), conditionally restricted (CR), conditionally approved (CA) and approved (A).

Count = the number of samples evaluated for classification, must be a minimum of 30.

MFCNT = the number of samples evaluated with the MTec method (included in the total Count column)

Geo_Mean = means the antilog (base 10) of the arithmetic mean of the sample result logarithm (base 10).

SDV = standard deviation

Max = maximum score of the 30 data points in the count column

P90 = 90th percentile

APPD_STD = the 90th percentile, at or below which the station would meet approved criteria in the absence of pollution sources or poisonous and deleterious substances.

RESTR_STD = the 90th percentile, at or below which the station would meet restricted criteria.



Appendix B. Growing Area WW 2008 Data

Station	Date	Collect	Tide	Temp	Sal	Strat	ADV	Stat	CL	MFCOL	WIND
WW016.00	01/23/08	EXT	E	-1	31	R	-	C	P	4	CL
	03/17/08	LL	E	1	20	R	-	C	P	<2.0	N
	05/19/08	EXT	E	7	30	R	-	C	P	<2.0	S
	07/14/08	FP	LE	16	30	R	-	C	P	<2.0	SW
	09/02/08	LL	HE	18	30	R	-	C	P	4	NE
	10/28/08	FP	H	8	28	R	-	C	P	32	CL
WW017.00	01/23/08	EXT	E	-1	31	R	-	C	P	<2.0	CL
	03/17/08	LL	E	1	24	R	-	C	P	<2.0	N
	05/19/08	EXT	E	8	30	R	-	C	P	<2.0	S
	07/14/08	FP	LE	15	30	R	-	C	P	<2.0	SW
	09/02/08	LL	HE	17	30	R	-	C	P	<2.0	NE
	10/28/08	FP	H	8	29	R	-	C	P	16	E
WW018.00	01/23/08	EXT	E	-1	32	R	-	C	P	<2.0	CL
	03/17/08	LL	E	1	24	R	-	C	P	<2.0	NW
	05/19/08	EXT	E	7	30	R	-	C	P	<2.0	S
	07/14/08	FP	LE	13	30	R	-	C	P	<2.0	SW
	09/02/08	LL	HE	17	30	R	-	C	P	<2.0	NE
	10/28/08	FP	H	8	30	R	-	C	P	<2.0	E
WW033.00	01/23/08	FP	F	1	32	R	-	C	P	3.6	-
	03/19/08	EXT	HF	1	27	R	-	C	P	52	CL
	05/20/08	LL	F	8	30	R	-	C	P	<2.0	CL
	07/15/08	MLP	HF	17	28	R	-	C	P	18	NE
	09/03/08	EXT	F	16	30	R	-	C	P	<2.0	NE
	10/28/08	EXT	HF	10	30	R	-	C	P	<2.0	NE
WW040.00	01/23/08	FP	F	1	30	R	W	C	P	<2.0	-
	03/19/08	EXT	HF	1	28	R	-	C	P	<2.0	CL
	05/20/08	LL	F	8	28	R	-	C	P	<2.0	CL
	07/15/08	MLP	H	17	27	R	-	C	P	<2.0	CL
	09/03/08	EXT	F	15	30	R	-	C	P	<2.0	NE
	10/28/08	EXT	HF	10	20	R	-	C	P	16	NE
WW041.00	01/23/08	FP	F	1	28	R	-	C	P	<2.0	-
	03/19/08	EXT	HF	1	28	R	-	C	P	<2.0	CL
	05/20/08	LL	F	8	28	R	-	C	P	<2.0	CL
	07/15/08	MLP	H	17	27	R	-	C	P	<2.0	CL
	09/03/08	EXT	F	15	30	R	-	C	P	<2.0	CL
	10/28/08	EXT	HF	11	22	R	-	C	P	16	E
WW042.00	01/23/08	FP	F	2	30	R	W	O	A	4	NW
	03/19/08	EXT	H	1	28	R	-	O	A	<2.0	CL
	05/20/08	LL	F	8	28	R	-	O	A	<2.0	SW
	07/15/08	MLP	H	18	26	R	-	O	A	12	CL
	09/03/08	EXT	F	14	30	R	-	O	A	2	CL



Station	Date	Collect	Tide	Temp	Sal	Strat	ADV	Stat	CL	MFCOL	WIND
	10/28/08	EXT	HF	9	30	R	-	O	A	<2.0	E
WW043.00	01/23/08	FP	F	2	30	R	W	O	A	<2.0	CL
	03/19/08	EXT	H	1	28	R	-	O	A	<2.0	CL
	05/20/08	LL	F	8	26	R	-	O	A	<2.0	SW
	07/15/08	MLP	H	17	26	R	-	O	A	<2.0	CL
	09/03/08	EXT	F	15	30	R	-	O	A	<2.0	CL
	10/28/08	EXT	H	10	30	R	-	O	A	13	E
WW044.00	01/23/08	FP	F	2	30	R	W	O	A	<2.0	CL
	03/19/08	EXT	H	1	25	R	-	O	A	<2.0	CL
	05/20/08	LL	F	8	26	R	-	O	A	<2.0	CL
	07/15/08	MLP	H	21	26	R	-	O	A	6	CL
	09/03/08	EXT	F	15	30	R	-	O	A	<2.0	CL
	10/28/08	EXT	H	11	26	R	-	O	A	6	CL
WW045.00	01/23/08	FP	HF	0	30	R	-	O	A	<2.0	CL
	03/19/08	EXT	H	1	27	R	-	O	A	<2.0	CL
	05/20/08	LL	HF	8	26	R	-	O	A	<2.0	CL
	07/15/08	MLP	HE	19	26	R	-	O	A	<2.0	NE
	09/03/08	EXT	F	15	30	R	-	O	A	<2.0	NE
	10/28/08	EXT	H	11	28	R	-	O	A	<2.0	CL
WW049.00	01/23/08	FP	HF	1	26	R	-	C	P	<2.0	CL
	03/19/08	EXT	H	1	24	R	-	C	P	<2.0	CL
	05/20/08	LL	HF	9	26	R	-	C	P	<2.0	CL
	07/15/08	MLP	HE	20	24	R	-	C	P	8	NE
	09/03/08	EXT	F	18	30	R	-	C	P	<2.0	CL
	10/28/08	EXT	H	11	25	R	-	C	P	4	E
WW050.00	01/23/08	FP	HF	1	30	R	-	C	P	<2.0	CL
	03/19/08	EXT	H	1	22	R	-	C	P	<2.0	SE
	05/20/08	LL	HF	9	26	R	-	C	P	<2.0	CL
	07/15/08	MLP	HE	22	25	R	-	C	P	2	NE
	09/03/08	EXT	F	16	30	R	-	C	P	2	CL
	10/28/08	EXT	H	11	26	R	-	C	P	220	S
WW051.00	01/23/08	FP	HF	1	30	R	-	C	P	4	CL
	03/19/08	EXT	HE	1	14	R	W	C	P	100	CL
	05/20/08	LL	HF	9	26	R	-	C	P	<2.0	CL
	07/15/08	MLP	HE	22	25	R	-	C	P	11	CL
	09/03/08	EXT	F	18	30	R	-	C	P	<2.0	CL
	10/28/08	EXT	H	11	14	R	-	C	P	25	S
WW052.00	01/23/08	FP	HF	3	30	R	W	C	P	<2.0	CL
	03/19/08	EXT	HE	2	19	R	-	C	P	<2.0	SE
	05/20/08	LL	HF	9	25	R	-	C	P	<2.0	CL
	07/15/08	MLP	HE	20	24	R	-	C	P	<2.0	CL
	09/03/08	EXT	F	18	28	R	-	C	P	13	CL
	10/28/08	EXT	HE	11	13	R	-	C	P	38	CL
WW069.00	01/23/08	FP	H	1	26	R	-	C	P	<2.0	CL



Station	Date	Collect	Tide	Temp	Sal	Strat	ADV	Stat	CL	MFCOL	WIND
	03/19/08	EXT	HE	1	23	R	-	C	P	2	SE
	05/20/08	LL	H	10	22	R	-	C	P	<2.0	CL
	07/15/08	MLP	E	22	24	R	-	C	P	<2.0	SE
	09/03/08	EXT	F	18	30	R	-	C	P	<2.0	NE
	10/28/08	EXT	HE	11	26	R	-	C	P	12	S
WW070.00	01/23/08	FP	H	0	27	R	W	C	P	<2.0	N
	03/19/08	EXT	HE	1	10	R	-	C	P	<2.0	SE
	05/20/08	LL	H	11	20	R	W	C	P	<2.0	SW
	07/15/08	MLP	E	23	24	R	-	C	P	<2.0	SE
	09/03/08	EXT	F	16	29	R	-	C	P	<2.0	CL
	10/28/08	EXT	HE	11	28	R	-	C	P	4	S
WW071.00	01/23/08	FP	H	-2	25	R	-	O	R	<2.0	NW
	03/19/08	EXT	HE	1	25	R	-	O	R	<2.0	CL
	05/20/08	LL	H	11	20	R	-	O	R	4	SW
	07/15/08	MLP	E	23	24	R	-	O	R	<2.0	SE
	09/03/08	EXT	HF	17	30	R	-	O	R	4	CL
	10/28/08	EXT	HE	10	28	R	-	O	R	<2.0	S
WW072.00	01/23/08	FP	H	-2	25	R	-	O	R	2	NW
	03/19/08	EXT	HE	1	24	R	-	O	R	<2.0	CL
	05/20/08	LL	H	11	22	R	-	O	R	<2.0	SW
	07/15/08	MLP	E	22	24	R	-	O	R	<2.0	CL
	09/03/08	EXT	HF	17	30	R	-	O	R	<2.0	CL
	10/28/08	EXT	HE	10	28	R	-	O	R	<2.0	SW
WW075.00	01/23/08	FP	H	2	26	R	-	O	A	<2.0	CL
	03/19/08	EXT	E	1	23	R	-	O	A	<2.0	SE
	05/20/08	LL	H	10	22	R	-	O	A	<2.0	S
	07/15/08	MLP	E	21	24	R	-	O	A	<2.0	SE
	09/03/08	EXT	HF	17	29	R	-	O	A	<2.0	NE
	10/28/08	EXT	E	11	26	R	-	O	A	<2.0	SW
WW076.00	01/23/08	FP	HE	2	26	R	-	O	R	<2.0	CL
	03/19/08	EXT	E	2	24	R	-	O	R	<2.0	SE
	05/20/08	LL	H	11	22	R	-	O	R	<2.0	SW
	07/15/08	MLP	E	22	24	R	-	O	R	2	SE
	09/03/08	EXT	HF	16	29	R	W	O	R	<2.0	NE
	10/28/08	EXT	E	11	26	R	-	O	R	<2.0	SW
WW078.00	01/23/08	FP	HE	0	22	R	W	O	R	4	NW
	03/19/08	EXT	E	2	22	R	-	O	R	<2.0	SE
	05/20/08	LL	HE	13	20	R	-	O	R	2	SW
	07/15/08	MLP	E	23	24	R	-	O	R	8	SE
	09/03/08	EXT	HF	18	30	R	-	O	R	<2.0	CL
	10/28/08	EXT	E	12	26	R	-	O	R	8	S
WW079.00	01/23/08	FP	HE	1	25	R	-	O	R	<2.0	CL
	03/19/08	EXT	E	2	22	R	-	O	R	4	SE
	05/20/08	LL	HE	12	20	R	-	O	R	<2.0	SW



Station	Date	Collect	Tide	Temp	Sal	Strat	ADV	Stat	CL	MFCOL	WIND
	07/15/08	MLP	E	22	24	R	-	O	R	<2.0	SE
	09/03/08	EXT	H	16	29	R	-	O	R	4	NE
	10/28/08	EXT	E	11	28	R	-	O	R	2	SW
WW080.00	01/23/08	FP	HE	-2	25	R	-	O	R	4	NW
	03/19/08	EXT	E	1	23	R	-	O	R	4	CL
	05/20/08	LL	HE	12	20	R	-	O	R	<2.0	SW
	07/15/08	MLP	E	22	24	R	-	O	R	<2.0	CL
	09/03/08	EXT	H	15	28	R	-	O	R	<2.0	CL
	10/28/08	EXT	E	11	28	R	-	O	R	<2.0	W
WW081.00	01/23/08	FP	E	0	25	R	-	O	A	<2.0	NW
	03/19/08	EXT	E	1	24	R	-	O	A	<2.0	SE
	05/20/08	LL	HE	12	20	R	-	O	A	2	SW
	07/15/08	MLP	E	20	24	R	-	O	A	6	SE
	09/03/08	EXT	H	16	29	R	-	O	A	<2.0	CL
	10/28/08	EXT	E	11	26	R	-	O	A	<2.0	CL
WW081.50	01/23/08	FP	E	0	22	R	-	O	A	<2.0	W
	03/19/08	EXT	E	1	22	R	-	O	A	4	SE
	05/20/08	LL	HE	12	20	R	-	O	A	<2.0	SW
	07/15/08	MLP	E	21	24	R	-	O	A	<2.0	SE
	09/03/08	EXT	H	15	28	R	-	O	A	<2.0	CL
	10/28/08	EXT	E	11	25	R	-	O	A	2	SW
WW082.00	01/23/08	FP	E	2	28	R	-	O	A	<2.0	W
	03/19/08	EXT	E	1	22	R	-	O	A	20	SE
	05/20/08	LL	HE	11	22	R	-	O	A	2	SW
	07/15/08	MLP	E	21	24	R	-	O	A	23	SE
	09/03/08	EXT	H	16	29	R	-	O	A	<2.0	CL
	10/28/08	EXT	E		26	R	-	O	A	14	-