



**GROWING AREA EU**  
**St. Croix River; Eastport to Calais**  
**ANNUAL REVIEW for 2009**  
**Report Date: September 1, 2010**

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**APPROVAL**

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Figure 1. Growing Area EU North, with Active Water Stations

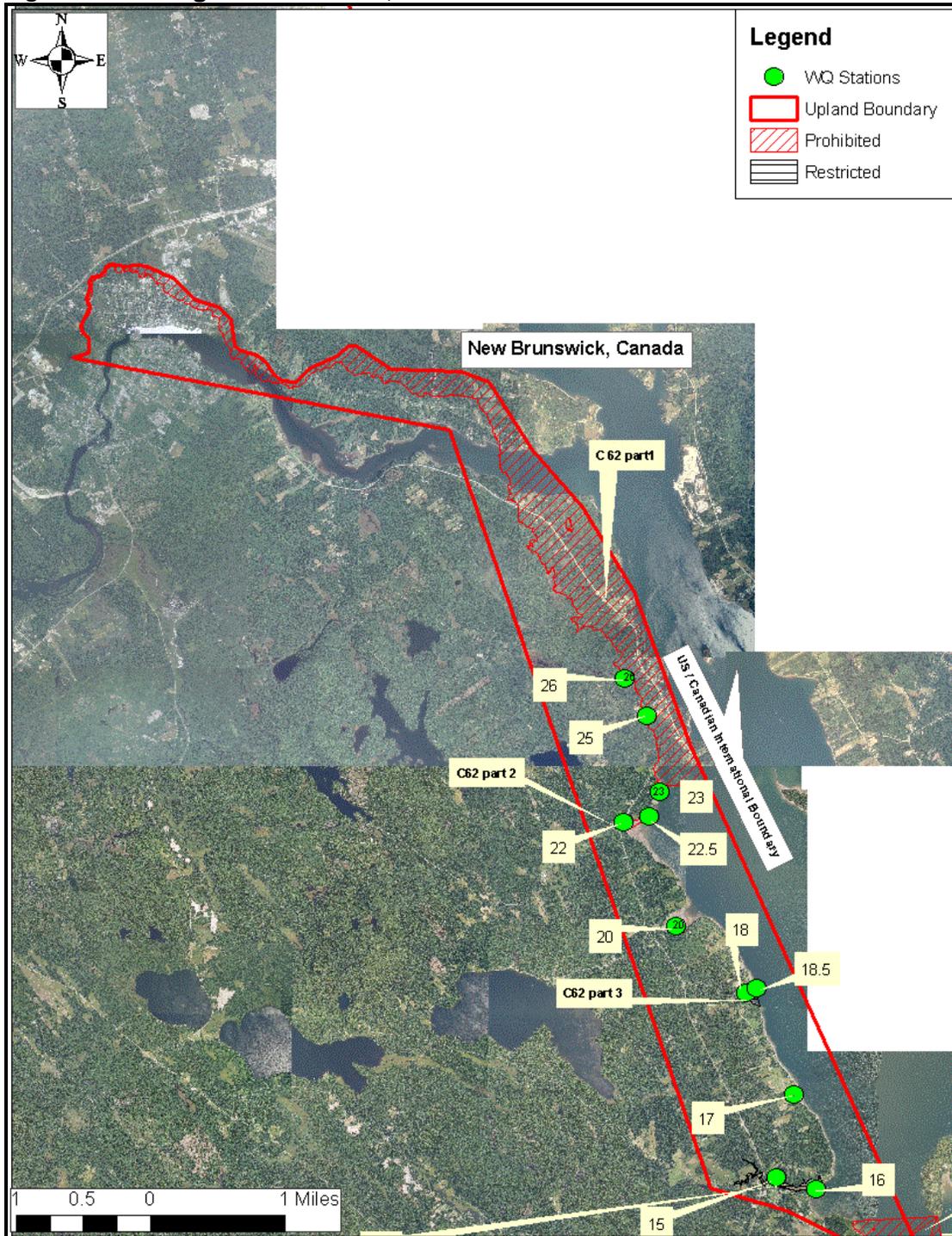
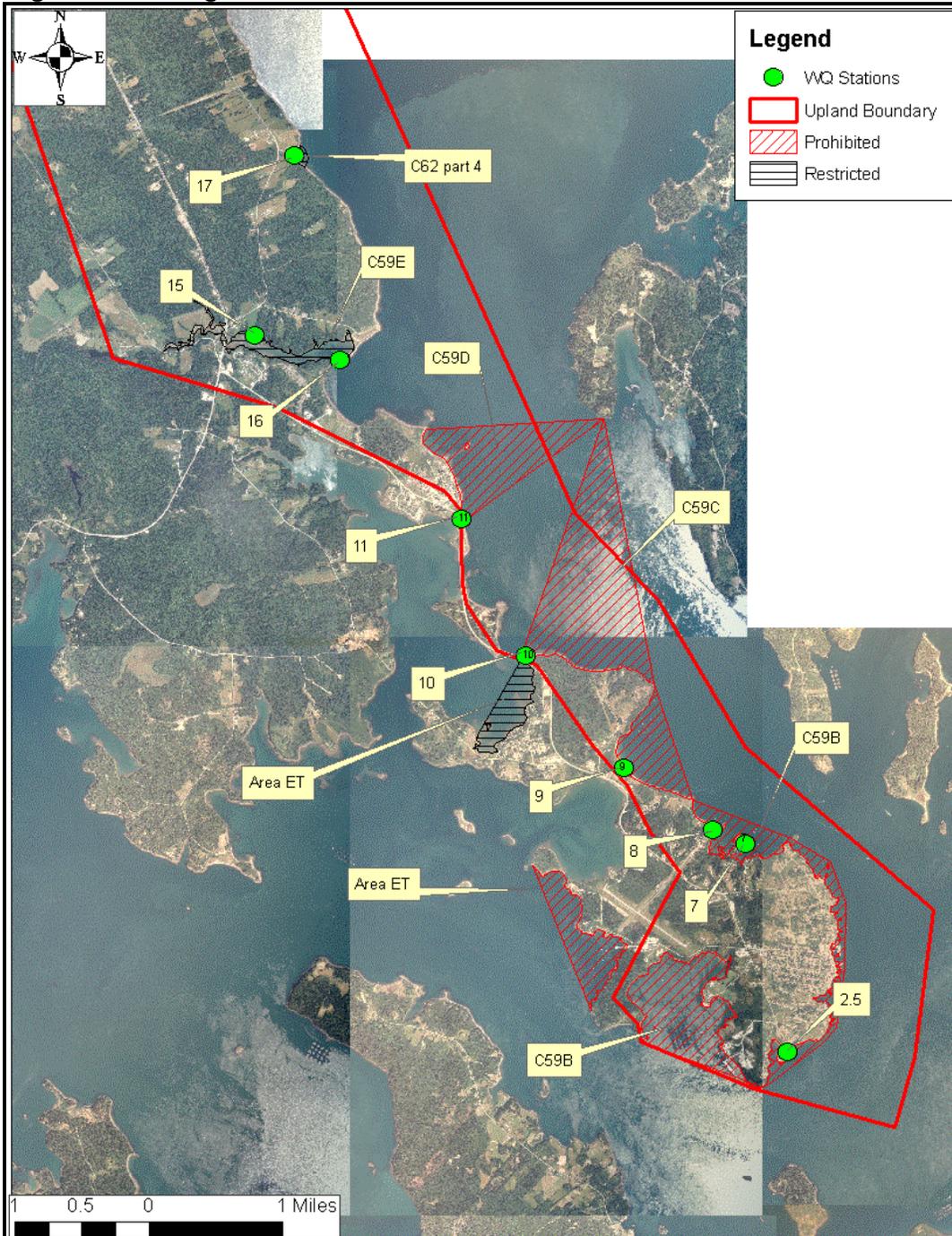




Figure 2. Growing Area EU South





## Executive Summary

This is an annual report for growing area EU written in compliance with the requirements of the 2007 Model Ordinance and the National Shellfish Sanitation Program. The next shoreline survey for this area is due in 2010.

During the 2009 review year four stations EU 28, EU 27, EU 1 and EU 2 were deactivated based on the fact they are located in the waste water treatment plant (WWTP) prohibited zones. There were no licensed overboard discharges (OBDs) removed during the review period. There are no conditionally managed areas and there is one downward classification change that occurred in Lewis Cove on March 10, 2010, due to failing water quality at station EU 20.

## Growing Area Description

The growing area is bounded on the east by the US/Canadian border, on the north by the Calais – St. Stephens Bridge, the west by US Route 1 and on the south by Shackford Head. The St. Croix River represents a significant fresh water source with a watershed of approximately 1631 square miles (USGS, Drainage areas Eastern Maine. 1982). In Washington County, growing area EU includes shores in the towns of Calais, Robbinston, Perry, and Eastport. The tides in down east Maine average 20' and tidal currents can reach speeds of 3+ knots.

There are 5 wastewater treatment facilities in this area, 4 OBD's and 6 other licensed process water discharges. The growing area consists of two prohibited areas and three restricted areas. All random stations were sampled 6 times during this review period

There are four finfish aquaculture sites in this growing area. They are all located in and around the Eastport area. All four are pen culture sites for finfish with salmon being the main species raised. There are no wet storage sites in this growing area.

## Current Classification(s)

Shellfish growing area EU currently has areas classified as:

**Approved:** 5 stations; EU 16, 18.5, 20, 22.5, and 23

**Restricted:** Area No. 59 part E Little River, Perry; 1 station EU 15  
Area No. 62 part 3 Loring Cove, Perry; 1 station EU 18;  
Area No. 62 part 4, Frost Cove, Perry; 1 station EU 17

**Prohibited:** Area No. 59 (B, C, D), Outer Cobscook Bay (Eastport and Perry); 6 stations EU 2.5, 7, 8, 9, 10 and 11; and Area No. 62 parts 1 and 2, St. Croix River Calais, Robbinston and Mill Cove; 3 stations EU 26, 25 and 22



Please visit the DMR website to view legal notices:

[http://www.maine.gov/dmr/rm/public\\_health/closures/closedarea.htm#EU](http://www.maine.gov/dmr/rm/public_health/closures/closedarea.htm#EU)

### Activity during Review Period

On March 10, 2010 Pollution Area No. 62 part E Lewis Cove was amended to reclassify Lewis Cove from approved to prohibited based on water quality exceeding approved standards. After the sanitary survey of this area in 2010 a determination will be made as to whether it will be classified as seasonal or restricted.

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

There are no conditional areas in growing area EU.

### Water Quality Review and Discussion

Table 1 lists all active approved, restricted and prohibited stations in Growing Area EU, with their respective Geomean and P90 calculations for 2009. 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 verses 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 stations, except station EU 20 (highlighted in yellow), met their Nssp classification standard in 2009. Station EU 20 must be downgraded in its classification. Station EU 17 highlighted in green, which is currently classified as restricted, now meets the approved standard. As this area is due for a sanitary survey in 2010 and is of a low resource priority, any upward change in classification will be made after the results of the sanitary survey.

**Table 1. Geomean and P90 Scores, Growing Area EU, 2005-2009**

Station	Class	Count	MFCOUNT	GM	SDV	MAX	P90	Appd_Std	Restr_Std
EU002.50	P	30	21	4.8	0.61	560	30	35	195
EU007.00	P	30	21	2.6	0.27	24	5.9	35	195
EU008.00	P	30	21	2.5	0.2	16	4.6	35	195



Station	Class	Count	MFCOUNT	GM	SDV	MAX	P90	Appd_Std	Restr_Std
EU009.00	P	30	21	3.7	0.47	102	15.5	35	195
EU010.00	P	30	21	3.4	0.52	700	16.2	35	195
EU011.00	P	30	21	2.8	0.26	16	6.3	35	195
EU015.00	R	30	21	10.4	0.8	>1600	110.2	35	195
EU016.00	A	30	22	3.6	0.5	260	16	35	191
EU017.00	R	30	21	4.1	0.52	150	19.2	35	195
EU018.00	R	30	21	7.8	0.79	>1600	80.8	35	195
EU018.50	A	30	21	4.3	0.59	1600	24.9	35	195
EU020.00	A	30	23	5.8	0.72	1100	49.7	34	187
EU022.00	P	30	21	5.9	0.59	500	34.9	35	192
EU022.50	new	27	22	3.3	0.36	23	9.9	33	182
EU023.00	A	30	21	3.1	0.35	39	8.8	35	195
EU025.00	P	30	19	3.1	0.33	43	8.3	36	203
EU026.00	P	30	12	4.4	0.56	240	23.9	40	235

All approved and prohibited stations that were active at the beginning of 2009 were sampled at least 6 times following the systematic random sampling (SRS) schedule (Table 2 and Appendix E). At some stations, additional samples were collected under adverse conditions.

**Table 2. 2009 Sample Count**

Station	Class	Status	Adverse	Extra	Random	Sample total	COMMENTS
EU001.00	P	C			2	2	De-activated; embedded in prohibited area; 4-09
EU002.00	P	C			2	2	De-activated; embedded in prohibited area; 4-09
EU002.50	P	C			6	6	
EU007.00	P	C			6	6	
EU008.00	P	C			6	6	
EU009.00	P	C			6	6	
EU010.00	P	C			6	6	
EU011.00	P	C			6	6	
EU015.00	R	O			6	6	
EU016.00	A	C	13			19	13 flood samples
	A	O			6		
EU017.00	R	O			6	6	
EU018.00	R	O			6	6	
EU018.50	A	O			6	6	
EU020.00	A	C	11			19	11 flood samples and 2 extra samples
	A	O		2			
	A	O			6		
EU022.00	P	C			6	6	
EU022.50	A	O			6	6	
EU023.00	A	O			6	6	
EU025.00	P	C			6	6	



Station	Class	Status	Adverse	Extra	Random	Sample total	COMMENTS
EU026.00	P	C			6	6	
EU027.00	P	C			2	2	De-activated; embedded in prohibited area; 4-09
EU028.00	P	C			2	2	De-activated; embedded in prohibited area; 4-09

Figure 3 below shows all approved stations in area EU with their three year P90 trend expressed as a percentage of the standard for approved classification. As indicated below, station EU 20 now exceeds this standard and was reclassified to prohibited on March 10, 2010. This area is due for a complete 12 year sanitary survey in 2010 and will be reevaluated to see if Lewis Cove (EU 20) may be reclassified to restricted or qualifies for a seasonal conditionally approved classification based on the data analysis and results of the shoreline survey. Station EU 18.5 has shown a marked increase in 2009 but is still well below the standard for approved classification. The reason for this increase is unknown. All other stations have remained consistent.

**Figure 3. Area EU P90 Scores for Approved Stations (expressed as the percent of the approved standard), 2007-2009**

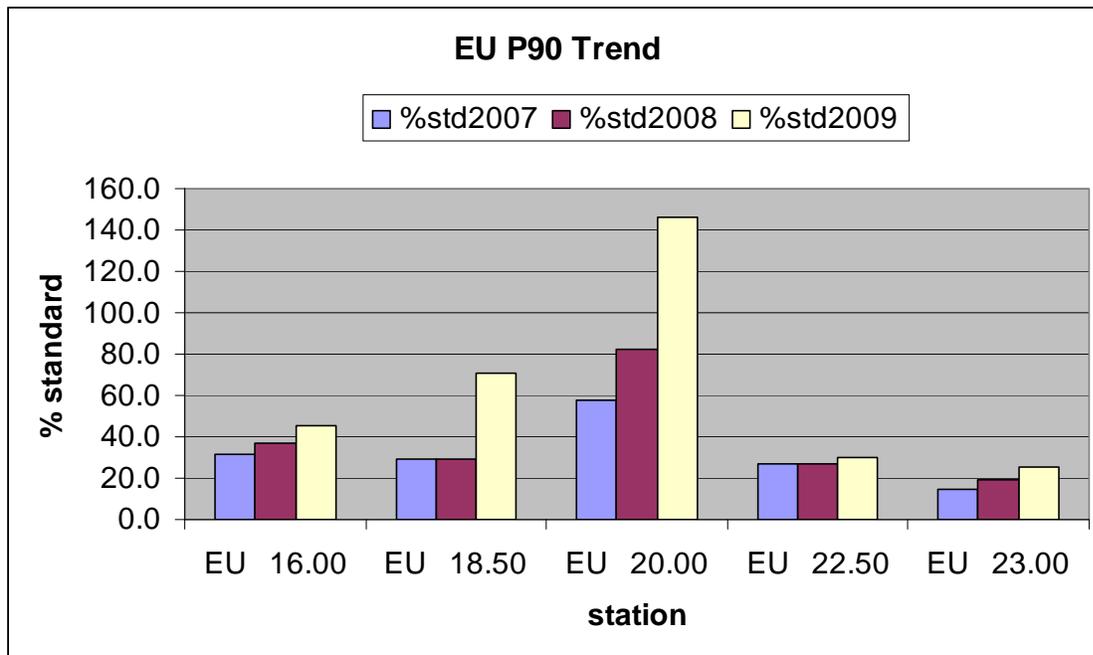
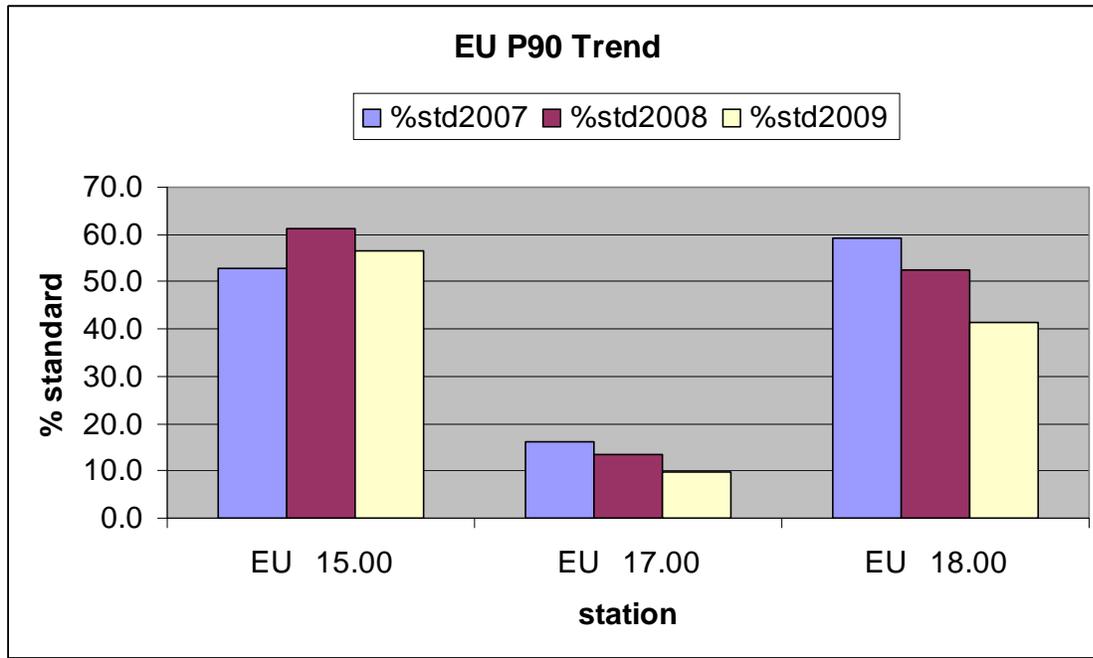


Figure 4 shows the three year P90 trend for all restricted stations in area EU. Station EU 17 has trended downwards for the last three years and now meets the standard for approved classification. If the sanitary survey of this area in 2010 locates no point sources of pollution and the trend holds true for the 2010 sampling season then this area will be recommended for an upward classification change to approved. All other stations meet the standard for restricted classification.



Figure 4. Area EU P90 Scores for Restricted Stations (expressed as the percent of the restricted standard), 2007-2009



### Recommendations for Upward Classification

None requested at this time.

### Shoreline Survey Activity

A drive through survey was conducted on July 30, 2009. In Eastport there was roadside ditch and drainage work taking place in front of the WWTP. No changes were noted at the pump stations or the outfall. Seaview RV Park was full and signs were in place requesting people clean up after their pets. No RV's discharging to the ground were observed. A new horse pasture on the Shore Rd across from the field used to access EU 15 was seen to have two horses. This pasture is located > 1000' from the shores of the Little River and has no direct discharge to the shore. Two work boats were observed at Gleason's Cove boat launch. The horse pasture at 76 Shore Rd was found to have no horses present at time of drive through survey. A new septic mound was located at the United Methodist Church at the intersection of Rt. 1 and Gin Cove Rd and the information was updated in shoreline survey database. Five boats were seen at the Robbinston public landing, four were workboats and one was a sailboat. In Robbinston, from approximately the school to the boat landing, there has been extensive work done on the roadside drainage ditches with catch basins installed. No direct discharge to the shore was noted. In the pasture located on the inland side of Route 1 just north of Brooks



Bluff there were 8 beef cattle present. The pasture is located >1500' from the shore with a large grass barrier but does have an intermittent stream draining to the river (EU 275.50).

In preparation for the 2010 sanitary survey, stream samples were collected on April 13, 2009, September 29, 2009 and October 26, 2009.

## Aquaculture/Wet Storage Activity

**COBJK:** This is a pen culture lease for; salmon Atlantic (*Salmo salar*) - trout rainbow / steelhead (*Oncorhynchus mykiss*) - halibut Atlantic (*Hippoglossus hippoglossus*) - cod Atlantic (*Gadus morhua*). The lease is 22 acres and is located in Johnson Cove, Eastport. Station EU 9 is located in the immediate area and has a P90 of 13.6

[Maine Aquaculture Lease Sites](#)

**COBHP:** This is a pen culture site for; salmon Atlantic (*Salmo salar*) - trout rainbow / steelhead (*Oncorhynchus mykiss*) - cod Atlantic (*Gadus morhua*) - halibut Atlantic (*Hippoglossus hippoglossus*) - haddock (*Melanogrammus aeglefinus*). The lease site is 10 acres and is located in Harris Cove, Eastport. Stations EU 7 and 8 are located nearby and have P90's of 10.3 and 3.9 respectively.

[Maine aquaculture Lease Sites](#)

**COBPC:** This is a pen culture site for; salmon Atlantic (*Salmo salar*) - trout rainbow / steelhead (*Oncorhynchus mykiss*) - halibut Atlantic (*Hippoglossus hippoglossus*). The lease site is 26.5 acres and is located in Prince Cove, Eastport. Stations EU 2 and 2.5 are located nearby and have P90's of 10.1 and 25.8 respectively.

[Maine Aquaculture Lease Sites](#)

**COBBC:** This is a pen culture site for; salmon Atlantic (*Salmo salar*) - trout rainbow / steelhead (*Oncorhynchus mykiss*) - nori/laver (*Porphyra*) dulse (*Palmaria palmata*). The lease site is 45 acres and is located in Broad Cove, Eastport. Station EU 1 is located near the site and has a P90 of 16.4.

[Maine Aquaculture Lease Sites](#)





approved classification. The stations classified as restricted have all shown a slight improvement in water quality with all stations trending slightly downward. There is no explanation for this trend. A review of the DEP inspection reports for the WWTP's in this growing area show no changes in performance or permit license parameters.

EU 20 has now exceeded the standard for approved classification; it was reclassified to prohibited on March 10, 2010. A complete sanitary survey of the area will take place during the 2010 season as well as a more detailed data analysis to try and determine what may be causing this increase in P90.



## 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 = 90<sup>th</sup> percentile

APPD\_STD = the 90<sup>th</sup> 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 90<sup>th</sup> percentile, at or below which the station would meet restricted criteria.



### Appendix B. Growing Area EU 2009

Station	Date	Strat	Status	Class	Adv	Temp	Sal	Tide	Wind	Col
EU001.00	16-Mar-09	R	C	P		4	30	F	N	<2
EU001.00	01-Apr-09	R	C	P	P	4	28	LE	SE	2
EU002.00	16-Mar-09	R	C	P		4	30	F	N	<2
EU002.00	01-Apr-09	R	C	P	P	4	29	LE	SE	<2
EU002.50	16-Mar-09	R	C	P		4	30	F	N	<2
EU002.50	01-Apr-09	R	C	P	P	4	30	LE	SE	<2
EU002.50	20-May-09	R	C	P		8	30	E	SE	2
EU002.50	15-Jul-09	R	C	P	O	10	30	F	SE	<2
EU002.50	17-Aug-09	R	C	P	O	14	31	H	SW	12
EU002.50	29-Sep-09	R	C	P	P	13	31	HE	SE	560
EU007.00	16-Mar-09	R	C	P		4	30	F	N	<2
EU007.00	01-Apr-09	R	C	P	P	4	30	LE	SE	<2
EU007.00	20-May-09	R	C	P		8	30	E	SE	<2
EU007.00	15-Jul-09	R	C	P	O	10	30	F	CL	<2
EU007.00	17-Aug-09	R	C	P	O	14	31	H	SW	<2
EU007.00	29-Sep-09	R	C	P	P	12	26	HE	SE	24
EU008.00	16-Mar-09	R	C	P		4	30	F	N	<2
EU008.00	01-Apr-09	R	C	P	P	4	30	LE	SE	<2
EU008.00	20-May-09	R	C	P		8	30	E	SE	<2
EU008.00	15-Jul-09	R	C	P	O	9	30	F	E	<2
EU008.00	17-Aug-09	R	C	P	O	15	31	H	SW	<2
EU008.00	29-Sep-09	R	C	P	P	12	32	HE	SE	16
EU009.00	16-Mar-09	R	C	P		4	30	F	N	<2
EU009.00	01-Apr-09	R	C	P	P	4	30	LE	SE	<2
EU009.00	20-May-09	R	C	P		8	30	E	SE	<2
EU009.00	15-Jul-09	R	C	P	O	13	29	F	NE	<2
EU009.00	17-Aug-09	R	C	P	O	15	30	H	SW	<2
EU009.00	29-Sep-09	R	C	P	P	12	32	E	SE	30
EU010.00	16-Mar-09	R	C	P		4	30	LF	N	<2
EU010.00	01-Apr-09	R	C	P	P	4	30	L	SE	<2
EU010.00	20-May-09	R	C	P		8	29	E	SE	<2
EU010.00	15-Jul-09	R	C	P	O	15	28	F	CL	<2
EU010.00	17-Aug-09	R	C	P	O	15	30	HE	SW	<2
EU010.00	29-Sep-09	R	C	P	P	13	32	E	SE	2
EU011.00	16-Mar-09	R	C	P		4	30	LF	N	<2
EU011.00	01-Apr-09	R	C	P	P	4	30	L	SE	<2
EU011.00	20-May-09	R	C	P		8	29	E	SE	<2
EU011.00	15-Jul-09	R	C	P	O	12	29	F	NW	<2
EU011.00	17-Aug-09	R	C	P	O	14	30	HE	SW	2
EU011.00	29-Sep-09	R	C	P	P	13	31	E	SE	8
EU015.00	16-Mar-09	R	O	R		3	29	LF	N	<2
EU015.00	01-Apr-09	R	O	R	P	5	6	F	SE	<2
EU015.00	20-May-09	R	O	R		9	4	E	SE	10



Station	Date	Strat	Status	Class	Adv	Temp	Sal	Tide	Wind	Col
EU015.00	04-Aug-09	R	O	R	O	15	28	F	SW	25
EU015.00	17-Aug-09	R	O	R	O	16	30	HE	SW	6
EU015.00	29-Sep-09	R	O	R	P	14	2	E	SE	>1600
EU016.00	16-Mar-09	R	O	A		4	29	LF	N	<2
EU016.00	01-Apr-09	R	O	A	P	5	12	L	SE	<2
EU016.00	26-Apr-09	A	C	A	F	7	28	HF	S	<2
EU016.00	27-Apr-09	A	C	A	F	10	1	F	S	2
EU016.00	20-May-09	R	O	A		8	30	E	SE	<2
EU016.00	23-Jun-09	A	C	A	F	11	26	F	NE	18
EU016.00	24-Jun-09	A	C	A	F	12	26	LF	N	29
EU016.00	25-Jun-09	A	C	A	F	15	22	LF	N	148
EU016.00	07-Jul-09	A	C	A	F	8	27	E	E	2
EU016.00	08-Jul-09	A	C	A	F	10	26	HE	E	2
EU016.00	09-Jul-09	A	C	A	F	16	20	HE	SE	<2
EU016.00	15-Jul-09	R	O	A	O	14	26	L	SW	<2
EU016.00	17-Aug-09	R	O	A	O	15	30	HE	SW	2
EU016.00	01-Sep-09	A	C	A	F	11	28	HE	NW	4
EU016.00	02-Sep-09	A	C	A	F	12	16	H	SW	14
EU016.00	29-Sep-09	R	O	A	P	13	22	E	SE	260
EU016.00	28-Oct-09	A	C	A	F	6	27	E	NE	<2
EU016.00	29-Oct-09	A	C	A	F	6	27	E	N	<2
EU016.00	30-Oct-09	A	C	A	F	6	26	E	SW	4
EU017.00	16-Mar-09	R	O	R		3	28	LF	N	<2
EU017.00	01-Apr-09	R	O	R	P	5	12	L	SE	2
EU017.00	20-May-09	R	O	R		8	30	E	SE	<2
EU017.00	15-Jul-09	R	O	R	O	12	25	L	NW	4
EU017.00	17-Aug-09	R	O	R	O	15	30	HE	SW	2
EU017.00	29-Sep-09	R	O	R	P	13	27	E	SE	70
EU018.00	16-Mar-09	R	O	R		3	0	L	N	<2
EU018.00	01-Apr-09	R	O	R	P	5	0	L	SE	4
EU018.00	20-May-09	R	O	R		8	0	E	SE	14
EU018.00	04-Aug-09	R	O	R	O	15	28	F	SW	18
EU018.00	17-Aug-09	R	O	R	O	18	23	HE	SW	18
EU018.00	29-Sep-09	R	O	R	P	13	0	E	SE	>1600
EU018.50	16-Mar-09	R	O	A		4	27	L	N	<2
EU018.50	01-Apr-09	R	O	A	P	5	12	L	SE	<2
EU018.50	20-May-09	R	O	A		8	27	E	SE	<2
EU018.50	15-Jul-09	R	O	A	O	13	26	LF	NW	<2
EU018.50	17-Aug-09	R	O	A	O	15	30	HE	SW	<2
EU018.50	29-Sep-09	R	O	A	P	13	13	E	SE	1600
EU020.00	23-Mar-09	R	O	A		1	28	HE	NW	<2
EU020.00	01-Apr-09	R	O	A	P	5	0	F	SE	4
EU020.00	15-Apr-09	E	O	A	P	6	2	F	N	<2
EU020.00	26-Apr-09	A	C	A	F	7	28	HF	S	<2



Station	Date	Strat	Status	Class	Adv	Temp	Sal	Tide	Wind	Col
EU020.00	20-May-09	R	O	A		8	22	E	SE	<2
EU020.00	23-Jun-09	A	C	A	F	11	26	F	NE	20
EU020.00	24-Jun-09	A	C	A	F	12	25	LF	N	25
EU020.00	07-Jul-09	A	C	A	F	8	25	E	E	10
EU020.00	08-Jul-09	A	C	A	F	10	20	E	E	4
EU020.00	09-Jul-09	A	C	A	F	14	22	E	E	2
EU020.00	15-Jul-09	R	O	A	O	16	25	F	NW	<2
EU020.00	17-Aug-09	R	O	A	O	16	29	HE	SW	<2
EU020.00	01-Sep-09	A	C	A	F	11	16	HE	NW	26
EU020.00	02-Sep-09	A	C	A	F	12	27	HE	SW	4
EU020.00	29-Sep-09	R	O	A	P	13	22	E	SE	1100
EU020.00	28-Oct-09	A	C	A	F	8	13	E	NE	20
EU020.00	29-Oct-09	A	C	A	F	6	10	E	N	8
EU020.00	30-Oct-09	A	C	A	F	6	22	E	SW	2
EU020.00	15-Dec-09	E	O	A	P	4	16	HE	N	4
EU022.00	23-Mar-09	R	C	P		1	26	HE	NW	<2
EU022.00	01-Apr-09	R	C	P	P	5	0	F	SE	2
EU022.00	20-May-09	R	C	P		8	20	E	SE	4
EU022.00	15-Jul-09	R	C	P	O	13	26	LF	NW	2
EU022.00	17-Aug-09	R	C	P	O	16	30	HE	SW	4
EU022.00	29-Sep-09	R	C	P	P	13	23	E	SE	500
EU022.50	16-Mar-09	R	O	A		4	29	L	N	<2
EU022.50	01-Apr-09	R	O	A	P	5	4	L	SE	4
EU022.50	20-May-09	R	O	A		9	26	E	SE	7.3
EU022.50	15-Jul-09	R	O	A	O	13	26	LF	NW	<2
EU022.50	17-Aug-09	R	O	A	O	15	29	HE	SW	<2
EU022.50	29-Sep-09	R	O	A	P	13	30	E	SE	20
EU023.00	16-Mar-09	R	O	A		4	26	L	N	<2
EU023.00	01-Apr-09	R	O	A	P	5	4	L	SE	2
EU023.00	20-May-09	R	O	A		9	25	E	SE	4
EU023.00	15-Jul-09	R	O	A	O	12	27	F	NW	2
EU023.00	17-Aug-09	R	O	A	O	15	30	HE	SW	8
EU023.00	29-Sep-09	R	O	A	P	13	28	E	SE	24
EU025.00	16-Mar-09	R	C	P		4	26	L	N	2
EU025.00	01-Apr-09	R	C	P	P	4	24	LF	SE	<2
EU025.00	20-May-09	R	C	P		9	25	E	SE	<2
EU025.00	15-Jul-09	R	C	P	O	13	24	LF	NW	<2
EU025.00	17-Aug-09	R	C	P	O	15	30	E	SW	6
EU025.00	29-Sep-09	R	C	P	P	14	31	E	SE	14
EU026.00	23-Mar-09	R	C	P		1	30	HE	NW	<2
EU026.00	01-Apr-09	R	C	P	P	5	23	F	SE	<2
EU026.00	20-May-09	R	C	P		9	25	E	SE	<2
EU026.00	15-Jul-09	R	C	P	O	13	24	F	NW	2
EU026.00	17-Aug-09	R	C	P	O	17	30	E	SW	2



Station	Date	Strat	Status	Class	Adv	Temp	Sal	Tide	Wind	Col
EU026.00	29-Sep-09	R	C	P	P	14	31	E	SE	2
EU027.00	23-Mar-09	R	C	P		1	30	HE	NW	<2
EU027.00	01-Apr-09	R	C	P	P	5	1	F	SE	25
EU028.00	16-Mar-09	R	C	P		4	26	L	N	<2
EU028.00	01-Apr-09	R	C	P	P	5	2	LF	SE	18