



GROWING AREA WI
Towns of Cape Elizabeth, South Portland, Portland, Long Island, Falmouth, Cumberland,
Yarmouth and Freeport

ANNUAL REVIEW for 2006

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06/12/08

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TABLE OF CONTENTS

Executive Summary	5
Current Classification(s).....	5
Activity During Review Period	6
Current Management Plan(s).....	6
Current Annual Review of Management Plan(s).....	6
Water Quality and Discussion	7
Shoreline Survey Activity	10
Aquaculture/Wet Storage Activity.....	10
Classification Changes Required	10
Summary.....	10
Appendix A. Annual Review of Management Plan-Falmouth Foreside	11
Appendix B. Annual Review of Management Plan-Cousins River	13
Appendix C. Key to water quality table headers.	15

LIST OF TABLES

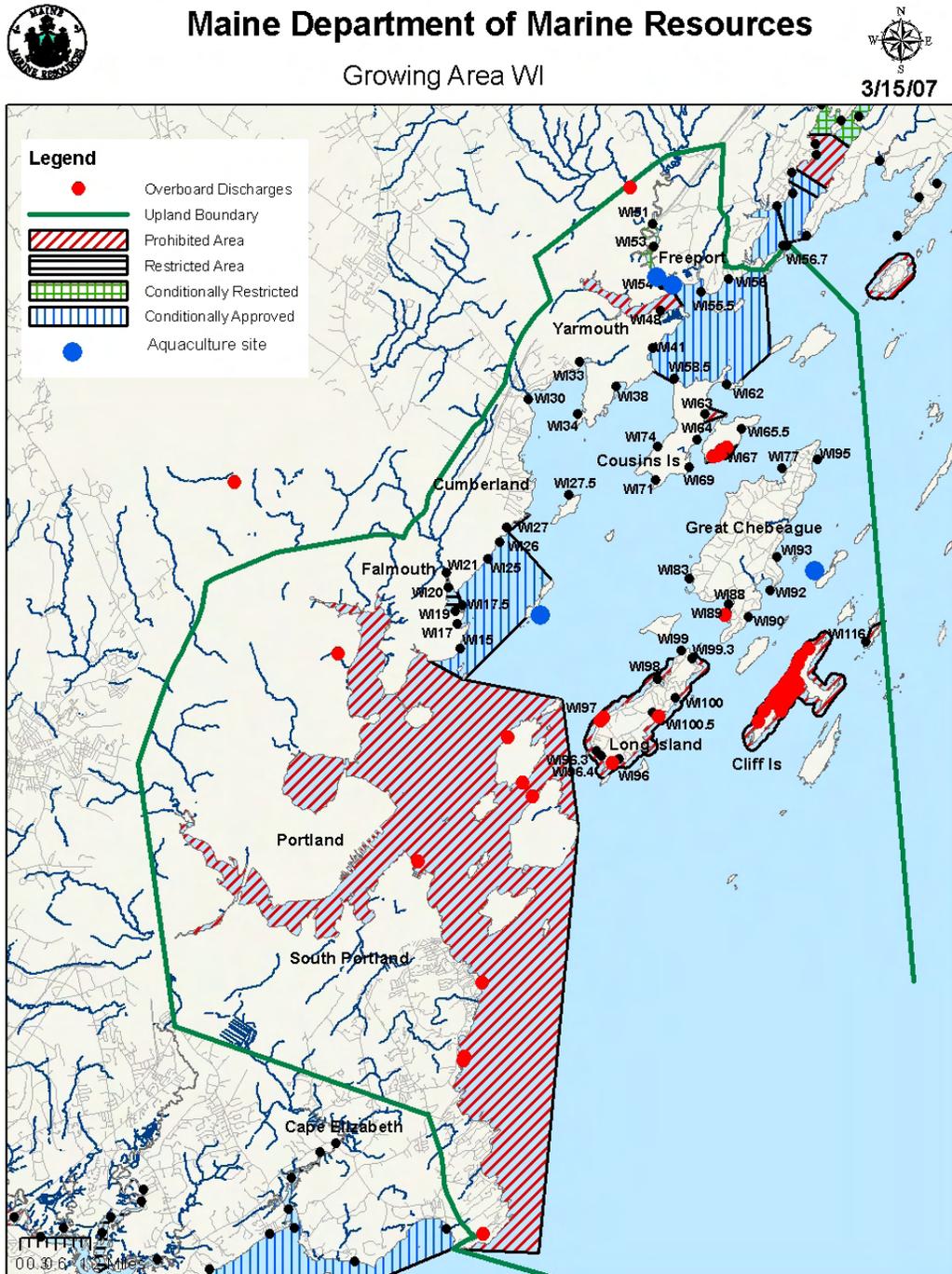
Table 1. Geomean and P90 Scores, Growing Area WI, 2001-2006	8
Table 2. Falmouth Foreside Conditional Area Geomean and P90 Score, Open Status	9
Table 3. Cousins River Conditional Area Geomean and P90-Open Status, 2001-2006.....	9

LIST OF FIGURES

Figure 1. Growing Area WI.....	4
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Figure 1. Growing Area WI





Executive Summary

Growing Area WI is located between McKenney Point, Cape Elizabeth, and Staples Point, Freeport. It includes the towns of Cape Elizabeth, South Portland, Portland, Falmouth, Cumberland, Yarmouth, Long Island, Great Chebeague Island and part of Freeport. A comprehensive map (Figure 1) of the area can be found on Page 4; a detailed boundary description can be found in central files.

The major sources of pollution in Growing Area WI include the Cape Elizabeth, South Portland, Portland and Falmouth Wastewater Treatment Plants (WWTP), which are located in the large prohibited area around Portland Harbor. There is also the Yarmouth WWTP in the Royal River and the Sea Meadows Community WWTP on the east side of Cousins Island. There are numerous overboard discharges (OBDs) in Growing Area WI, all of which are located in prohibited areas, and none of these discharges were removed in 2006. No sampling stations were created or deactivated in 2006. Based on the 2006 water quality review, station WI 38 should be reclassified from approved to restricted, and station WI 64 should be reclassified from approved to prohibited. Additionally, the Cousins River conditionally restricted boundary line should be moved south from station 54 to station WI 55.5, which is the next station that meets the approved standard.

The next triennial report for area WI is due in 2007. The next sanitary survey is due in 2012.

Current Classification(s)

Shellfish growing area WI currently has areas classified as:

Approved

- Great and Little Chebeague Islands (7 Stations)
- Cousins Island (5 Stations)
- Littlejohn Island (1 Station)
- Cumberland and Yarmouth mainland (5 Stations)
- Sturdivant Island (1 Station)
- Long Island (1 Station)
- Winslow Park (2 Stations)

Conditionally Approved

- Falmouth Foreside, Seasonal Marina (4 Stations)
- Cousins River, due to WWTP (1 Station)

Conditionally Restricted

- Cousins River; due to WWTP (3 Stations)

Restricted

- Mussel Cove (3 Stations)

Prohibited

- Cape Elizabeth
- Portland Area/Casco Bay
- Falmouth Foreside (1 Station)
- Great Chebeague Island (1 Station)
- Bates Island (1 Station)



Long Island (8 Stations)
Royal River (1 Station)
Littlejohn Island (1 Station)
Cousins Island (2 Stations)

Visit the DMR website to view Legal Notices for area WB:

MDMR Regulation 95.03 J, Closed Area No. 13-A, Portland Area (Cape Elizabeth to Cumberland)

MDMR Regulation 95.03 K, Closed Area No. 13-B, Great Chebeague, Bates, Long and Cliff Islands (Cumberland, Long Island, Portland)

MDMR Regulation 95.03 L, Closed Area No. 14, Royal River, Cousins River, Cousins Island, Littlejohn Island (Yarmouth and Freeport)

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

Activity During Review Period

On 2/15/06, the Cousins River conditional area closed due to a malfunction at the Yarmouth WWTP. Water and shellfish samples were collected and tested on February 27; all samples met appropriate standards. The area was reopened on 3/2/06.

On 11/6/06, Closure C14 administratively combined the areas previously described in Closed Areas No. 16 and 16-C; AND due to water quality, reclassified most of the waters of the Cousins River as Conditionally Restricted; AND classified a large area at the mouth of the Cousins River as Conditionally Approved, based on the proper functioning of the Yarmouth Wastewater Treatment Plant. This change reclassified stations WI 41, 56 and 58.5 from approved to conditionally approved, and stations WI 53 and 54 from conditionally approved to conditionally restricted.

Current Management Plan(s)

There are management plans for the two conditional areas in growing area WI. Falmouth Foreside seasonal marina conditionally approved area is closed to harvesting May 1 through November 14, due to the presence of boats in the harbor marina, per the management plan. Cousins River conditional area is closed when malfunctions occur at the Yarmouth Wastewater Treatment Plant. Copies of the management plans can be found in the central files.

Current Annual Review of Management Plan(s)

Per the management plan, the Falmouth Foreside seasonal marina area must be visited prior to the reopening to the area in November, in order to confirm that the boats were out of the water and will not impact water quality; the marina was not visited by DMR until 12/11/06. The harbor



was visited on 4/19/06, prior to the seasonal closing, to observe that boats had not yet gone into the water and were not being used.

Per the management plan, the Cousins River wastewater treatment plant conditionally approved and conditionally restricted areas are sampled monthly when the area is open; the area must close in an event of a malfunction at the Yarmouth WWTP. In an event of a WWTP malfunction, the area remains closed for at least two weeks, and both water and shellfish samples are collected at the end of the two week closure period. The closure is lifted after both the water and shellfish samples meet appropriate standards. The complete annual reviews can be found in Appendices A and B.

Water Quality and Discussion

Transitioning to Membrane Filtration for Seawater and Pollution Source Samples

The Maine Department of Marine Resources has chosen to switch to a fecal coliform method that was approved for use in the National Shellfish Sanitation Program (NSSP) at the Interstate Shellfish Sanitation Conference in 2003. This method is the Membrane Filtration (MF) for Fecal Coliforms using mTEC agar with a two hour resuscitation step. The geometric mean and the 90th percentile are calculated on 30 data points extending over a five year period.

During the transition from MPN to MF, we will be accumulating MF data points. The statistical calculations will be a combination of MPN and MF data points. The FDA has determined that the best way to handle the data is to perform the calculations as always for the data set, but to compare the data set to a hybrid weighted 90th percentile. This hybrid standard is calculated by weighting the relative contributions of each method to the database. This will mean that as the number of MPN data points reduce and the number of MF data points increase the 90th percentile standard that the sample site is compared to will change over time.

Once all 30 data points are analyzed using MF, the 90th percentile for approved classification will be 31 and for restricted (for depuration) will be 163. The geomean approved standard of 14 fecal coliforms per 100 ml and geomean restricted standard of 88 fecal coliforms per 100 ml will remain the same for both methods.

Reports that display 90th percentiles will show the number of data points derived from MF analysis and will show the appropriate 90th percentile standard for that MPN/MF combination for approved and restricted classifications. It must be remembered that this weighted standard is only used for data sets encompassing data from the two different test methods, MF and MPN (3 tube/3 dilution). If decisions are to be made on a single test result analyzed by the MF method or a multiple number of test results all exclusively analyzed by the MF method, the 90th percentile standard is 31 fecal coliforms per 100 ml.

This was the first year the water quality program documented in the database the inability to collect a sample based on the following parameters: if the tide stage was too low to collect the sample, there was a safety issue with collecting the sample, the location was inaccessible and "other" which usually was accompanied by a comment on the data sheet. Stations that were unable to be sampled due to any of these parameters show 999 in the salinity column and have



no data recorded in any of the columns but the time is recorded so the actual tide stage can be computed. Stations that were missed due to the above parameters were required to be made up to assure that each station would receive the required six samples during the sampling season.

Water Quality Data Review

Table 1 displays the geomean and P90 scores for all the active approved, restricted and prohibited sampling stations in growing area WI. The data represents the evaluation of the 30 most recent data points collected between 2001 and 2006 throughout the year. A key to the water quality table headers can be found in appendix C. Water quality met appropriate standards at all stations in growing area WI, except stations WI 38 and 64. These two stations do not meet the approved standard and must be reclassified.

Table 1. Geomean and P90 Scores, Growing Area WI, 2001-2006. Stations not meeting their classification standard are highlighted in yellow.

STATION	Class	Count	MFCNT	Geo_Mean	SDV	MAX	P90	Appd_Std	Rest_Std
WI019.00	R	30	2	17.1	0.77	460	162.7	48	288
WI020.00	R	30	2	9.4	0.63	240	60.3	48	288
WI021.00	R	30	2	18.3	0.79	460	185.0	48	288
WI026.00	P	30	2	13.2	0.72	1100	111.1	48	288
WI027.00	A	30	2	4.8	0.42	150	16.5	48	288
WI027.50	A	30	4	3.9	0.37	210	11.5	46	277
WI030.00	A	30	2	5.9	0.50	93	25.7	48	288
WI033.00	A	30	2	8.0	0.60	1100	47.1	48	288
WI034.00	A	30	1	4.5	0.45	240	17.3	48	294
WI038.00	A	30	1	6.9	0.73	1100	60.0	48	294
WI040.00	A	30	0	5.3	0.49	460	22.4	49	300
WI048.00	P	30	4	10.5	0.67	1100	76.7	46	277
WI056.00	A	30	2	4.8	0.42	93	16.2	48	288
WI056.70	A	30	1	4.1	0.37	93	12.2	48	294
WI062.00	P	30	3	6.3	0.66	1200	43.5	47	282
WI063.00	P	30	3	6.9	0.75	1100	61.8	47	282
WI064.00	A	30	3	8.7	0.60	240	51.4	47	282
WI065.50	A	30	3	5.3	0.53	240	25.4	47	282
WI067.00	P	30	1	8.4	0.76	1200	79.4	48	294
WI069.00	P	30	1	3.7	0.31	93	9.0	48	294
WI071.00	A	30	1	4.7	0.44	93	17.1	48	294
WI074.00	A	30	1	5.0	0.61	460	30.3	48	294
WI077.00	A	30	3	4.9	0.37	43	14.6	47	282
WI083.00	A	30	3	3.4	0.25	23	7.1	47	282
WI088.00	A	30	5	4.0	0.35	72	11.1	45	271
WI089.00	P	30	5	4.7	0.42	98	16.0	45	271
WI090.00	A	30	3	3.9	0.29	43	9.2	47	282
WI092.00	A	30	3	4.6	0.44	240	16.6	47	282
WI093.00	A	30	3	3.1	0.13	9.1	4.6	47	282
WI095.00	A	30	3	3.5	0.27	43	7.6	47	282
WI096.00	P	30	2	9.0	0.52	150	41.8	48	288



STATION	Class	Count	MFCNT	Geo_Mean	SDV	MAX	P90	Appd_Std	Rest_Std
WI096.30	P	30	2	8.1	0.55	93	40.8	48	288
WI096.40	New	8	2	13.8	0.84	240	173.9	44	258
WI097.00	P	30	2	5.2	0.36	93	15.2	48	288
WI098.00	P	30	2	7.0	0.50	93	30.5	48	288
WI099.00	A	30	2	6.9	0.61	460	42.1	48	288
WI099.30	P	30	2	6.1	0.56	1100	31.2	48	288
WI100.00	P	30	2	8.6	0.73	1100	74.6	48	288
WI100.50	P	30	2	8.2	0.48	240	33.5	48	288
WI116.00	New	26	3	2.9	0.11	7.3	4.0	46	280

Stations in the Falmouth Foreside marina conditionally approved area all met approved standards during the open status, November 15 to April 30 (Table 2). Station 17.5 is a new station and does not have 30 data points; therefore it does not have a classification.

Table 2. Falmouth Foreside Conditional Area Geomean and P90 Score, Open Status, 2001-2006

STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD
WI015.00	CA	30	1	5.5	0.47	43	21.6	48	294
WI017.00	CA	30	1	6.0	0.45	43	22.7	48	294
WI017.50	New	5	1	3.9	0.23	10	7.8	45	266
WI025.00	CA	30	1	4.8	0.45	460	18.2	48	294

With the exception of WI 41, all stations in the Cousins River conditionally approved and conditionally restricted area met their current classification standards during the open status (Table 3). Station WI 41 did not meet approved standard and should be reclassified as conditionally restricted.

Table 3. Cousins River Conditional Area Geomean and P90-Open Status, 2001-2006

STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD
WI041.00	CA	30	3	7.8	0.64	1200	52.3	47	282
WI051.00	CR	30	4	10.2	0.53	1100	31.3	47	288
WI053.00	CR	30	4	8.5	0.79	1200	88.2	46	277
WI054.00	CR	30	4	7.8	0.75	1100	70.9	46	277
WI055.50	CA	30	4	6.5	0.43	93	22.1	46	277
WI056.00	CA	30	2	4.8	0.42	93	16.2	48	288
WI058.50	CR	30	1	5.2	0.47	240	21.2	48	294

Approved, restricted and prohibited stations that were active at the beginning of the year were sampled six times in 2006 (Appendix D). The marina conditional stations WI 15, 17, 17.5, and 25 were sampled five times in the open status. The treatment plant conditional stations in the Cousins River, WI 51, 53, 54 and 55, were sampled monthly in 2006. Stations 41, 56 and 58.8 were reclassified as conditional in November 2006; therefore they were not sampled at the same frequency as stations WI 51, 53, 54 and 55. All seven of the Cousins River conditional stations will be sampled monthly in the open status in 2007.



Shoreline Survey Activity

The Yarmouth side of Cousins River was surveyed in 2006. A follow up to the 2005 Long Island survey was completed in 2006. No pollution sources were found on the Cousins River to explain the increase in fecal coliform scores. Several potential pollution problems were found on Long Island; these issues have been reported to the Maine DEP for correction.

Aquaculture/Wet Storage Activity

In 2006, there were 3 active aquaculture leases in area WI.

Please visit the Maine DMR web site for aquaculture maps:

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

Classification Changes Required

Stations WI 38, located on the southern side of the Cousins Island causeway, no longer meets the approved standard, but meets the restricted standard, and should be reclassified from approved to restricted. Station WI 41 does not meet the approved standard and should be reclassified from conditionally approved to conditionally restricted.

Station WI 64, located at the Littlejohn Island causeway, no longer meets approved standards and should be made part of the prohibited area around the Cousins Island community WWTP outfall at station WI 63. The source of pollution is currently unknown at this location, and further survey work is necessary in the coming year.

Station WI 54 is classified restricted and is located on the boundary line of the conditionally restricted/conditionally approved area of the Cousins River. This boundary line should be moved south to station WI 55.5, the next station that meets approved standards.

Summary

In 2006, most stations in growing area WI continued to support their current classification under the NSSP. Three sites are being recommended for a downgrade in classification. Two stations on the mainland shore, north and south of the Cousins Island causeway, need to be reclassified as restricted. Furthermore, the mainland shore needs to be resurveyed for potential pollution sources. The closure at the Cousins Island community WWTP outfall needs to be enlarged down to the Littlejohn Island causeway, because water quality no longer meets approved standards on the north side of the causeway. Also, the conditionally restricted area in the Cousins River needs to be extended down to station WI 55.5, the next station that meets approved standards.



Appendix A. Annual Review of Management Plan-Falmouth Foreside

2006 Annual Review Falmouth Foreside Conditional Area Growing Area WI

Scope

Falmouth Foreside is a conditionally approved area due to the seasonal presence of boats at the Falmouth Foreside docks. Falmouth Foreside, monitored by stations WI 15, 17, 17.5, and 25, was classified conditionally approved based on information from observations of the harbor and an interview with the harbormaster regarding the presence or absence of 10 or more boats with heads. It was determined that there were fewer than 10 boats with heads being used in the conditional area from November 1 through April 30. This area is conditionally open for shellfish harvesting from November 15 through April 30.

Compliance with management plan

In 2006, the conditional area closed on May 1 and did not reopen until November 15. Per the management plan, the area should have been visited two weeks before the reopening on November 15 to note if boats were out of the water. Falmouth Foreside was not visited until 12/11/06, at which time there were fewer than 10 boats with heads remaining in the water. DMR has noted this issue, and will visit this conditional area in the last week of October 2007. The area was visited in April 2006, prior to the closing, to ensure that there were fewer than 10 boats in the water.

Adequacy of reporting and cooperation of involved persons

This management plan requires reporting by DMR personnel regarding seasonal visits to the marina, prior to the closure and reopening of the conditional area.

Compliance with approved growing area criteria

The annual review seasonal data analysis showed that the conditionally approved stations in Falmouth Foreside met approved standards during the open season (Table 1).

Table 1. Falmouth Foreside Conditional Area Geomean and P90-Open Status

STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD
WI015.00	CA	30	1	5.5	0.47	43	21.6	48	294
WI017.00	CA	30	1	6.0	0.45	43	22.7	48	294
WI017.50	New	5	1	3.9	0.23	10	7.8	45	266
WI025.00	CA	30	1	4.8	0.45	460	18.2	48	294



Field inspection of critical pollution sources

The potential for pollution in Falmouth Foreside comes from ten or more boats with heads in the harbor that may discharge wastewater overboard. Visual observations are made throughout the year during the course of random sampling and shoreline surveying.

Water sampling compliance history

This conditional area management plan requires the monitoring stations to be sampled a minimum of three time when the area is in the open status. All stations in the Falmouth Foreside conditional area were collected 5 times when in the open status in 2006.

Analysis-Recommendations

It is MDMR policy to visit a marina conditional area two weeks before the reopening to ensure compliance with approved standards. Falmouth Foreside will be visited at the end of October 2007.



Appendix B. Annual Review of Management Plan-Cousins River

2006 Annual Review Cousins River Conditional Area Growing Area WI

Scope

At the end of 2006, the Cousins River had a conditionally approved and a conditionally restricted area based on the proper functioning of the Yarmouth Wastewater Treatment Plant. The river itself is classified conditionally restricted and the area outside the river, between Winslow Park in Freeport, the north end of Cousins Island, and the bridge from Yarmouth mainland to Cousins Island, is classified conditionally approved. Prior to November 6, 2006, only the river was classified conditionally approved based on the proper functioning of the treatment plant.

Compliance with management plan

In 2006, there was one closure due to a treatment plant malfunction. The conditional area closed on February 15, following the emergency response plan, and reopened March 2, following the management plan requirements. Water and shellfish samples were tested on February 27, prior to the reopening, and met approved standards.

Adequacy of reporting and cooperation of involved persons

There is an emergency response plan with the Yarmouth Wastewater Treatment Plant. When there was a plant failure on February 15, plant personnel carried out the emergency response plan and the conditional area closed appropriately.

There is a review of the Yarmouth Wastewater Treatment Plant each year. Personnel at the Yarmouth Wastewater Treatment Plant have worked with DMR on several occasions to track down and correct actual / potential problems as soon as they are identified. They eagerly participated in an FDA dye study conducted in the summer of 2002.

Compliance with approved growing area criteria

The annual review data analysis, as seen in Table 1 below, shows that the conditionally approved and conditionally restricted stations in the Cousins River area met appropriate standards when the area was open, with the exception of station WI 41. This station should be downgraded to conditionally restricted status.

Table 1. Cousins River Area Geomean and P90 Scores, Open Status

STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD
WI041.00	CA	30	3	7.8	0.64	1200	52.3	47	282
WI051.00	CR	30	4	10.2	0.53	1100	31.3	47	288



WI053.00	CR	30	4	8.5	0.79	1200	88.2	46	277
WI054.00	CR	30	4	7.8	0.75	1100	70.9	46	277
WI055.50	CA	30	4	6.5	0.43	93	22.1	46	277
WI056.00	CA	30	2	4.8	0.42	93	16.2	48	288
WI058.50	CR	30	1	5.2	0.47	240	21.2	48	294

Field inspection of critical pollution sources

The potential for pollution in the Cousins River area comes from the improper functioning of the Yarmouth Wastewater Treatment Plant. The outfall pipe from the Yarmouth WWTP, located in the middle of the Royal River, is the primary pollution source. The plant is reviewed each year and continues to function properly.

Water sampling compliance history

Conditional stations were collected monthly when in the open status in 2006.

Analysis-Recommendations

MDMR and Yarmouth Wastewater Treatment Plant Staff shall evaluate the Cousins River Management Plan on an annual basis. At the time of the annual review, the parties involved in the proper management of the Cousins River conditional area shall sign and date the management plan in order to indicate their acceptance of the conditions stated therein.



Appendix C. 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 D. 2006 Water Quality Data

Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL
WI015.00	01/09/06	KEM	E	1	30	R	-	O	CA	43	-
	02/15/06	LL	H	2	30	R	-	O	CA	3.6	-
	03/22/06	JB	LE	2	32	R	-	O	CA	<3.0	-
	04/25/06	JB	HE	6	31	R	-	O	CA	<3.0	-
	04/26/06	AJS	HE	8	32	A	-	O	CA	<3.0	-
	08/08/06	JXK	E	21	30	R	-	C	CA	<3.0	-
	09/12/06	FP	F	15	30	R	-	C	CA	-	<2.0
	12/11/06	LL	F	6	30	R	-	O	CA	-	<2.0
WI017.00	01/17/06	LL	H	3	26	R	-	O	CA	<3.0	-
	02/15/06	LL	H	2	30	R	-	O	CA	<3.0	-
	03/22/06	JB	F	5	32	R	-	O	CA	<3.0	-
	04/25/06	JB	HE	6	30	R	-	O	CA	<3.0	-
	04/26/06	AJS	HE	9	32	A	-	O	CA	<3.0	-
	08/08/06	JXK	E	23	30	R	-	C	CA	<3.0	-
	09/12/06	FP	F	17	30	R	-	C	CA	-	<2.0
	12/11/06	LL	F	6	28	R	-	O	CA	-	24
WI017.50	01/09/06	KEM	E	1	30	R	-	O	CA	<3.0	-
	02/15/06	LL	H	2	30	R	-	O	CA	3.6	-
	03/22/06	JB	L	2	28	R	-	O	CA	<3.0	-
	04/25/06	JB	HE	7	30	R	-	O	CA	<3.0	-
	04/26/06	AJS	HE	9	32	A	-	O	CA	<3.0	-
	08/08/06	JXK	HE	23	30	R	-	C	CA	14	-
	09/12/06	FP	F	16	30	R	-	C	CA	-	4
	12/11/06	LL	F	6	29	R	-	O	CA	-	10
WI019.00	01/30/06	LL	HF	2	16	R	-	O	R	240	-
	02/15/06	LL	H	0	30	R	-	O	R	<3.0	-
	03/22/06	JB	F	5	26	R	-	O	R	23	-
	04/25/06	JB	E	5	30	R	-	O	R	3.6	-
	08/08/06	JXK	HE	21	24	R	-	O	R	39	-
	09/12/06	FP	F	19	28	R	-	O	R	-	4
	12/11/06	LL	F	6	22	R	W	O	R	-	<2.0
	WI020.00	01/30/06	LL	HF	2	31	R	-	O	R	3.6
02/15/06		LL	H	2	30	R	-	O	R	<3.0	-
03/22/06		JB	L	2	18	R	N	O	R	<3.0	-
04/25/06		JB	E	6	30	R	N	O	R	<3.0	-
08/08/06		JXK	HE	23	28	R	-	O	R	3.6	-
09/12/06		FP	F	16	24	R	-	O	R	-	8
12/11/06		LL	F	6	8	R	-	O	R	-	29
WI021.00		01/30/06	LL	HF	2	29	R	-	O	R	9.1
	02/15/06	LL	H	2	4	R	-	O	R	3.6	-
	03/22/06	JB	L	2	1	R	N	O	R	<3.0	-
	04/25/06	JB	E	7	24	R	N	O	R	15	-
	08/08/06	JXK	HE	23	28	R	-	O	R	9.1	-
	09/12/06	FP	F	17	20	R	-	O	R	-	38



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL
	12/11/06	LL	F	6	0	R	-	O	R	-	52
WI025.00	01/09/06	KEM	LE	1	31	R	-	O	CA	<3.0	-
	02/15/06	LL	HE	2	30	R	-	O	CA	15	-
	03/22/06	JB	LF	3	32	R	-	O	CA	<3.0	-
	04/25/06	JB	E	7	30	R	-	O	CA	23	-
	04/26/06	AJS	HE	8	32	A	-	O	CA	3.6	-
	08/08/06	JXK	HE	22	30	R	-	C	CA	3.6	-
	09/12/06	FP	LF	15	30	R	-	C	CA	-	78
	12/11/06	LL	F	6	30	R	-	O	CA	-	2
WI026.00	01/09/06	KEM	LE	2	18	R	-	C	P	93	-
	02/15/06	LL	HE	2	15	R	-	C	P	<3.0	-
	03/22/06	JB	LF	2	32	R	N	C	P	<3.0	-
	03/22/06	JB	F	4	29	R	-	C	P	<3.0	-
	04/25/06	JB	E	7	24	R	N	C	P	<3.0	-
	08/08/06	JXK	H	21	25	R	-	C	P	43	-
	09/12/06	FP	LF	15	30	R	N	C	P	-	<2.0
	12/11/06	LL	LF	6	20	R	-	C	P	-	160
WI027.00	01/30/06	LL	F	2	30	R	-	O	A	9.1	-
	02/15/06	LL	HE	2	30	R	-	O	A	<3.0	-
	03/22/06	JB	F	6	32	R	-	O	A	<3.0	-
	04/25/06	JB	E	8	30	R	-	O	A	3.6	-
	08/08/06	JXK	H	23	28	R	-	O	A	23	-
	09/12/06	FP	LF	16	32	R	N	O	A	-	2
	12/11/06	LL	F	6	30	R	-	O	A	-	11
	WI027.50	04/25/06	CUMB	E	7	30	R	-	O	A	<3.0
07/17/06		YSC	E	20	28	R	-	O	A	3.6	-
08/08/06		CUMB	HF	20	29	R	-	O	A	<3.0	-
09/12/06		YSC	LF	12	31	R	-	O	A	-	<2.0
09/26/06		YSC	LF	10	30	R	-	O	A	-	<2.0
09/26/06		CUMB	LF	10	30	R	-	O	A	-	<2.0
10/24/06		CUMB	F	5	30	R	-	O	A	-	8
WI030.00	01/30/06	LL	F	2	30	R	-	O	A	9.1	-
	02/15/06	LL	HE	2	30	R	-	O	A	<3.0	-
	03/22/06	JB	F	6	32	R	-	O	A	<3.0	-
	04/25/06	JB	E	8	28	R	-	O	A	<3.0	-
	08/08/06	JXK	H	24	28	R	-	O	A	15	-
	09/12/06	FP	F	17	30	R	-	O	A	-	<2.0
	12/11/06	LL	F	6	29	R	-	O	A	-	<2.0
	WI033.00	03/08/06	KEM	LF	8	13	R	-	O	A	9.1
04/26/06		LL	H	8	30	R	-	O	A	<3.0	-
05/10/06		YSC	H	10	29	R	P	O	A	<3.0	-
07/19/06		YSC	E	24	28	R	-	O	A	9.1	-
10/11/06		YSC	HF	12	30	R	-	O	A	-	<2.0
10/24/06		LL	H	11	26	R	P	O	A	-	40
WI034.00		03/08/06	KEM	L	5	31	R	-	O	A	<3.0
	04/26/06	LL	H	8	32	R	-	O	A	7.3	-



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL
	05/10/06	YSC	H	11	29	R	P	O	A	3.6	-
	07/19/06	YSC	LE	23	30	R	-	O	A	<3.0	-
	08/02/06	YSC	E	22	29	R	-	O	A	<3.0	-
	09/27/06	YSC	F	13	31	R	-	O	A	-	<2.0
WI038.00	03/08/06	KEM	L	5	32	R	-	O	A	9.1	-
	04/26/06	LL	H	10	32	R	-	O	A	23	-
	05/10/06	YSC	H	10	23	R	P	O	A	240	-
	07/19/06	YSC	LE	22	29	R	-	O	A	<3.0	-
	08/02/06	YSC	E	20	29	R	-	O	A	<3.0	-
	09/27/06	YSC	LF	13	32	R	-	O	A	-	<2.0
WI041.00	03/28/06	LL	HE	5	32	R	-	O	A	<3.0	-
	04/26/06	LL	E	8	32	R	-	O	A	<3.0	-
	05/10/06	YSC	E	10	27	R	P	O	A	9.1	-
	07/19/06	YSC	E	22	29	R	-	O	A	93	-
	09/27/06	YSC	F	13	31	R	-	O	A	-	2
	10/11/06	YSC	HF	12	30	R	-	O	A	-	2
	10/24/06	LL	HF	11	26	R	P	O	A	-	46
WI048.00	02/07/06	FP	E	1	8	R	PW	C	P	43	-
	03/08/06	KEM	E	3	14	R	N	C	P	<3.0	-
	04/26/06	LL	E	8	32	R	-	C	P	<3.0	-
	05/10/06	YSC	E	11	11	R	P	C	P	44	-
	10/11/06	YSC	F	11	28	R	-	C	P	-	<2.0
	10/24/06	LL	HF	11	10	R	P	C	P	-	106
	11/15/06	CPE	HE	8.2	3	R	-	C	P	-	220
	12/05/06	CPE	H	5	16	R	-	C	P	-	16
WI051.00	01/17/06	LL	E	1	15	R	-	C	P	9.1	-
	02/07/06	FP	E	2	9	R	P	C	P	1100	-
	03/08/06	KEM	E	2	20	R	-	C	P	<3.0	-
	04/26/06	LL	H	7	32	R	-	C	P	<3.0	-
	05/10/06	YSC	H	11	27	R	P	C	P	3.6	-
	06/28/06	JB	H	15	22	R	N	C	P	7.3	-
	07/19/06	YSC	E	22	25	R	-	C	P	43	-
	08/02/06	YSC	E	20	8	R	-	C	P	1100	-
	09/27/06	YSC	F	13	22	R	-	C	P	-	4
	10/11/06	YSC	HF	11	30	R	-	C	P	-	<2.0
	11/15/06	CPE	E	8.4	0	R	-	O	CR	-	320
	12/05/06	CPE	HE	6	26	R	-	O	CR	-	2
WI053.00	01/17/06	LL	HE	2	18	R	-	O	CA	3.6	-
	02/07/06	FP	E	2	15	R	P	O	CA	93	-
	03/08/06	KEM	E	10	24	R	-	O	CA	<3.0	-
	04/26/06	LL	H	7	32	R	-	O	CA	<3.0	-
	05/10/06	YSC	H	11	27	R	P	O	CA	3.6	-
	06/28/06	JB	HF	15	24	R	N	O	CA	3.6	-
	07/19/06	YSC	E	22	28	R	-	O	CA	3.6	-
	08/02/06	YSC	E	20	13	R	-	O	CA	>1100	-
	09/27/06	YSC	F	13	26	R	-	O	CA	-	2



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL
	10/11/06	YSC	HF	11	30	R	-	O	CA	-	<2.0
	11/15/06	CPE	E	8.4	8	R	-	O	CR	-	360
	12/05/06	CPE	HE	3	28	R	-	O	CR	-	4
WI054.00	01/17/06	LL	HE	2	25	R	-	O	CA	<3.0	-
	02/07/06	FP	E	2	10	R	P	O	CA	240	-
	03/08/06	KEM	E	4	30	R	-	O	CA	<3.0	-
	04/26/06	LL	H	8	32	R	-	O	CA	<3.0	-
	05/10/06	YSC	H	11	28	R	P	O	CA	<3.0	-
	06/28/06	JB	F	15	25	R	N	O	CA	3	-
	07/19/06	YSC	E	20	28	R	-	O	CA	9.1	-
	08/02/06	YSC	E	24	22	R	-	O	CA	1100	-
	09/27/06	YSC	F	13	30	R	-	O	CA	-	4
	10/11/06	YSC	HF	11	30	R	-	O	CA	-	<2.0
	11/15/06	CPE	E	8.2	2	R	-	O	CR	-	260
	12/05/06	CPE	H	5	26	R	-	O	CR	-	6
WI055.50	01/17/06	LL	E	2	6	R	-	O	CA	19	-
	02/27/06	LL	HE	0	31	R	S	C	CA	<3.0	-
	03/08/06	FSC	E	4	30	R	-	O	CA	<3.0	-
	04/26/06	JB	H	4	28	R	-	O	CA	3.6	-
	05/10/06	FSC	H	10	28	R	P	O	CA	9.1	-
	06/28/06	JB	H	16	22	R	NP	O	CA	23	-
	07/12/06	LL	HF	20	26	R	-	O	CA	23	-
	08/02/06	LL	L	25	22	R	-	O	CA	75	-
	09/27/06	TKF	F	15	24	R	-	O	CA	-	6
	10/11/06	JXK	E	15	32	R	-	O	CA	-	4
	11/29/06	LL	F	6	18	R	-	O	CA	-	10
	12/05/06	LL	E	6	10	R	-	O	CA	-	8
WI056.00	03/28/06	LL	HE	5	30	R	-	O	A	3.6	-
	04/26/06	JB	H	5	29	R	-	O	A	<3.0	-
	05/10/06	FSC	H	10	30	R	P	O	A	7.3	-
	07/12/06	LL	HF	20	28	R	-	O	A	15	-
	09/27/06	TKF	F	15	30	R	-	O	A	-	<2.0
	10/24/06	LL	F	11	28	R	P	O	A	-	12
WI056.70	03/08/06	FSC	E	4	30	R	-	O	A	<3.0	-
	04/26/06	JB	H	5	32	R	-	O	A	<3.0	-
	05/10/06	FSC	H	10	30	R	P	O	A	<3.0	-
	07/12/06	LL	HF	20	29	R	-	O	A	5.1	-
	08/02/06	LL	L	23	28	R	-	O	A	93	-
	09/27/06	TKF	L	10	30	R	-	O	A	-	<2.0
WI058.50	03/08/06	KEM	L	3	30	R	-	O	A	<3.0	-
	04/26/06	LL	HE	8	32	R	-	O	A	<3.0	-
	05/10/06	YSC	H	11	28	R	P	O	A	43	-
	07/19/06	YSC	E	20	29	R	-	O	A	43	-
	08/02/06	YSC	LE	24	28	R	-	O	A	9.1	-
	09/27/06	YSC	F	13	31	R	-	O	A	-	<2.0
WI062.00	03/08/06	KEM	LE	4	30	R	-	O	A	<3.0	-



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL
	04/26/06	LL	HE	9	32	R	-	O	A	>1100	-
	05/10/06	YSC	HE	11	30	R	P	O	A	<3.0	-
	09/27/06	YSC	F	13	31	R	-	O	A	-	<2.0
	10/11/06	YSC	F	11	30	R	-	O	A	-	<2.0
	10/24/06	LL	H	11	28	R	P	O	A	-	6
WI063.00	03/08/06	KEM	LE	3	32	R	-	C	P	<3.0	-
	04/26/06	LL	HE	8	31	R	-	C	P	<3.0	-
	05/10/06	YSC	HE	11	28	R	P	C	P	3	-
	09/27/06	YSC	F	13	32	R	-	C	P	-	<2.0
	10/11/06	YSC	F	11	30	R	-	C	P	-	<2.0
WI064.00	10/24/06	LL	H	11	28	R	P	C	P	-	54
	03/28/06	LL	E	5	28	R	-	O	A	<3.0	-
	04/26/06	LL	HE	8	32	R	-	O	A	<3.0	-
	05/10/06	YSC	HE	10	28	R	P	O	A	9.1	-
	10/11/06	YSC	F	11	30	R	-	O	A	-	3.6
WI065.50	10/24/06	LL	H	11	28	R	P	O	A	-	25
	11/15/06	CPE	E	8.7	28	R	-	O	A	-	27
	03/08/06	KEM	LE	3	30	R	-	O	A	<3.0	-
	04/26/06	LL	HE	8	32	R	-	O	A	9.1	-
	05/10/06	YSC	HE	10	30	R	P	O	A	<3.0	-
WI067.00	09/27/06	YSC	L	13	31	R	-	O	A	-	<2.0
	10/11/06	YSC	F	11	31	R	-	O	A	-	<2.0
	10/24/06	LL	H	11	28	R	P	O	A	-	52
	03/08/06	KEM	LE	2	31	R	-	C	P	<3.0	-
	04/26/06	LL	HE	8	32	R	-	C	P	<3.0	-
WI069.00	05/10/06	YSC	HE	10	30	R	P	C	P	3.6	-
	07/19/06	YSC	E	20	29	R	B	C	P	<3.0	-
	08/02/06	YSC	LE	22	29	R	-	C	P	23	-
	09/27/06	YSC	LF	13	31	R	-	C	P	-	<2.0
	03/08/06	KEM	L	2	30	R	-	C	P	<3.0	-
WI071.00	04/26/06	LL	HE	8	32	R	-	C	P	<3.0	-
	05/10/06	YSC	HE	9	30	R	P	C	P	<3.0	-
	07/19/06	YSC	E	25	29	R	B	C	P	7.3	-
	08/02/06	YSC	L	24	29	R	-	C	P	3.6	-
	09/27/06	YSC	LF	13	31	R	-	C	P	-	<2.0
WI074.00	03/08/06	KEM	L	3	30	R	-	O	A	<3.0	-
	04/26/06	LL	E	10	32	R	-	O	A	75	-
	05/10/06	YSC	HE	9	30	R	P	O	A	9.1	-
	07/19/06	YSC	E	20	29	R	-	O	A	3.6	-
	08/02/06	YSC	L	21	29	R	-	O	A	<3.0	-
WI074.00	09/27/06	YSC	LF	13	32	R	-	O	A	-	<2.0
	03/08/06	KEM	L	2	32	R	-	O	A	<3.0	-
	04/26/06	LL	HE	8	32	R	-	O	A	<3.0	-
	05/10/06	YSC	E	9	30	R	P	O	A	<3.0	-
	07/19/06	YSC	E	20	29	R	-	O	A	<3.0	-
WI074.00	08/02/06	YSC	L	23	28	R	-	O	A	9.1	-



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL
	09/27/06	YSC	LF	13	31	R	-	O	A	-	<2.0
WI077.00	04/25/06	CUMB	HE	5	30	R	-	O	A	<3.0	-
	07/17/06	YSC	LE	18	30	R	-	O	A	3.6	-
	08/08/06	CUMB	HF	20	29	R	-	O	A	<3.0	-
	09/12/06	YSC	LF	10	31	R	-	O	A	-	<2.0
	09/26/06	YSC	LF	10	30	R	-	O	A	-	<2.0
	10/24/06	CUMB	F	5	26	R	-	O	A	-	36
WI083.00	04/25/06	CUMB	E	6	30	R	-	O	A	<3.0	-
	07/17/06	YSC	F	16	30	R	-	O	A	<3.0	-
	08/08/06	CUMB	H	19	29	R	-	O	A	<3.0	-
	09/12/06	YSC	F	11	31	R	-	O	A	-	<2.0
	09/26/06	YSC	F	10	30	R	-	O	A	-	<2.0
	10/24/06	CUMB	F	6	30	R	-	O	A	-	2
WI088.00	04/25/06	CUMB	E	6	30	R	-	O	A	<3.0	-
	09/12/06	YSC	F	10	31	R	-	O	A	-	<2.0
	09/26/06	YSC	F	10	30	R	-	O	A	-	<2.0
	10/11/06	YSC	F	11	30	R	-	O	A	-	<2.0
	10/24/06	CUMB	F	6	30	R	-	O	A	-	<2.0
	11/15/06	CPE	E	8.7	24	R	-	O	A	-	72
WI089.00	04/25/06	CUMB	E	5	30	R	-	C	P	<3.0	-
	07/17/06	YSC	LF	18	30	R	-	C	P	<3.0	-
	08/08/06	CUMB	H	19	29	R	-	C	P	<3.0	-
	09/12/06	YSC	F	11	32	R	-	C	P	-	<2.0
	09/26/06	YSC	F	9	30	R	-	C	P	-	<2.0
	10/11/06	YSC	F	11	30	R	-	C	P	-	<2.0
	10/24/06	CUMB	F	6	30	R	-	C	P	-	8
	11/15/06	CPE	E	8.7	22	R	-	C	P	-	98
WI090.00	04/25/06	CUMB	HE	5	30	R	-	O	A	<3.0	-
	07/17/06	YSC	LF	15	30	R	-	O	A	<3.0	-
	08/08/06	CUMB	H	18	29	R	-	O	A	3.6	-
	09/12/06	YSC	LF	10	32	R	-	O	A	-	<2.0
	09/26/06	YSC	F	10	30	R	-	O	A	-	<2.0
	10/24/06	CUMB	F	6	30	R	-	O	A	-	6
WI092.00	04/25/06	CUMB	HE	4	30	R	-	O	A	<3.0	-
	07/17/06	YSC	L	17	30	R	-	O	A	3.6	-
	08/08/06	CUMB	HF	18	999	R	-	O	A	-	-
	09/12/06	YSC	LF	11	32	R	-	O	A	-	<2.0
	09/26/06	YSC	F	9	30	R	-	O	A	-	<2.0
	10/24/06	CUMB	F	7	30	R	-	O	A	-	4
WI093.00	04/25/06	CUMB	HE	5	30	R	-	O	A	<3.0	-
	07/17/06	YSC	L	15	30	R	-	O	A	<3.0	-
	08/08/06	CUMB	HF	19	29	R	-	O	A	<3.0	-
	09/12/06	YSC	LF	10	31	R	-	O	A	-	<2.0
	09/26/06	YSC	F	10	30	R	-	O	A	-	<2.0
	10/24/06	CUMB	F	6	30	R	-	O	A	-	2
WI095.00	04/25/06	CUMB	HE	5	30	R	-	O	A	<3.0	-



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL
	07/17/06	YSC	LE	16	30	R	-	O	A	<3.0	-
	08/08/06	CUMB	HF	20	29	R	-	O	A	9.1	-
	09/12/06	YSC	LF	12	32	R	-	O	A	-	<2.0
	09/26/06	YSC	F	9	30	R	-	O	A	-	<2.0
	10/24/06	CUMB	F	6	30	R	-	O	A	-	2
WI096.00	03/22/06	AJS	LE	6	32	R	-	C	P	<3.0	-
	04/25/06	LIG	HF	7	30	R	-	C	P	<3.0	-
	07/19/06	LIG	HE	15	30	R	-	C	P	<3.0	-
	08/08/06	LIG	HF	18	30	R	-	C	P	23	-
	09/12/06	LIG	LF	13	30	R	-	C	P	-	40
	10/24/06	LIG	HF	10	30	R	-	C	P	-	<2.0
WI096.30	03/22/06	AJS	L	6	32	R	N	C	P	<3.0	-
	04/25/06	LIG	H	7	30	R	-	C	P	<3.0	-
	07/19/06	LIG	HE	14	30	R	-	C	P	3.6	-
	08/08/06	LIG	H	17	28	R	-	C	P	93	-
	09/12/06	LIG	L	12	30	R	-	C	P	-	33
	10/24/06	LIG	F	9	30	R	-	C	P	-	<2.0
WI096.40	03/22/06	AJS	L	6	32	R	W	C	P	<3.0	-
	04/25/06	LIG	H	7	30	R	-	C	P	<3.0	-
	07/19/06	LIG	HE	15	30	R	-	C	P	<3.0	-
	08/08/06	LIG	H	17	30	R	-	C	P	240	-
	09/12/06	LIG	L	12	30	R	-	C	P	-	16
	10/24/06	LIG	F	9	28	R	-	C	P	-	20
WI097.00	03/22/06	AJS	L	6	31	R	-	C	P	<3.0	-
	04/25/06	LIG	H	7	30	R	-	C	P	<3.0	-
	07/19/06	LIG	HE	15	30	R	-	C	P	<3.0	-
	08/08/06	LIG	F	16	30	R	-	C	P	15	-
	09/12/06	LIG	L	13	30	R	-	C	P	-	10
	10/24/06	LIG	F	10	30	R	-	C	P	-	11
WI098.00	03/22/06	AJS	L	6	31	R	-	C	P	<3.0	-
	04/25/06	LIG	H	7	30	R	-	C	P	<3.0	-
	07/19/06	LIG	HE	16	29	R	-	C	P	9.1	-
	08/08/06	LIG	F	17	29	R	-	C	P	3.6	-
	09/12/06	LIG	E	13	30	R	-	C	P	-	2
	10/24/06	LIG	F	9	30	R	-	C	P	-	60
WI099.00	03/22/06	AJS	L	7	32	R	-	O	A	<3.0	-
	04/25/06	LIG	HE	7	30	R	-	O	A	<3.0	-
	07/19/06	LIG	E	15	30	R	-	O	A	3.6	-
	08/08/06	LIG	F	17	30	R	-	O	A	7.3	-
	09/12/06	LIG	E	12	30	R	-	O	A	-	<2.0
	10/24/06	LIG	F	9	30	R	-	O	A	-	4
WI099.30	03/22/06	AJS	L	6	32	R	-	C	P	<3.0	-
	04/25/06	LIG	HE	7	30	R	-	C	P	<3.0	-
	07/19/06	LIG	E	16	29	R	-	C	P	23	-
	08/08/06	LIG	F	18	30	R	-	C	P	<3.0	-
	09/12/06	LIG	LE	12	30	R	-	C	P	-	18



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL
	10/24/06	LIG	F	8	30	R	-	C	P	-	4
WI100.00	03/22/06	AJS	L	7	31	R	-	C	P	<3.0	-
	04/25/06	LIG	HE	7	30	R	-	C	P	<3.0	-
	07/19/06	LIG	E	16	29	R	-	C	P	93	-
	08/08/06	LIG	HF	17	30	R	-	C	P	9.1	-
	09/12/06	LIG	L	13	30	R	-	C	P	-	2
	10/24/06	LIG	F	10	29	R	-	C	P	-	2
WI100.50	03/22/06	AJS	LE	8	31	R	-	C	P	<3.0	-
	04/25/06	LIG	H	7	30	R	-	C	P	<3.0	-
	07/19/06	LIG	E	16	30	R	-	C	P	9.1	-
	08/08/06	LIG	HF	17	30	R	-	C	P	43	-
	09/12/06	LIG	E	11	30	R	-	C	P	-	12
	10/24/06	LIG	HF	9	22	R	-	C	P	-	10
WI116.00	04/25/06	CUMB	E	5	30	R	-	C	P	<3.0	-
	07/17/06	YSC	LF	15	30	R	-	C	P	<3.0	-
	08/08/06	CUMB	H	16	30	R	-	C	P	<3.0	-
	09/12/06	YSC	F	10	32	R	-	C	P	-	<2.0
	09/26/06	YSC	F	10	30	R	-	C	P	-	<2.0
	10/24/06	CUMB	F	7	30	R	-	C	P	-	2