Section 5-5 Mousam River (Mousam and Kennebunk Rivers Alliance)

Refer to Chapter 4 of this document for information about sampling methods, sampling sites, and quality assurance.

Overview

The Mousam and Kennebunk Rivers Alliance began in 2009 with assistance from the Wells National Estuarine Research Reserve (NERR) and Maine Rivers, for the purpose of monitoring the Kennebunk and Mousam rivers. The Mousam River is located in York County and originates at Square Pond in Shapleigh and Acton, Maine. The river is 23 miles long, flows from Mousam Lake in Shapleigh, and enters the Gulf of Maine in Kennebunk. Water quality in the Mousam River was impacted historically by industrial and commercial use related to mills in the towns of Sanford and Kennebunk (Baker, 1999). Today, water quality impacts are caused in large part by stormwater runoff associated with increasing development of the watershed and high levels of impervious surfaces in the town centers of Sanford and Kennebunk. Water quality is also impacted by several point source discharges to the main stem. In addition, the industrial legacy of the ten dams on the main stem of the river may also contribute to degraded water quality. According to Maine's statutory Water Classification System, the Mousam River Basin has designations listed below.¹ Below head of tide, the river is Class SB.

A. Mousam River, main stem.

- (1) From the outlet of Mousam Lake to a point located 0.5 miles above Mill Street in Springvale Class B.
- (2) From a point located 0.5 mile above Mill Street in Springvale to its confluence with Estes Lake Class C.
- (3) From the outlet of Estes Lake to tidewater Class B.
- B. Mousam River, tributaries Class B.

It was identified in a 2001 TMDL report that a 3.7 mile segment of the Mousam River, located from the Route 4 bridge to Estes Lake, is not attaining Class C standards due to dissolved oxygen concentration. This segment is included on Maine's 303(d) list for both point and non-point sources. Listing essentially means that the segment has been identified as needing, and is targeted for, remediation.

The overall purpose of monitoring is to assess water quality data to determine whether the river is meeting water quality classification standards. The Mousam River Sampling and Analysis Plan states that the objectives of monitoring are to: (1) develop baseline data for expanded long-term water quality monitoring efforts; (2) provide information on current watershed conditions; and (3) identify areas with degraded water quality to focus best management practices. Two sites were added in 2010 to bracket upstream and downstream of the sewage outfall in Sanford.

¹ <u>http://www.mainelegislature.org/legis/statutes/38/title38sec467.html</u>

Methods

The volunteers monitored the Mousam River in 2011 at ten stations on the main stem, from the headwaters to the estuary (Table 5-5-1 and Figures 5-5-1 through 5-5-5). Three of the stations [MOUR-06, MOUR-07 and MOUR-08] are below head of tide. There are also three tributary sites on the Middle Branch of the Mousam River and Littlefield River. All but one of the Mousam River sites are VRMP approved sites- the one non approved site is MOUR-04.

VRMP Site ID	Organization Site Code	Sample Location	Class
Mousam River-SMU290-VRMP	MOUR-01	Headwaters	В
Mousam River-SMU280-VRMP	MOUR-02	S Curve Road	В
Mousam River-SMU144-VRMP	MOUR-03	Whicher's Hill Road	В
Mousam River-SMU80-KMA	MOUR-04	Mill Street	В
Mousam River-SMU39-VRMP	MOUR-05	Berry Ct.	В
Mousam River-SMU35-VRMP	MOUR-06	Roger's Pond	SB
Mousam River-SMU04-VRMP	MOUR-07	Route 9 Bridge	SB
Back Creek-SMUBC02-VRMP	MOUR-08	Above Parson's Beach	SB
Mousam River-SMU163-VRMP	MOUR-09	Route 4	С
Mousam River-SMU204-VRMP	MOUR-10	New Dam Road	С
Littlefield River-SMUMBLR18-VRMP	LR-01	Back Road	В
Middle Branch Mousam River- SMUMB58-VRMP	MOUSMB-01	Mast Road	В
Middle Branch Mousam River- SMUMB33-VRMP	MOUSMB-02	Swett's Bridge	В

 Table 5-5-1: Mousam and Kennebunk Rivers Alliance sampling sites on the Mousam River.

Monitoring was conducted from June through September 1-2 times per month. At each site, the monitors made direct measurements of water temperature and dissolved oxygen using a handheld YSI 550A meter. Conductivity was directly measured at the freshwater sites using an Oakton EC 11+ Testr conductivity pen. Samples were collected for *E. coli* bacteria at all the freshwater sites, except for the two headwater sites. Samples for Enterococcus bacteria were collected at two of the sites below head of tide. Bacteria samples were transported to Nelson Labs for analysis.

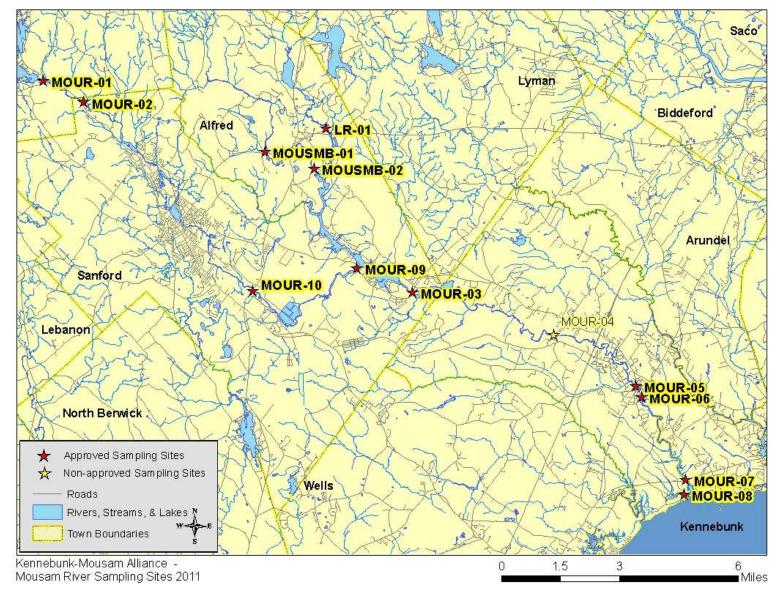


Figure 5-5-1: Map of all Mousam and Kennebunk Rivers Alliance sampling sites on the Mousam River.

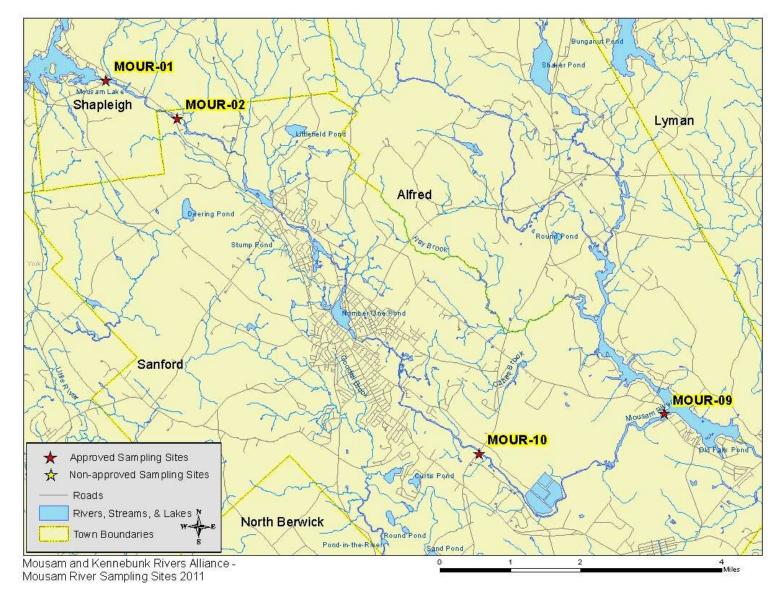


Figure 5-5-2: Map of Mousam and Kennebunk Rivers Alliance sampling sites on the upper Mousam River.

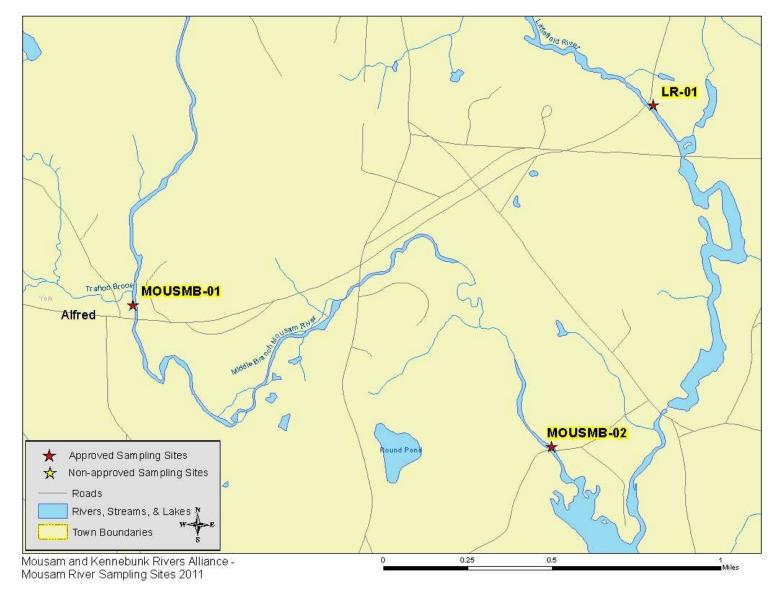


Figure 5-5-3: Map of Mousam and Kennebunk Rivers Alliance sampling sites in the upper branch of the Mousam River.

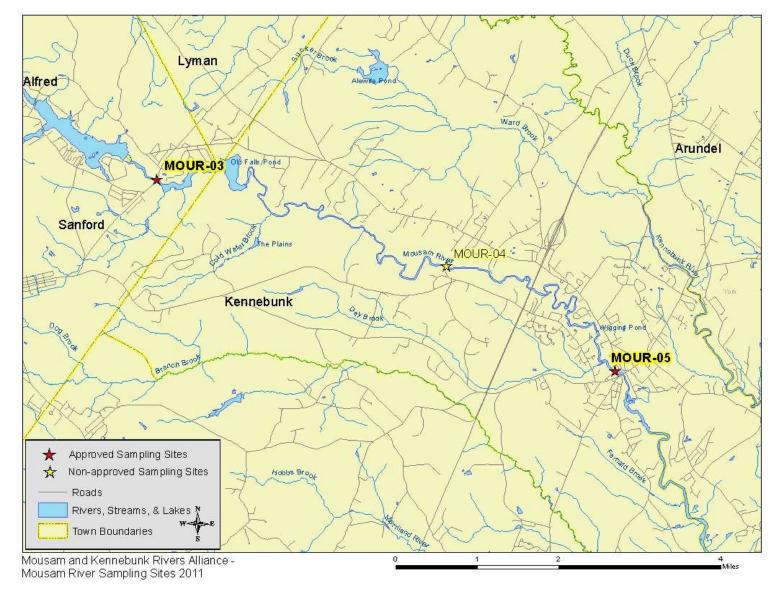


Figure 5-5-4: Map of Mousam and Kennebunk Rivers Alliance sampling sites in the mid-section of the Mousam River.

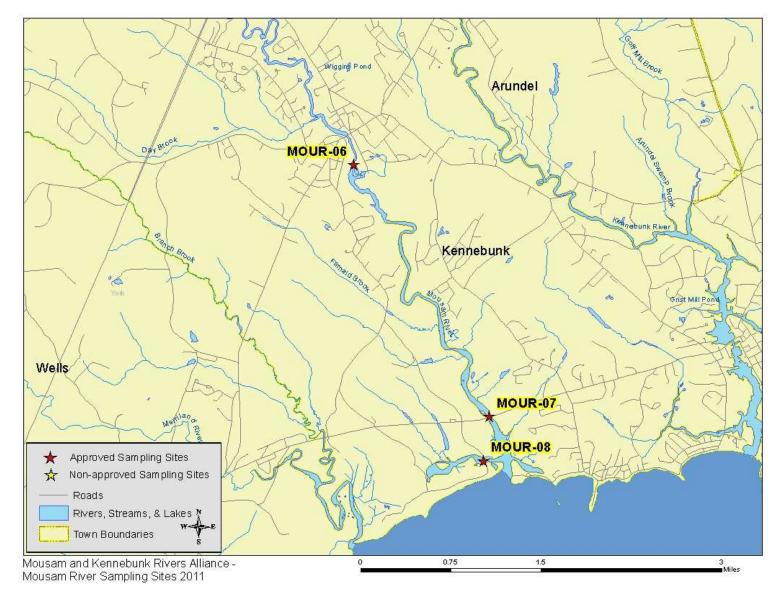


Figure 5-5-5: Map of Mousam and Kennebunk Rivers Alliance tidal sampling sites on the Mousam River.

Results

For the purpose of discussion, the sampling stations were divided into upper (MOUR-01, MOUR-02, MOUR-09, MOUR-10), middle (MOUR-03, MOUR-04, MOUR-05), tidal (MOUR-06, MOUR-07, MOUR-08) and upper branches (MOUSMB-01, MOUSMB-02, LR-01). Refer to appendices A-1 and A-2 in discussion of individual site data and trends, as well as graphed data (Figures 5-5-7 through 5-5-25) and data graphed by river mile (Figures 5-6-26 through 5-5-30), at the end of this section of the report.

Dissolved Oxygen

Dissolved oxygen (DO) was measured 2-8 times at each of the thirteen sampling sites (Table 5-5-2 and Table 5-5-3). Monitoring occurred from June through September. Class B criteria for dissolved oxygen are a minimum of 7 mg/l (milligrams/liter) or 75% saturation. Class C criteria for dissolved oxygen are a minimum of 5 mg/l or 60 % saturation. To meet water quality criteria, both concentration and saturation standards must be met. Class SB standards are 85% saturation.

Table 5-5-2: A summary of minimum, maximum, and average dissolved oxygen concentration (mg/l) values for Mousam and Kennebunk Rivers Alliance monitoring sites on the Mousam River.

Site	Approved Site	# of Samples	Minimum Value	Maximum Value	Average Value
MOUR-01	Y	9	7.4	8.9	8.2
MOUR-02	Y	9	7.2	8.9	8.1
MOUR-03	Y	7	8.0	8.9	8.4
MOUR-04	Ν	6	6.4	8.5	7.2
MOUR-05	Y	6	6.8	8.2	7.4
MOUR-06	Y	6	8.5	9.2	8.8
MOUR-07	Y	6	8.9	10.7	9.5
MOUR-08	Y	6	8.7	10.2	9.5
MOUR-09	Y	7	6.2	8.5	7.3
MOUR-10	Y	7	7.0	8.9	7.6
LR-01	Y	7	3.4	6.7	4.9
MOUSMB-01	Y	7	6.7	9.2	7.8
MOUSMB-02	Y	7	7.2	8.7	7.7

Site	Approved	# of	Minimum	Maximum	Average
	Site	Samples	Value	Value	Value
MOUR-01	Y	9	88.6	97.7	95.0
MOUR-02	Y	9	87.4	97.2	93.6
MOUR-03	Y	7	92.0	107.1	96.2
MOUR-04	Ν	6	72.0	102.2	82.0
MOUR-05	Y	6	77.2	90.5	83.1
MOUR-06	Y	6	91.9	99.6	97.0
MOUR-07	Y	6	96.6	106.2	101.5
MOUR-08	Y	6	93.6	105.8	99.0
MOUR-09	Y	7	73.4	96.4	82.3
MOUR-10	Y	7	75.7	107.0	88.4
LR-01	Y	7	37.8	77.0	56.7
MOUSMB-01	Y	7	75.6	92.8	83.6
MOUSMB-02	Y	7	76.2	88.2	81.1

Table 5-5-3: A summary of minimum, maximum, and average dissolved oxygen saturation (%) values for Mousam and Kennebunk Rivers Alliance monitoring sites on the Mousam River.

In the upper part of the Mousam River main stem (Sites MOUR-01, MOUR-02, MOUR-09, MOUR-10), dissolved oxygen concentrations ranged from 6.2-8.9 mg/l. Sites MOUR-01 and MOUR-02 were similar with lowest values occurring between early July and early August. Dissolved oxygen never dropped below the Class B standard of 7.0 mg/l. Site MOUR-09 had lowest values in August. This site had a wider range of values, but did not drop below the Class C standard. Site MOUR-10 had lowest values in August into early September, but did not drop below the Class C standard. Dissolved oxygen percent saturation ranged from 73.4-107%. It did not go below the Class B or C standard for any of these sites.

In the middle part of the Mousam River main stem (Sites MOUR-03, MOUR-04, MOUR-05), DO ranged from 6.4-8.9 mg/l. Site MOUR-03 had the lowest values in August. Sites MOUR-04 and MOUR-05 were similar in that values went up and down throughout the season. Dissolved oxygen dropped below the Class B standard on three dates at site MOUR-04 and on one date (mid-August) at site MOUR-05. Dissolved oxygen percent saturation ranged from 72.0-107.1%. It dropped below the Class B standard at site MOUR-04 on just one occasion in late-June.

For the tidal sites (MOUR-06, MOUR-07, MOUR-08), dissolved oxygen ranged from 8.4-10.7 mg/l. Lowest values for all three sites occurred during the typical July-August season. Dissolved oxygen did not drop below the Class SB standard of 85% saturation for any of these sites.

For the upper branch (Sites MOUSMB-01, MOUSMB-02, LR-01), dissolved oxygen ranged from 3.4 mg/l -8.7 mg/l. At site MOUSMB-01, lowest values occurred from late June to early August. Dissolved oxygen dropped below the Class B standard on one date in early-August. At site MOUSMB-02, low values were scattered throughout the sampling season. Site LR-01 was consistently below the Class B standard with values ranging as low as 3.4. Dissolved oxygen saturation for these sites ranged from 37.8-92.8%. MOUSMB-01 and MOUSMB-02 met the standard, but LR-01 consistently did not attain the standard throughout the sampling season.

The monitors did a better job of getting out to sites earlier in the day and should continue to try and get at least some early morning readings (before 8:00 am). Afternoon is the time of day when plant photosynthesis peaks, and DO is at the highest level during any 24-hour period. Early morning monitoring may have provided even lower readings at some of the sites. Dissolved oxygen is also affected by flow conditions. During high flow conditions, more oxygen is added to the river from the atmosphere, as the water is moving faster and there is more opportunity for mixing. If flow during the summer months is higher or lower than generally normal, then this will affect the dissolved oxygen.

Water Temperature

Temperature was measured 6-9 times at each of the thirteen sampling sites (Table 5-5-4). Monitoring occurred from June through September. Maine's Regulations Relating to Temperature (06-096 CMR Chapter 582) require that discharge of pollutants not raise the temperature of any river and stream above the EPA criteria for indigenous species (23°C maximum and 19°C weekly average) or 0.3°C (0.5°F) above the temperature that would naturally occur outside a mixing zone established by the Board of Environmental Protection. Pollutant is defined in statute as many things including dirt and heat. For tidal waters, discharge of pollutants may not raise the temperature more than 4°F (2.2°C) or more than 1.5°F (0.8°C) from June 1 to September 1, and may not cause the temperature of any tidal waters to exceed 85°F (29°C) at any point outside a mixing zone established by the Board of Environmental Protection.

Site	Approved	# of	Minimum	Maximum	Average
	Site	Samples	Value	Value	Value
MOUR-01	Y	9	19.8	26.1	22.6
MOUR-02	Y	9	18.5	25.9	22.1
MOUR-03	Y	7	18.6	24.5	21.9
MOUR-04	Ν	6	19.8	23.5	21.4
MOUR-05	Y	6	19.2	23.7	21.0
MOUR-06	Y	6	19.1	23.2	21.0
MOUR-07	Y	6	15.2	18.1	16.7
MOUR-08	Y	6	13.0	18.0	16.1
MOUR-09	Y	7	18.0	23.5	21.3
MOUR-10	Y	7	18.3	25.1	22.9
LR-01	Y	7	17.7	23.9	21.6
MOUSMB-01	Y	7	16.0	21.8	19.1
MOUSMB-02	Y	7	16.1	18.9	17.9

Table 5-5-4: A summary of minimum, maximum, and average water temperature (°C) values for Mousam and Kennebunk Rivers Alliance monitoring sites on the Mousam River.

In the upper part of the Mousam River main stem (Sites MOUR-01, MOUR-02, MOUR-09, MOUR-10), temperatures ranged from 18.0° to 25.9°C (Celsius). Site MOUR-01 had high temperature, ranging from 19.8-26.1°C from early June to late September. Site MOUR-02 was similar with temperature ranging from 18.5-25.9°C from early June to late September. Temperatures at Sites MOUR-09 and MOUR-10 were also high with temperature ranging from

18.0-23.5°C at Site MOUR-09 and 18.3-25.1°C at Site MOUR-10, from early-June to late September.

In the middle part of the Mousam River main stem (Sites MOUR-03, MOUR-04, MOUR-05), temperatures ranged from 18.6-24.5°C. All these sites were high through part or most of the summer. At Site MOUR-03, temperatures were from 18.6-24.5°C from early June to late September. Site MOUR-04 had temperatures from 19.8-23.5°C and Site MOUR-05 had temperatures from 19.2-23.7°C from early June to late September.

For the tidal sites (MOUR-06, MOUR-07, MOUR-08), temperatures ranged from 13.0-23.2°C. Site MOUR-06 had the highest temperatures and from early June to late September ranged from 19.1-23.2°C. Sites MOUR-07 and MOUR-08 had lower temperatures with average temperature 16.7 and 16.1°C. Neither site exceeded 20.0°C during the sampling season.

For the upper branch (Sites MOUSMB-01, MOUSMB-02, LR-01), temperatures ranged from 16.0-23.9°C. Site MOUSMB-01 temperatures ranged from 16.0-21.8°C during the sampling season. Site MOUSMB-02 had lower temperatures and never exceeded 20.0°C during the sampling season. Site LR-01 ranged between 17.7-23.9°C during the sampling season.

Specific Conductance

Specific conductance was measured 6-9 times at each of the ten freshwater sampling sites (Table 5-5-5). Monitoring occurred from June through September. Specific conductance is related to the amount of dissolved materials in the water. While there are no numerical standards, a relationship exists between conductivity and chloride which has numerical criteria. In general, streams located in urban areas tend to have high specific conductance due to polluted urban stormwater runoff. This may also in large part be due to salt buildup in surface and groundwater from road maintenance practices.

Specific conductance at all the sites was relatively low. Values below 100 μ S/cm are considered to be low. In the upper part of the Mousam River main stem (Sites MOUR-01, MOUR-02, MOUR-09, MOUR-10), the highest values occurred at Site MOUR-10 with values ranging from 101.8-158.5 μ S/cm. The middle part of the Mousam River main stem (Sites MOUR-03, MOUR-04, MOUR-05) sites were all similar. For the upper branch (Sites MOUSMB-01, MOUSMB-02, LR-01), the highest values occurred at Site MOUSMB-02. LR-01 averaged slightly higher (102.8)readings than the other two sites.

Site	Approved	# of	Minimum	Maximum	Average
	Site	Samples	Value	Value	Value
MOUR-01	Y	9	56.4	63.5	59.3
MOUR-02	Y	9	55.0	61.7	58.9
MOUR-03	Y	7	100.9	129.0	113.4
MOUR-04	Ν	6	70.6	111.1	96.9
MOUR-05	Y	6	82.2	119.3	105.5
MOUR-06	Y				NA-Tidal
MOUR-07	Y				NA-Tidal
MOUR-08	Y				NA-Tidal
MOUR-09	Y	7	79.8	122.5	100.9
MOUR-10	Y	7	101.8	158.5	125.6
LR-01	Y	7	95.0	114.4	102.8
MOUSMB-01	Y	7	60.7	74.3	66.0
MOUSMB-02	Y	7	60.3	138.0	96.2

Table 5-5-5: A summary of minimum, maximum, and average specific conductance (μ S/cm) values for Mousam and Kennebunk Rivers Alliance monitoring sites on the Mousam River.

Bacteria

Escherichia coli bacteria were sampled 4-8 times at eight of the freshwater sites (Table 5-5-6). Enterococcus bacteria were sampled 3-5 times at two of the tidal sites (Table 5-5-6). Monitoring occurred from June through September. Most of the samples were taken during baseflow conditions. Sites MOUR-04, MOUR-06, MOUR-09, and MOUR-10 were sampled once during stormflow conditions. Enterococcus bacteria are used as the indicator organism for marine waters and *E. coli* bacteria are used for freshwaters. While these types of bacteria are not pathogens, their presence in the water may indicate the presence of other organisms including bacteria and viruses that can cause gastrointestinal illnesses.

Class B criteria for bacteria are as follows: "Between May 15th and September 30th, the number of Escherichia Coli of human and domestic origin shall not exceed a geometric mean of 64/100 ml (milliliters) or an instantaneous level of 236/100 ml." Class C criteria are: "Between May 15th and September 30th, the number of Escherichia Coli of human and domestic origin shall not exceed a geometric mean of 126/100 ml (milliliters) or an instantaneous level of 236/100 ml." Class SB criteria are as follows: "Between May 15th and September 30th, the number of Escherichia Coli of human and domestic origin shall not exceed a geometric mean of 126/100 ml (milliliters) or an instantaneous level of 236/100 ml." "Class SB criteria are as follows: "Between May 15th and September 30th, the numbers of enterococcus bacteria of human and domestic animal origin in these waters may not exceed a geometric mean of 8 per 100 milliliters or an instantaneous level of 54 per 100 milliliters." Geometric means are calculated instead of averages because measures like bacteria often have a few very large values that strongly influence the mean and make it a poor predictor.

Site	Bacteria Type	# of Samples	Minimum Value	Maximum Value	Geometric Mean
MOUR-01					Not sampled
MOUR-02					Not sampled
MOUR-03	E. coli	7	5.0	41.0	15.2
MOUR-04	E. coli	6	8.0	31.0	20.7
MOUR-05	E. coli	6	33.2	81.0	52.4
MOUR-06	Enterococcus	5	31.0	160.0	50.9
MOUR-07	Enterococcus	3	<10	85.0	51.3
MOUR-08					Not sampled
MOUR-09	E. coli	7	22.0	411.0	72.3
MOUR-10	E. coli	7	15.0	435.0	39.7
LR-01	E. coli	7	3	276	38.4
MOUSMB-01					Not sampled
MOUSMB-02	E. coli	7	44.0	866.0	163.9

Table 5-5-6: A summary of minimum, maximum, and geometric means for bacteria (MPN/100 mL) values for Mousam and Kennebunk Rivers Alliance monitoring sites on the Mousam River.

In the upper part of the Mousam River main stem (Sites MOUR-01, MOUR-02, MOUR-09, MOUR-10), only sites MOUR-09 and MOUR-10 were sampled. Both sites violated Class C instantaneous standard during a storm event on September 30. In the middle part of the Mousam River main stem (Sites MOUR-03, MOUR-04, MOUR-05) none of the sites violated the Class B criteria. The geometric mean was higher at Site MOUR-05 compared to the other two sites, but still below the criterion. For the tidal sites (MOUR-06, MOUR-07, MOUR-08), only sites MOUR-06 and MOUR-07 were sampled. Site MOUR-06 violated the instantaneous criterion on all five sampling dates and MOUR-07 violated instantaneous criterion on two of three sampling dates.

The geometric mean criterion was not violated on either site, but both values were very close to the criterion. For the upper branch (Sites MOUSMB-01, MOUSMB-02, LR-01) only MOUSMB-02 and LR-01 were sampled for bacteria. Results seemed generally higher than the previous year. Site MOUSMB-02 violated the instantaneous criterion on two days and also exceeded the geometric mean criterion. Site LR-01 exceeded the instantaneous criterion during one storm event on September 30, which was also the date for one of the exceedances for site MOUSMB-02. Typically, observed high bacterial levels are often associated with stormwater runoff and/or combined sewer overflows. Rainfall totals at the nearby Sanford weather station (Figure 5-5-6) show seasonal variations along with sampling dates of monitoring stations on the Kennebunk River.

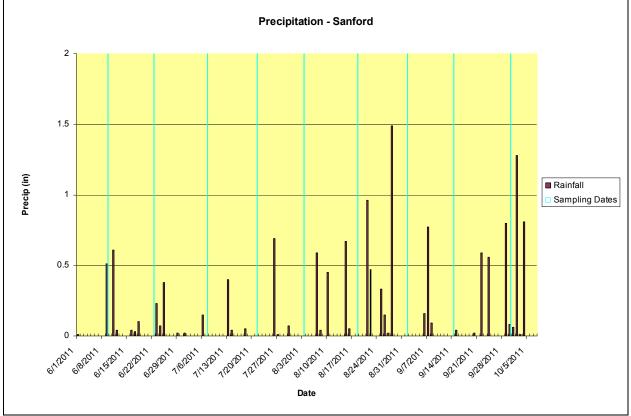


Figure 5-5-6: Seasonal precipitation measured at Sanford.

Discussion and Recommendations

There are numerous sources of pollution and other stresses to the Mousam River and tributary sites monitored by the Mousam and Kennebunk Rivers Alliance that could potentially have an impact on water quality. Some of those sources of pollution and stress may include:

- Non-point source pollution (e.g., septic systems, eroded soil, fertilizers, pesticides, heavy metals, petroleum residues, road salt, wildlife and pet feces) and polluted stormwater originating from urban impervious surfaces (e.g. streets, parking lots, driveways, rooftops) (even though urban development and roads are fairly sparse in the watershed), agriculture, and forestry.
- Point source pollution (pollution originating from a direct discharge including wastewater treatment plant discharge, combined sewer overflows and overboard discharges).
- Ponds and impoundments (which often create more pond-like aquatic habitat conditions that may have higher water temperatures and lower dissolved oxygen concentrations than free-flowing waters)
- Natural effects of wetlands (such as contributing waters to a stream/river that have low dissolved oxygen levels due to the decomposition of larger amounts of organic matter, respiration of abundant plant matter, and low re-aeration rates that is characteristic of many wetlands).

The following are recommendations for future monitoring:

- Dissolved oxygen was low at some of the sites. Site LR-01 should be monitored throughout the season and further investigation made as to whether this is natural. Factors contributing to low dissolved oxygen may include low flow and the site being below extensive wetlands. Occasional mid to late afternoon sampling would help to discriminate whether this is potentially naturally low dissolved oxygen.
- Monitoring should continue to include some early morning (before 8:00 am) sampling to further document potential dissolved oxygen problems. Over a 24 hour period, the lowest readings occur in the early morning and highest readings in mid to late afternoon. This occurs because oxygen is used up during the night due to plant respiration and during the day, plant life is photosynthesizing. This is particularly important during the summer months of July to early September when temperatures are warmest and dissolved oxygen tends to be at the lowest levels.
- Temperature was relatively high in the upper and middle main-stem sites. In the future, we might consider placing temperature loggers at some of these sites to document daily temperature values throughout the season.
- Bacteria sampling showed exceedances at both fresh water and tidal sites. The tidal sites had bacteria violations of both instantaneous criterion and geometric mean criterion. These sites should continue to be monitored and perhaps further investigation made as to the causes of the problem.
- Continue monitoring at all stations to develop a long term trend database.

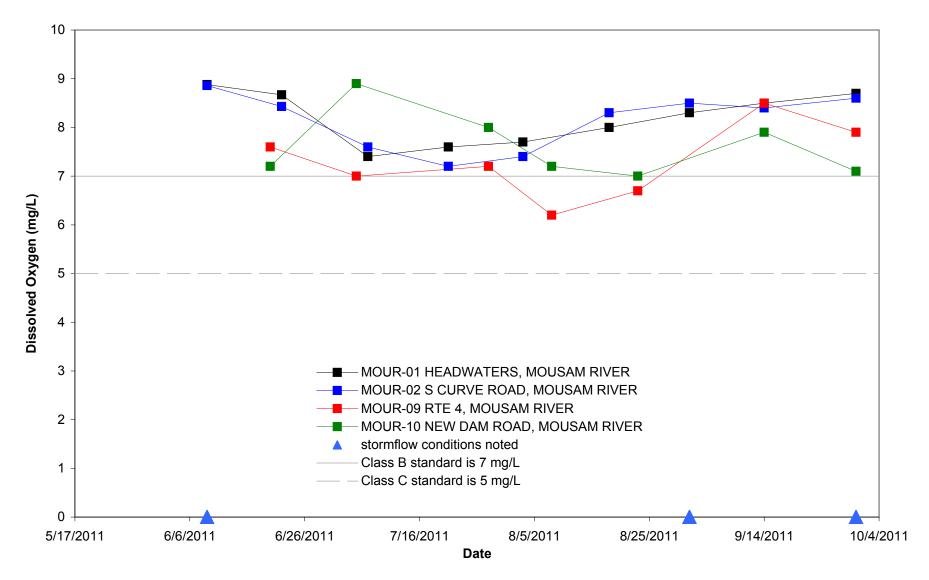


Figure 5-5-7. Dissolved oxygen concentrations at Mousam and Kennebunk River Alliance approved monitoring sites in the upper Mousam River in 2011.

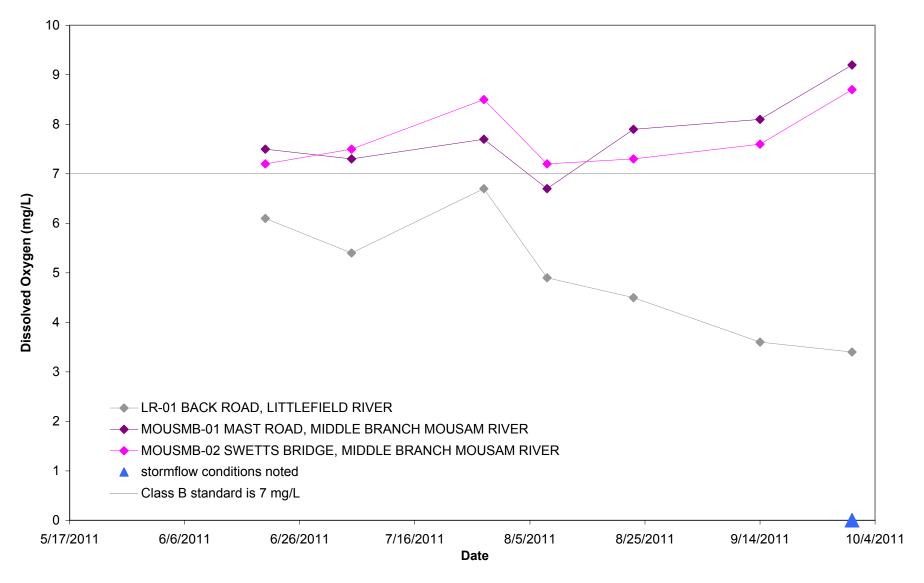


Figure 5-5-8. Dissolved oxygen concentrations at Mousam and Kennebunk River Alliance approved monitoring sites in the upper branch of the Mousam River in 2011.

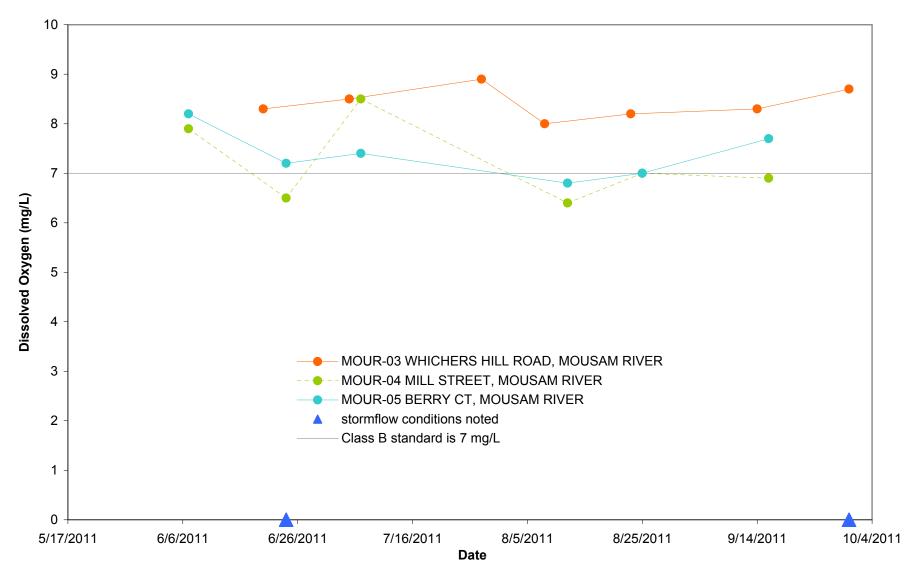


Figure 5-5-9. Dissolved oxygen concentrations at Mousam and Kennebunk River Alliance monitoring sites in the mid-section of the Mousam River in 2011.

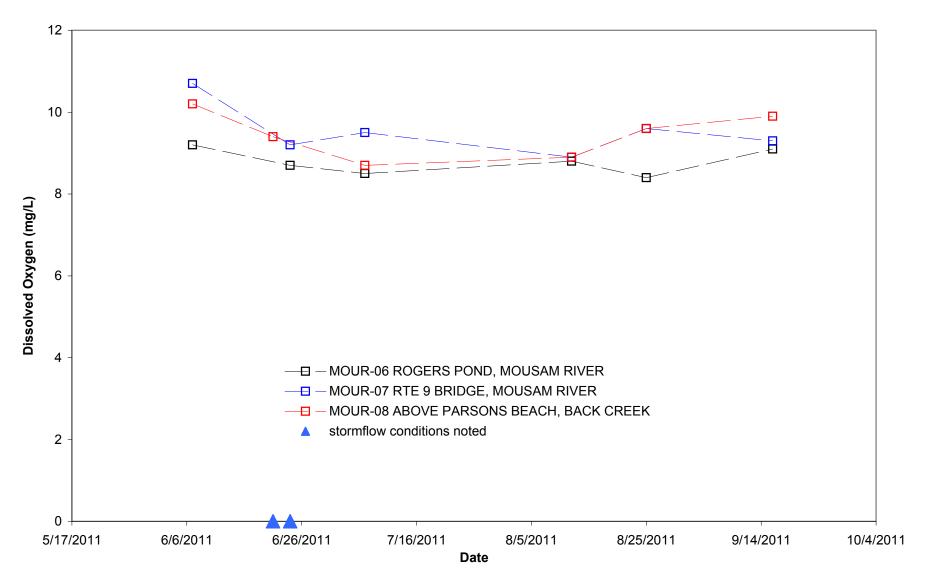


Figure 5-5-10. Dissolved oxygen concentrations at Mousam and Kennebunk River Alliance approved tidal monitoring sites of the Mousam River in 2011.

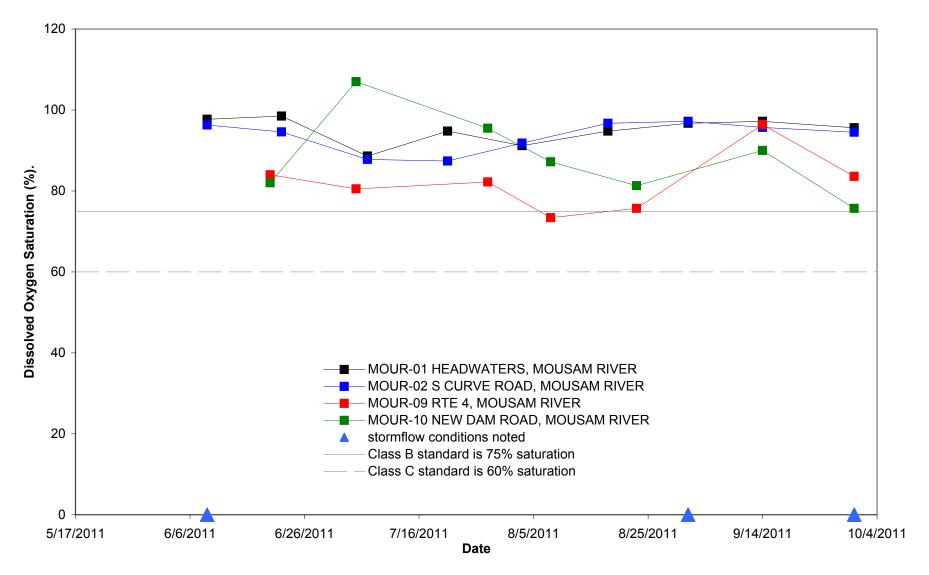


Figure 5-5-11. Dissolved oxygen saturation at Mousam and Kennebunk River Alliance approved monitoring sites in the upper Mousam River in 2011.

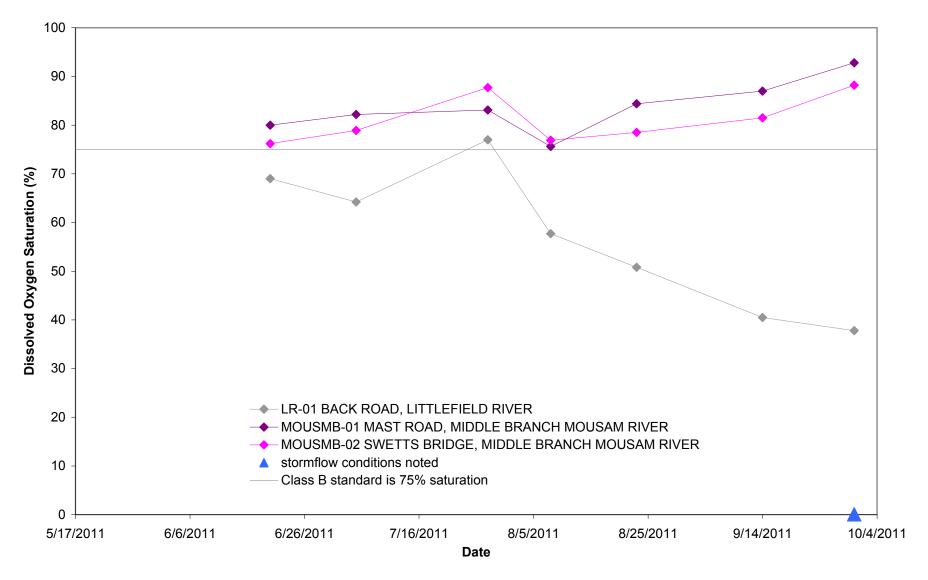


Figure 5-5-12 Dissolved oxygen saturation at Mousam and Kennebunk River Alliance approved monitoring sites in the upper branch of the Mousam River in 2011.

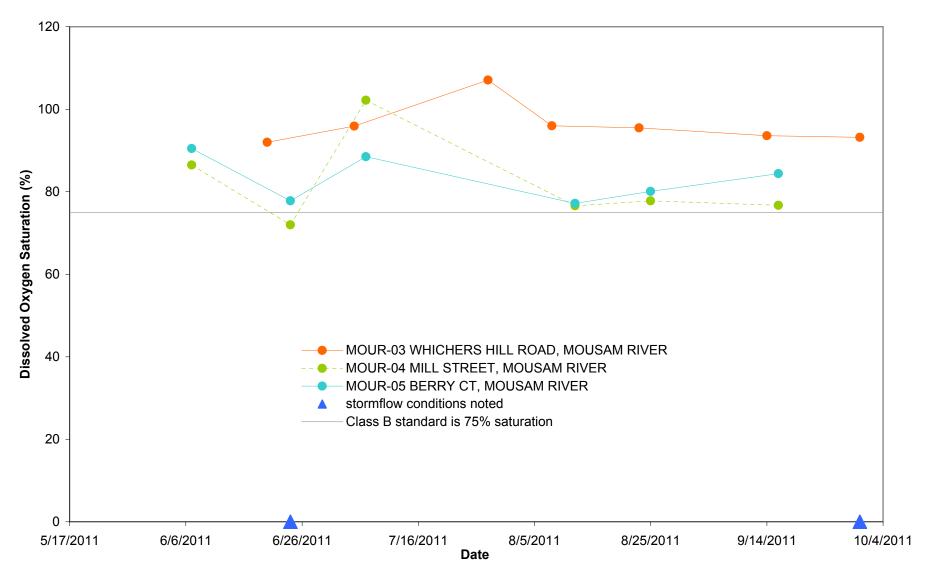


Figure 5-5-13. Dissolved oxygen saturation at Mousam and Kennebunk River Alliance monitoring sites in the midsection of the Mousam River in 2011.

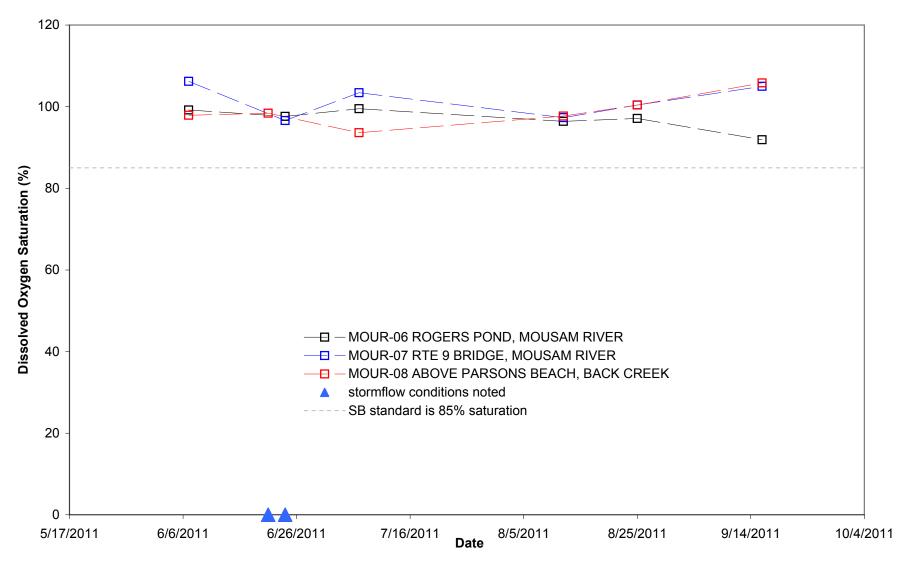


Figure 5-5-14. Dissolved oxygen saturation at Mousam and Kennebunk River Alliance approved tidal monitoring sites of the Mousam River in 2011.

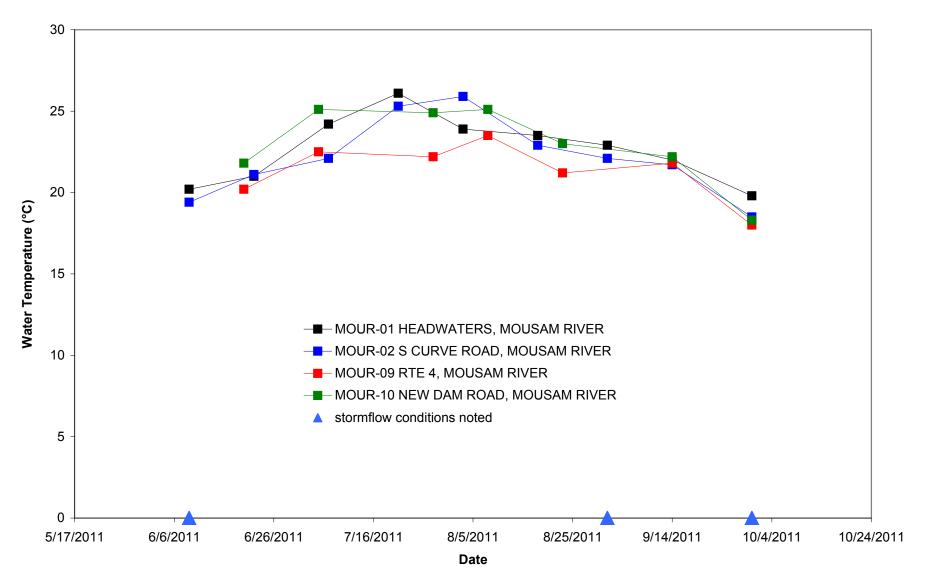


Figure 5-5-15. Water temperature at Mousam and Kennebunk River Alliance approved monitoring sites in the upper Mousam River in 2011.

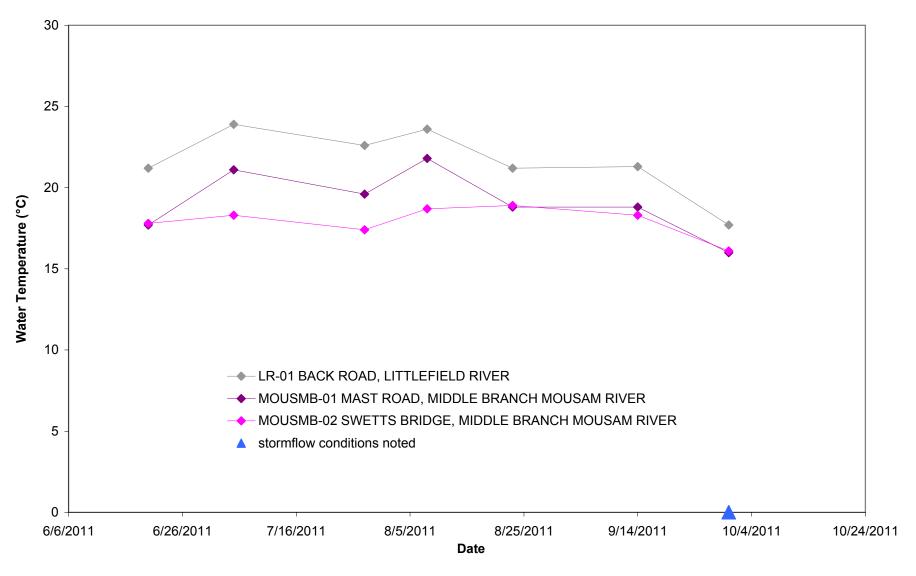


Figure 5-5-16. Water temperature at Mousam and Kennebunk River Alliance approved monitoring sites in the upper branch of the Mousam River in 2011.

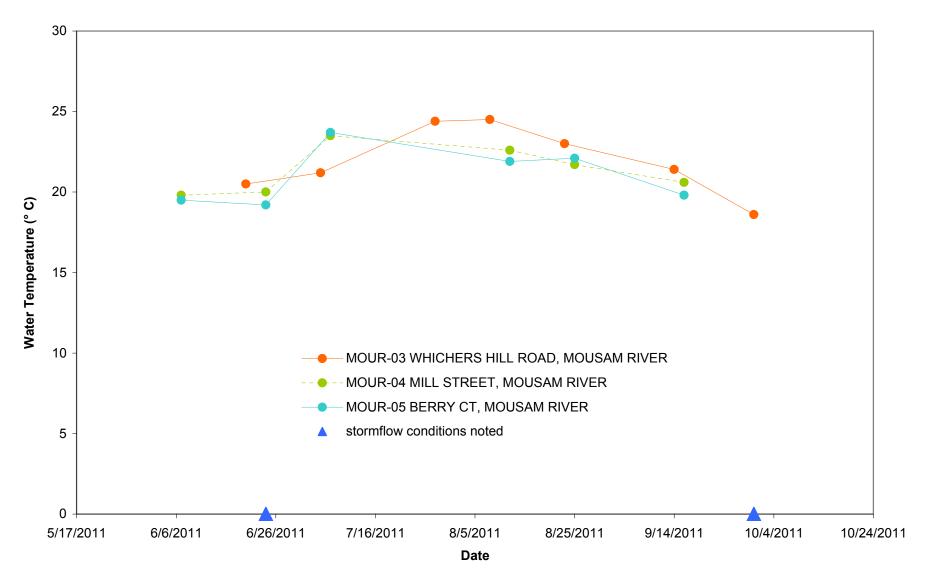


Figure 5-5-17. Water temperature at Mousam and Kennebunk River Alliance monitoring sites in the mid-section of the Mousam River in 2011.

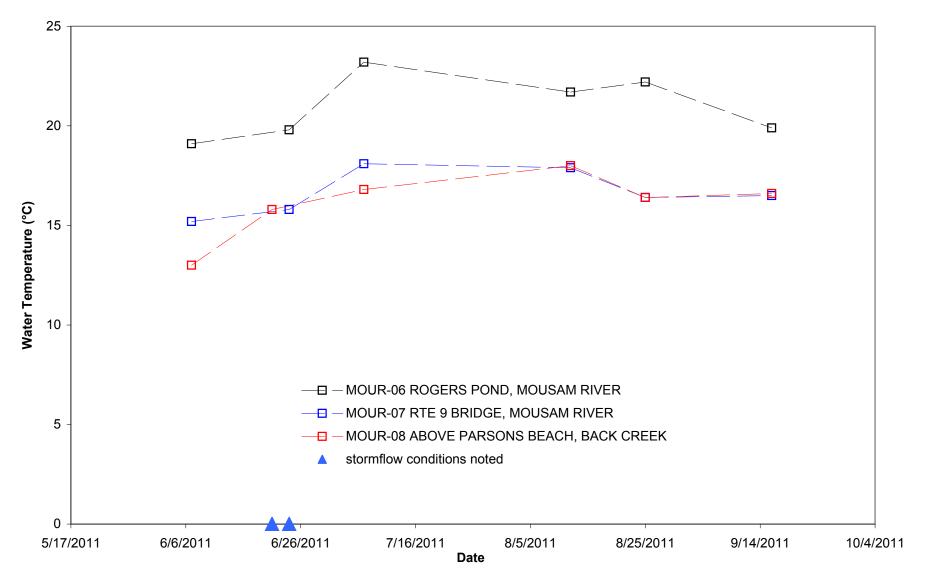


Figure 5-5-18. Water temperature at Mousam and Kennebunk River Alliance approved tidal monitoring sites at Mousam River in 2011.

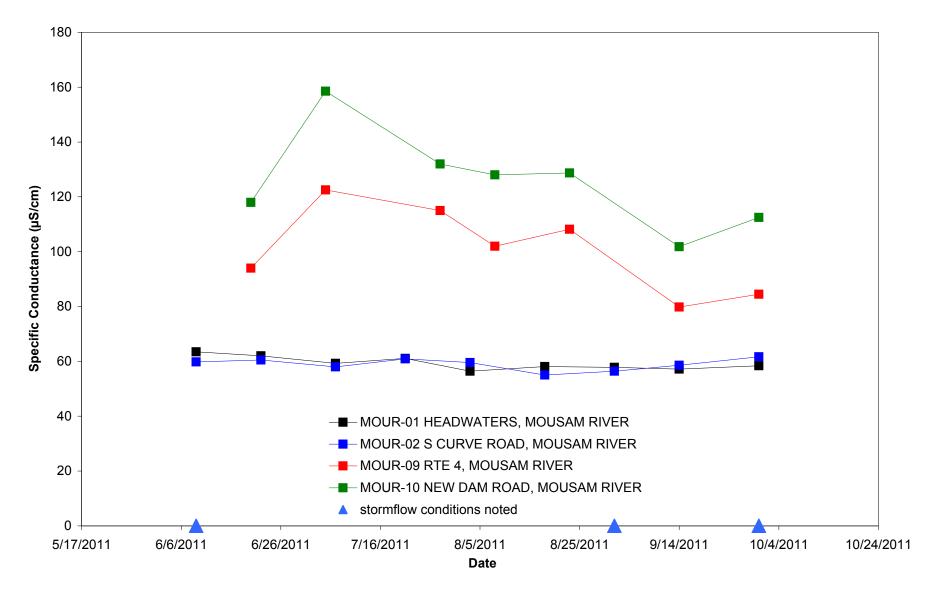


Figure 5-5-19. Specific conductance at Mousam and Kennebunk River Alliance approved monitoring sites in the upper Mousam River in 2011.

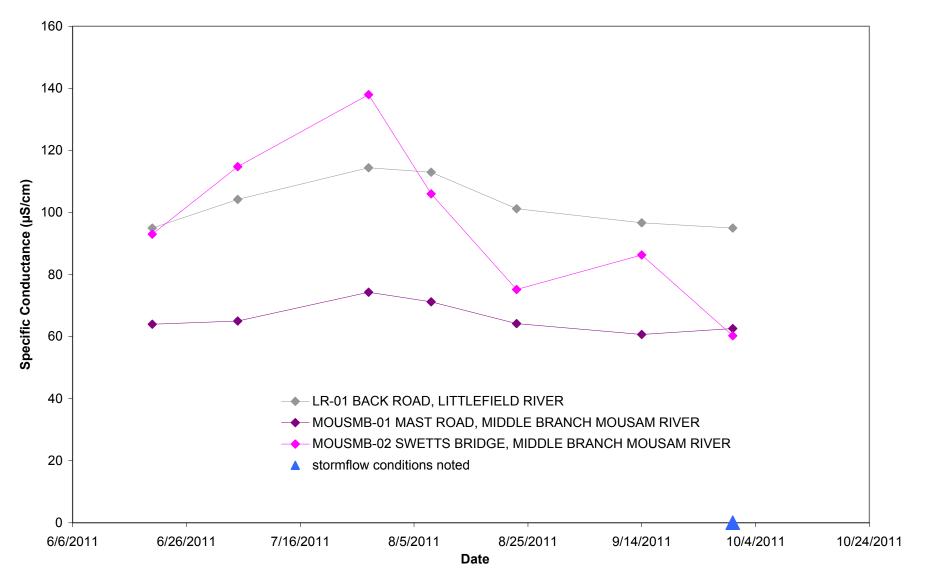


Figure 5-5-20. Specific conductance at Mousam and Kennebunk River Alliance approved monitoring sites in the upper branch of the Mousam River in 2011.

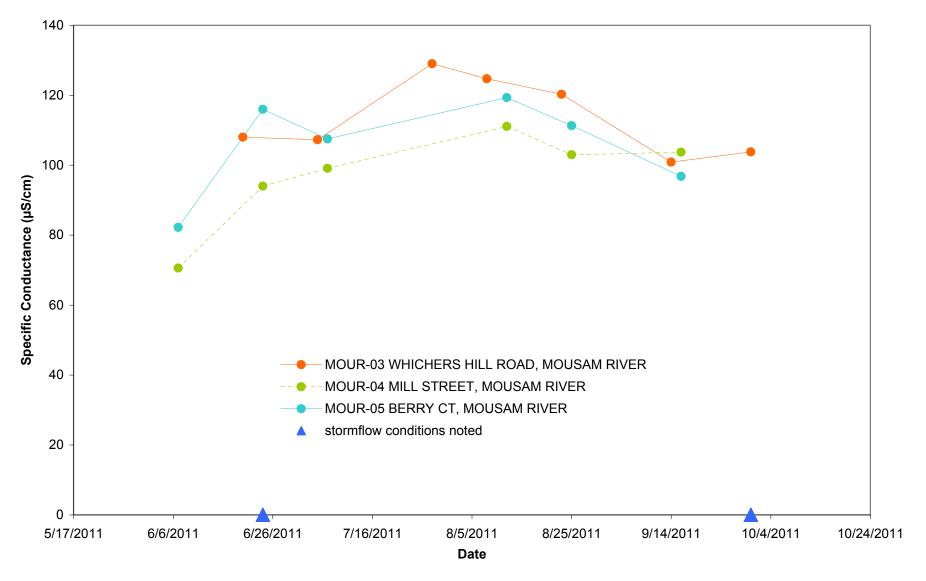


Figure 5-5-21. Specific conductance at Mousam and Kennebunk River Alliance monitoring sites in the midsection of the Mousam River in 2011.

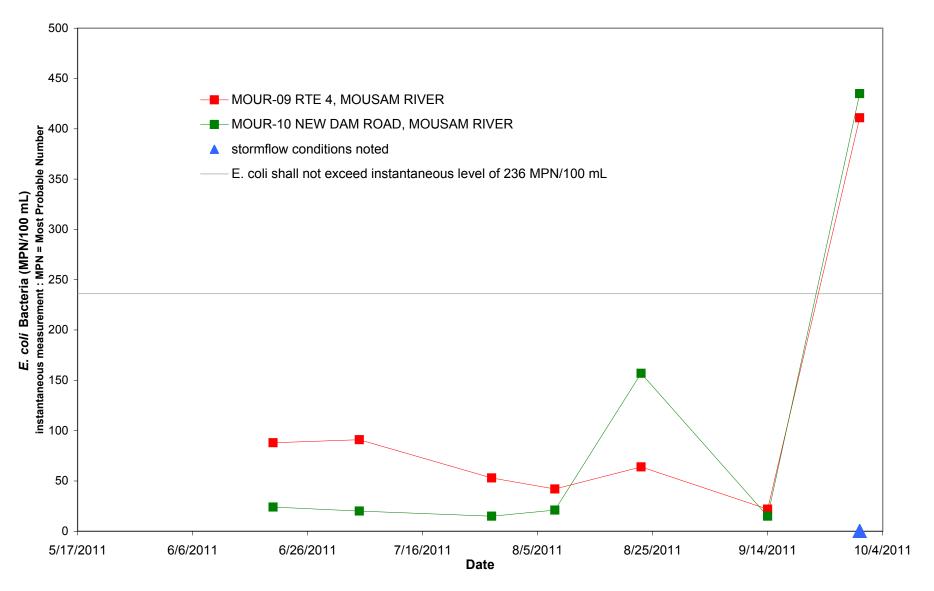


Figure 5-5-22. *E. coli* at Mousam and Kennebunk River Alliance approved monitoring sites in the upper Mousam River in 2011.

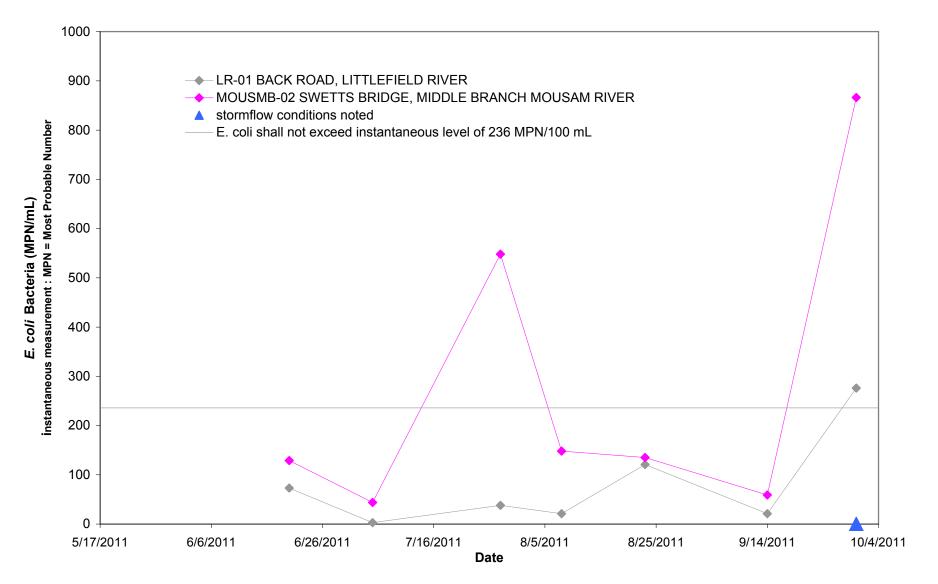


Figure 5-5-23. *E. coli* at Mousam and Kennebunk River Alliance approved monitoring sites in the upper branch of the Mousam River in 2011.

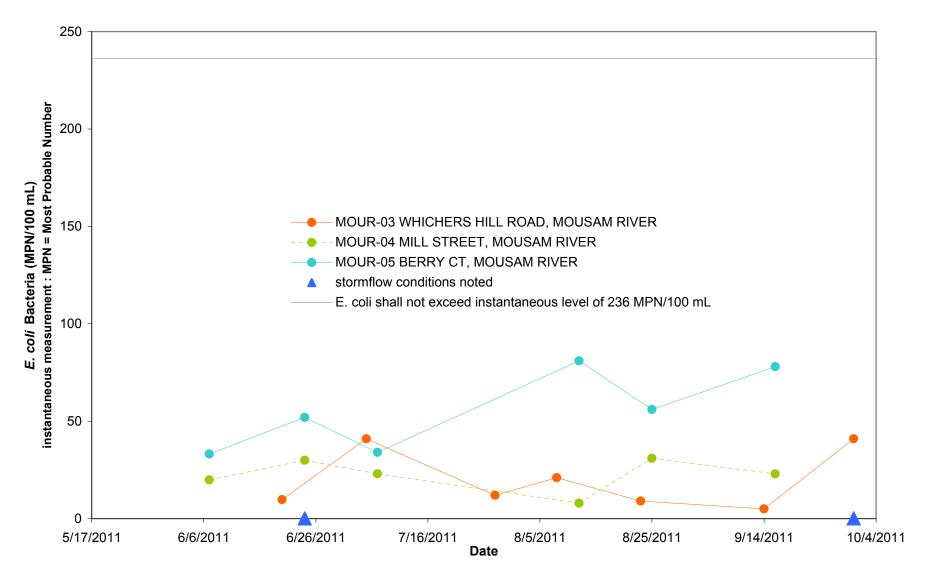


Figure 5-5-24. *E. coli* at Mousam and Kennebunk River Alliance monitoring sites in the mid-section of the Mousam River in 2011.

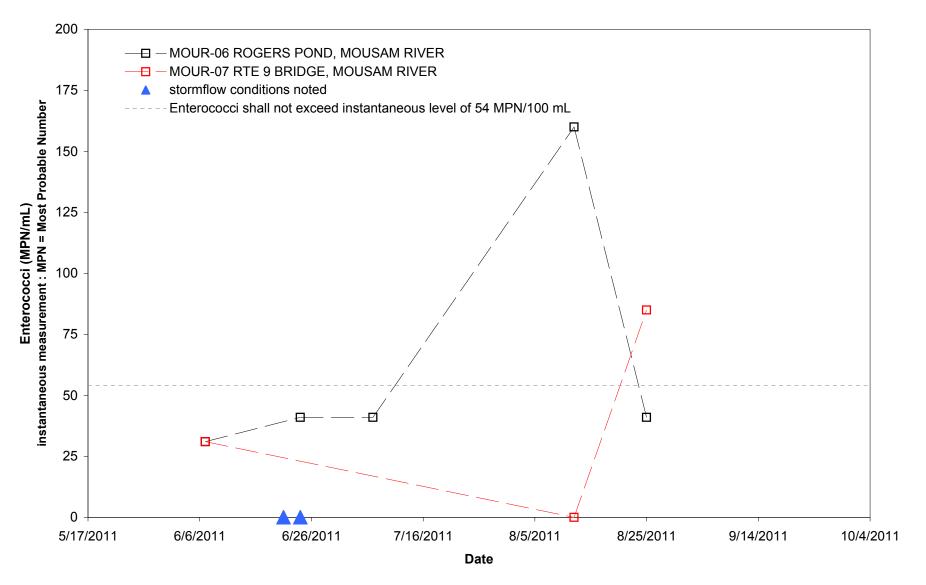


Figure 5-5-25. Enteroccocci at Mousam and Kennebunk River Alliance approved tidal monitoring sites in the Mousam River in 2011.

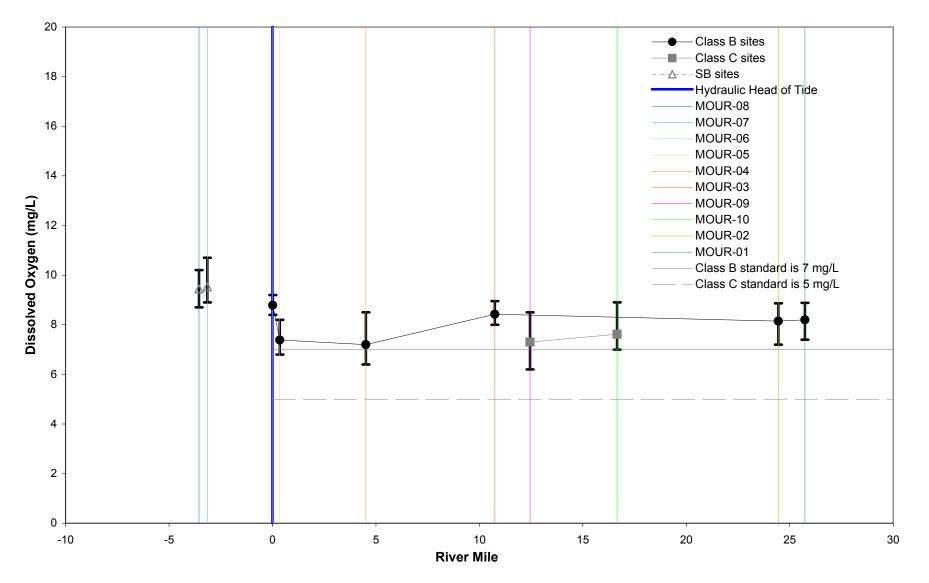


Figure 5-5-26. Dissolved oxygen concentrations, tracked by river mile along the Mousam River in 2011. Points represent mean values, and error bars represent a range of values.

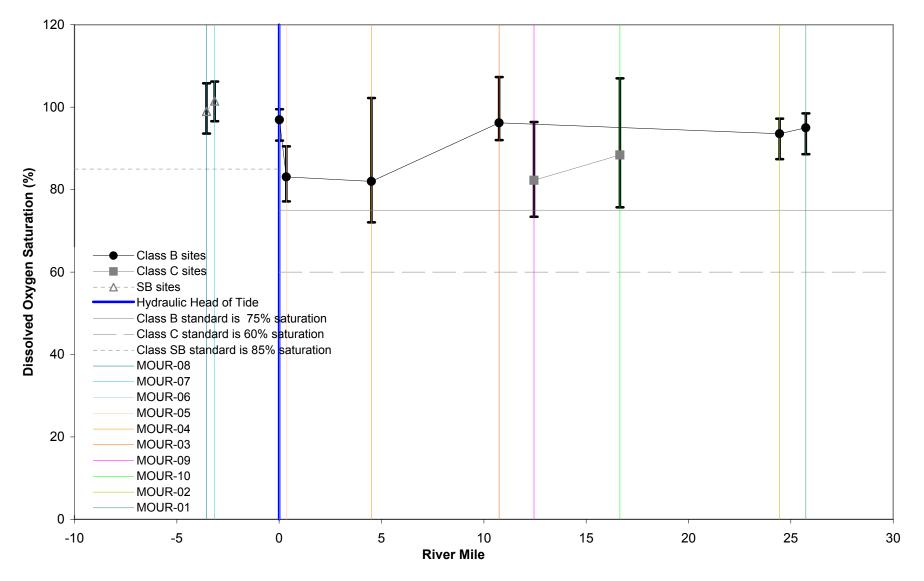


Figure 5-5-27. Dissolved oxygen saturation, tracked by river mile along the Mousam River in 2011. Points represent mean values, and error bars represent a range of values.

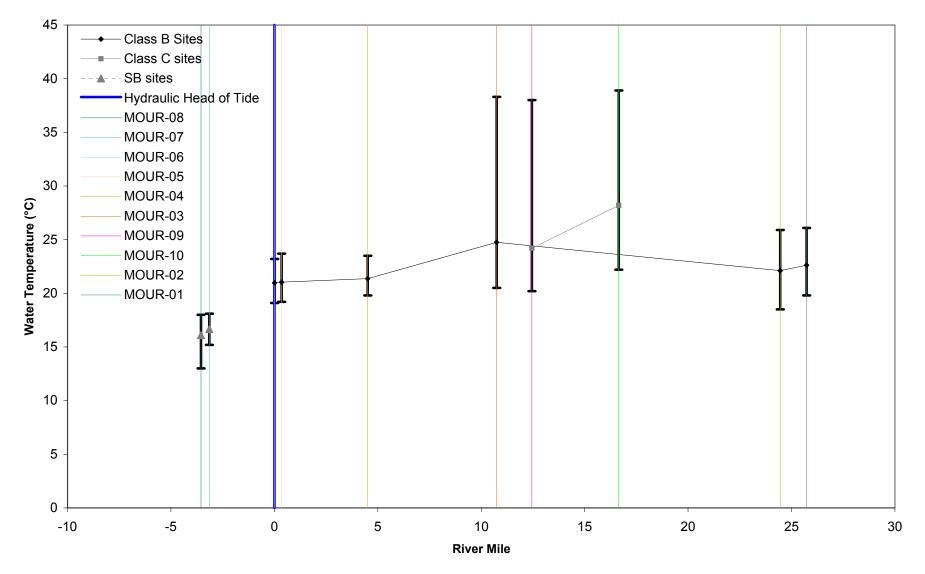


Figure 5-5-28. Water temperature, tracked by river mile along the Mousam River. Points represent mean values, and error bars represent a range of values.

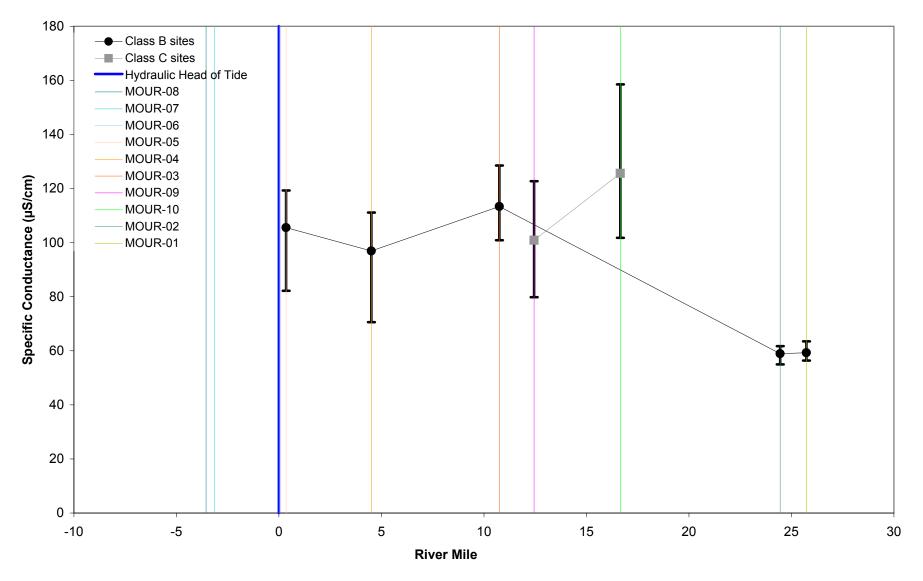


Figure 5-5-29. Specific conductance, tracked by river mile along the Mousam River. Points represent mean values, and error bars represent a range of values.

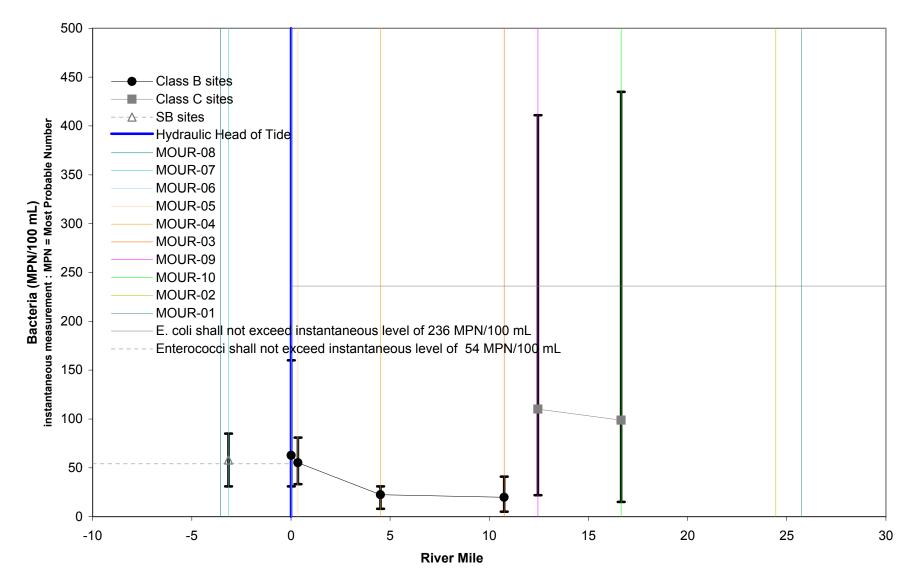


Figure 5-5-30. Bacteria (*E.coci* and Enterococcus) tracked by river mile along the Mousam River. *Points represent geomean values, and error bars represent a range of values.*

Appendix A-1. 2011 water quality data for "Approved" and "Non-Approved" sites. Non-Approved sites do not yet meet official VRMP sample location criteria and/or require further inspection and review.

* Sampling depths are only reported for Tier 1 VRMP sites.

** "N" = normal environmental sample ; "D" = field duplicate; "L" = lab duplicate; "D.O." = dissolved oxygen; "Spec. Cond" = specific conductance; "Turb" = turbidity Refer to Appendix A-2 for observational data and quality assurance/quality control (QA/QC) notes.

Mousam River - Mousam & Kennebunk Rivers Alliance (Approved Sites) LR-01 - BACK LTTLEFIELD RIVER - SMUMBLR18 - 6/20/2011 8:05 AM N 212 69 6.1 95 LR-01 - LITTLEFIELD RIVER - SMUMBLR18 - V 6/20/2011 8:05 AM N 23.9 64.2 5.4 104.2 3 LR-01 LITTLEFIELD RIVER - SMUMBLR18 - V 7/25011 7:33 AM N 23.9 64.2 5.4 104.2 3 LR-01 LITTLEFIELD RIVER - SMUMBLR18 - V 7/25011 7:56 AM N 22.6 77 6.7 114.4 LR-01 LITTLEFIELD RIVER - SMUMBLR18 - V 7/28/2011 7:56 AM N 22.6 77 6.7 114.4 LR-01 LITTLEFIELD RIVER - SMUMBLR18 - V 8/8/2011 7:53 AM N 21.2 50.8 4.5 101.2 121 LR-01 LITTLEFIELD RIVER - SMUMBLR18 - V 9/14/2011 10.49 AM N 21.2 50.8 4.5 101.2 121 LR-01 LITTLEFIELD RIVER - SMUMBLR18 - V 9/30/2011 7:50 AM N 21.2 10.4 5 21 LR-01 LITTLEFIELD RIVER - SMUMBLR18 - V 9/30/2011 7:50 AM N <t< th=""><th>Organization Site Code</th><th>VRMP Site ID</th><th>Date</th><th>Time</th><th>** Sample Type Qualifier</th><th>* Sample Depth</th><th>Depth Unit</th><th>Water Temp (DEG C)</th><th>** D.O. Sat. (%)</th><th>** D.O. (MG/L)</th><th>Spec. Cond. (US/CM)</th><th>Salinity (PPTH)</th><th>E Coli Bacteria (MPN/ 100ML)</th><th>Entero- cocci (MPN/ 100ML)</th></t<>	Organization Site Code	VRMP Site ID	Date	Time	** Sample Type Qualifier	* Sample Depth	Depth Unit	Water Temp (DEG C)	** D.O. Sat. (%)	** D.O. (MG/L)	Spec. Cond. (US/CM)	Salinity (PPTH)	E Coli Bacteria (MPN/ 100ML)	Entero- cocci (MPN/ 100ML)
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HEAD WATERS MOUSAM RIVER - SMU290 - VRMP 6/9/2011 7:40 AM N 20.2 97.7 8.88 63.5 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 6/22/2011 7:45 AM N 21 98.5 8.67 62 62 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 7/7/2011 8:00 AM N 24.2 88.6 7.4 59.3 61.1 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 7/7/21/2011 7:45 AM N 26.1 94.8 7.6 61.1 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 8/3/2011 7:45 AM N 23.9 91.2 7.7 56.4 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 8/3/2011 7:40 AM N 23.9 91.2 7.7 56.4 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 8/18/2011 7:40 AM N 23.9 91.2 7.7 56.4 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/1/2011 7:30 AM N 22.9 96.7 8.3 57.8 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/14/2011 7:30 AM N 22.9 96.7 8.3 57.2 MOUR-01 MOUSA		LITTLEFIELD RIVER - SMUMBLR18 - V	9/30/2011	7:58 AM	N								276	
WATERS MOUSAM RIVER - SMU290 - VRMP 6/9/2011 7:40 AM N 20.2 97.7 8.88 63.5 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 6/22/2011 7:45 AM N 21 98.5 8.67 62 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 7/7/2011 8:00 AM N 24.2 88.6 7.4 59.3 5 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 7/7/21011 7:45 AM N 26.1 94.8 7.6 61.1 61.1 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 8/3/2011 7:45 AM N 23.9 91.2 7.7 56.4 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 8/18/2011 7:40 AM N 23.5 94.8 58.1 65.1 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/1/2011 7:30 AM N 22.9 96.7 8.3 57.8 6 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/1/2011 7:30 AM N 22.9 97.2 8.5 57.2 6 MOUR-01 MOUSAM RIVER - SMU280 - VRMP 9/30/2011 7:45 AM N 19.8 95.6 8.7 58.4 6 <td< td=""><td>MOUR-01 -</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	MOUR-01 -													
MOUR-01 MOUSAM RIVER - SMU290 - VRMP 6/22/2011 7:45 AM N 21 98.5 8.67 62 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 7/7/2011 8:00 AM N 24.2 88.6 7.4 59.3 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 7/21/2011 7:45 AM N 26.1 94.8 7.6 61.1 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 8/3/2011 7:45 AM N 23.9 91.2 7.7 56.4 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 8/3/2011 7:40 AM N 23.5 94.8 8 58.1 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 8/18/2011 7:40 AM N 23.5 94.8 8 58.1 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/1/2011 7:30 AM N 22.9 96.7 8.3 57.8 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/14/2011 7:30 AM N 22 97.2 8.5 57.2 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/30/2011 7:45 AM N 19.8 95.6 8.7 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>														
MOUR-01 MOUSAM RIVER - SMU290 - VRMP 7/7/2011 8:00 AM N 24.2 88.6 7.4 59.3 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 7/21/2011 7:45 AM N 26.1 94.8 7.6 61.1 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 8/3/2011 7:45 AM N 23.9 91.2 7.7 56.4 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 8/3/2011 7:40 AM N 23.9 91.2 7.7 56.4 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 8/18/2011 7:40 AM N 23.5 94.8 8 58.1 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/1/2011 7:30 AM N 22.9 96.7 8.3 57.8 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/14/2011 7:30 AM N 22 97.2 8.5 57.2 96.7 8.3 57.2 96.7 8.3 57.4 96.7 8.4 96.6 8.7 58.4 96.7 56.4 96.7 57.2 96.7 56.7 57.2 96.7 56.7 <	WATERS	MOUSAM RIVER - SMU290 - VRMP	6/9/2011	7:40 AM	N			20.2	97.7	8.88	63.5			
MOUR-01 MOUSAM RIVER - SMU290 - VRMP 7/21/2011 7:45 AM N 26.1 94.8 7.6 61.1 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 8/3/2011 7:45 AM N 23.9 91.2 7.7 56.4 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 8/18/2011 7:40 AM N 23.5 94.8 8 58.1 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/1/2011 7:30 AM N 22.9 96.7 8.3 57.8 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/14/2011 7:30 AM N 22 97.2 8.5 57.2 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/14/2011 7:30 AM N 22 97.2 8.5 57.2 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/30/2011 7:45 AM N 19.8 95.6 8.7 58.4 MOUR-02 - S CURVE ROAD MOUSAM RIVER - SMU280 - VRMP 6/9/2011 8:00 AM N 19.4 96.3 8.86 59.8 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 6/22/2011 7:55 AM N 21.1 94.6	MOUR-01	MOUSAM RIVER - SMU290 - VRMP	6/22/2011	7:45 AM	N			21	98.5	8.67	62			
MOUR-01 MOUSAM RIVER - SMU290 - VRMP 8/3/2011 7:45 AM N 23.9 91.2 7.7 56.4 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 8/18/2011 7:40 AM N 23.5 94.8 8 58.1 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/1/2011 7:30 AM N 22.9 96.7 8.3 57.8 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/14/2011 7:30 AM N 22 97.2 8.5 57.2 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/30/2011 7:45 AM N 19.8 95.6 8.7 58.4 MOUR-02 - S CURVE ROAD MOUSAM RIVER - SMU280 - VRMP 6/9/2011 8:00 AM N 19.4 96.3 8.86 59.8 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 6/9/2011 7:55 AM N 21.1 94.6 8.43 60.5 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/7/2011 8:10 AM N 22.1 87.8 7.6 58 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/7/2011 8:10 AM N 22.1 87.4 7.2 <td>MOUR-01</td> <td>MOUSAM RIVER - SMU290 - VRMP</td> <td>7/7/2011</td> <td>8:00 AM</td> <td>N</td> <td></td> <td></td> <td>24.2</td> <td>88.6</td> <td>7.4</td> <td>59.3</td> <td></td> <td></td> <td></td>	MOUR-01	MOUSAM RIVER - SMU290 - VRMP	7/7/2011	8:00 AM	N			24.2	88.6	7.4	59.3			
MOUR-01 MOUSAM RIVER - SMU290 - VRMP 8/18/2011 7:40 AM N 23.5 94.8 8 58.1 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/1/2011 7:30 AM N 22.9 96.7 8.3 57.8 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/1/2011 7:30 AM N 22 97.2 8.5 57.2 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/30/2011 7:45 AM N 19.8 95.6 8.7 58.4 MOUR-02 - S CURVE ROAD MOUSAM RIVER - SMU280 - VRMP 6/9/2011 8:00 AM N 19.4 96.3 8.86 59.8 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 6/22/2011 7:55 AM N 21.1 94.6 8.43 60.5 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/7/2011 8:10 AM N 21.1 94.6 8.43 60.5 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/7/2011 8:10 AM N 22.1 87.8 7.6 58 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/7/2011 7:55 AM N 25.3 87.4 7.2 60	MOUR-01	MOUSAM RIVER - SMU290 - VRMP	7/21/2011	7:45 AM	Ν			26.1	94.8	7.6	61.1			
MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/1/2011 7:30 AM N 22.9 96.7 8.3 57.8 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/14/2011 7:30 AM N 22 97.2 8.5 57.2 0 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/30/2011 7:45 AM N 19.8 95.6 8.7 58.4 0 MOUR-02 - S CURVE ROAD MOUSAM RIVER - SMU280 - VRMP 6/9/2011 8:00 AM N 19.4 96.3 8.86 59.8 0 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 6/2/2011 7:55 AM N 21.1 94.6 8.43 60.5 0 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/7/2011 8:10 AM N 22.1 87.8 7.6 58 0 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/7/2011 8:10 AM N 22.1 87.8 7.6 58 0 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/21/2011 7:55 AM N 25.3 87.4 7.2 60.9 0 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 8/3/2011 7:55 AM N 25.9 91.8 <td< td=""><td>MOUR-01</td><td>MOUSAM RIVER - SMU290 - VRMP</td><td>8/3/2011</td><td>7:45 AM</td><td>N</td><td></td><td></td><td>23.9</td><td>91.2</td><td>7.7</td><td>56.4</td><td></td><td></td><td></td></td<>	MOUR-01	MOUSAM RIVER - SMU290 - VRMP	8/3/2011	7:45 AM	N			23.9	91.2	7.7	56.4			
MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/14/2011 7:30 AM N 22 97.2 8.5 57.2 MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/30/2011 7:45 AM N 19.8 95.6 8.7 58.4 57.2 MOUR-02 - S CURVE ROAD MOUSAM RIVER - SMU280 - VRMP 6/9/2011 8:00 AM N 19.4 96.3 8.86 59.8 59.8 57.2 56.4 57.2 56.4 57.2 56.4 57.2 5	MOUR-01	MOUSAM RIVER - SMU290 - VRMP	8/18/2011	7:40 AM	Ν			23.5	94.8	8	58.1			
MOUR-01 MOUSAM RIVER - SMU290 - VRMP 9/30/2011 7:45 AM N 19.8 95.6 8.7 58.4 MOUR-02 - S CURVE ROAD MOUSAM RIVER - SMU280 - VRMP 6/9/2011 8:00 AM N 19.4 96.3 8.86 59.8	MOUR-01	MOUSAM RIVER - SMU290 - VRMP	9/1/2011	7:30 AM	Ν			22.9	96.7	8.3	57.8			
MOUR-02 - S CURVE ROAD MOUSAM RIVER - SMU280 - VRMP 6/9/2011 8:00 AM N 19.4 96.3 8.86 59.8 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 6/2/2011 7:55 AM N 21.1 94.6 8.43 60.5 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/7/2011 8:10 AM N 22.1 87.8 7.6 58 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/21/2011 7:55 AM N 25.3 87.4 7.2 60.9 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 8/3/2011 7:55 AM N 25.9 91.8 7.4 59.6 0	MOUR-01	MOUSAM RIVER - SMU290 - VRMP	9/14/2011	7:30 AM	N			22	97.2	8.5	57.2			
CURVE ROAD MOUSAM RIVER - SMU280 - VRMP 6/9/2011 8:00 AM N 19.4 96.3 8.86 59.8 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 6/22/2011 7:55 AM N 21.1 94.6 8.43 60.5 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/7/2011 8:10 AM N 22.1 87.8 7.6 58 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/21/2011 7:55 AM N 25.3 87.4 7.2 60.9 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 8/3/2011 7:55 AM N 25.9 91.8 7.4 59.6	MOUR-01	MOUSAM RIVER - SMU290 - VRMP	9/30/2011	7:45 AM	N			19.8	95.6	8.7	58.4			
CURVE ROAD MOUSAM RIVER - SMU280 - VRMP 6/9/2011 8:00 AM N 19.4 96.3 8.86 59.8 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 6/22/2011 7:55 AM N 21.1 94.6 8.43 60.5 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/7/2011 8:10 AM N 22.1 87.8 7.6 58 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/21/2011 7:55 AM N 25.3 87.4 7.2 60.9 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 8/3/2011 7:55 AM N 25.9 91.8 7.4 59.6	MOUR-02 - S													
MOUR-02 MOUSAM RIVER - SMU280 - VRMP 6/22/2011 7:55 AM N 21.1 94.6 8.43 60.5 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/7/2011 8:10 AM N 22.1 87.8 7.6 58 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/21/2011 7:55 AM N 25.3 87.4 7.2 60.9 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 8/3/2011 7:55 AM N 25.9 91.8 7.4 59.6		MOUSAM RIVER - SMU280 - VRMP	6/9/2011	8.00 AM	N			19.4	96.3	8 86	59.8			
MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/7/2011 8:10 AM N 22.1 87.8 7.6 58 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/21/2011 7:55 AM N 25.3 87.4 7.2 60.9 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 8/3/2011 7:55 AM N 25.9 91.8 7.4 59.6														
MOUR-02 MOUSAM RIVER - SMU280 - VRMP 7/21/2011 7:55 AM N 25.3 87.4 7.2 60.9 MOUR-02 MOUSAM RIVER - SMU280 - VRMP 8/3/2011 7:55 AM N 25.9 91.8 7.4 59.6														
MOUR-02 MOUSAM RIVER - SMU280 - VRMP 8/3/2011 7:55 AM N 25.9 91.8 7.4 59.6										-				
									-					
	MOUR-02 MOUR-02	MOUSAM RIVER - SMU280 - VRMP	8/18/2011					23.9	91.0	8.3	55.0			
MOUR-02 MOUSAM RIVER - SM0280 - VRMP 8/18/2011 7:50 AM D 22.9 96.7 8.4 55														

				** Sample			Water	** D.O.	**	Spec.		E Coli Bacteria	Entero- cocci
Organization				Type	* Sample	Denth	Temp	Sat.	D.O.	Cond.	Salinity	(MPN/	(MPN/
Site Code	VRMP Site ID	Date	Time	Qualifier	Depth	Unit	(DEG C)	(%)	(MG/L)	(US/CM)	(PPTH)	100ML)	100ML)
	MOUSAM RIVER - SMU280 - VRMP	9/1/2011	7:45 AM		Dopti	Onic	22.1	97.2	8.5	56.4	(,	TOOME)	Tooline)
	MOUSAM RIVER - SMU280 - VRMP	9/14/2011	7:45 AM				21.7	95.7	8.4	58.6			
	MOUSAM RIVER - SMU280 - VRMP	9/30/2011	7:55 AM				18.5	94.5	8.6	61.7			
MOUR-03 -										• • • •			
WHICHERS													1
HILL RD	MOUSAM RIVER - SMU144 - VRMP	6/20/2011	9:40 AM	N			20.5	92	8.3	108		9.8	1
MOUR-03	MOUSAM RIVER - SMU144 - VRMP	7/5/2011	9:17 AM	N			21.2	95.9	8.5	107.3			
MOUR-03	MOUSAM RIVER - SMU144 - VRMP	7/5/2011	9:25 AM	N								41	
MOUR-03	MOUSAM RIVER - SMU144 - VRMP	7/28/2011	9:13 AM	N			24.4	107.1	8.9	129		12	
MOUR-03	MOUSAM RIVER - SMU144 - VRMP	7/28/2011	9:13 AM	D			24.4	107.5	9	128			
MOUR-03	MOUSAM RIVER - SMU144 - VRMP	8/8/2011	9:03 AM	N			24.5	96	8	124.7		21	
	MOUSAM RIVER - SMU144 - VRMP	8/23/2011	10:10 AM				23	95.5	8.2	120.3		9	
MOUR-03	MOUSAM RIVER - SMU144 - VRMP	9/14/2011	11:56 AM	N			21.4	93.6	8.3	100.9			
MOUR-03	MOUSAM RIVER - SMU144 - VRMP	9/14/2011	11:57 AM	N								5	
MOUR-03	MOUSAM RIVER - SMU144 - VRMP	9/30/2011	8:57 AM				18.6	93.2	8.7	103.8			
	MOUSAM RIVER - SMU144 - VRMP	9/30/2011	8:58 AM	Ν								41	
MOUR-05 -													
	MOUSAM RIVER - SMU39 - VRMP	6/7/2011	8:00 AM				19.5	90.5	8.2	82.2		33.2	
	MOUSAM RIVER - SMU39 - VRMP	6/24/2011	8:50 AM	Ν								52	
	MOUSAM RIVER - SMU39 - VRMP	6/24/2011	8:55 AM				19.2	77.8	7.2	116			
	MOUSAM RIVER - SMU39 - VRMP	7/7/2011	8:45 AM				23.7	88.5	7.4	107.5		34	
	MOUSAM RIVER - SMU39 - VRMP	7/7/2011	8:45 AM							108			
	MOUSAM RIVER - SMU39 - VRMP	8/12/2011	8:35 AM				21.9	77.2	6.8	119.3			
	MOUSAM RIVER - SMU39 - VRMP	8/12/2011	8:35 AM				21.9	77.1	6.8				
	MOUSAM RIVER - SMU39 - VRMP	8/12/2011	8:50 AM									81	
	MOUSAM RIVER - SMU39 - VRMP	8/25/2011	8:30 AM				22.1	80.1	7	111.3			
	MOUSAM RIVER - SMU39 - VRMP	8/25/2011	8:30 AM							111.5			
	MOUSAM RIVER - SMU39 - VRMP	8/25/2011	8:40 AM									56	
	MOUSAM RIVER - SMU39 - VRMP	8/25/2011	8:40 AM									50	
	MOUSAM RIVER - SMU39 - VRMP	9/16/2011	1:35 PM									78	
	MOUSAM RIVER - SMU39 - VRMP	9/16/2011	1:45 PM	Ν			19.8	84.4	7.7	96.8			
MOUR-06 -													1
ROGERS		0/7/0044					10.4						
POND	MOUSAM RIVER - SMU35 - VRMP	6/7/2011	7:40 AM				19.1	99.2	9.2	91.1			31
	MOUSAM RIVER - SMU35 - VRMP	6/24/2011	8:30 AM				19.8	97.6	8.7	110.7			41
MOUR-06	MOUSAM RIVER - SMU35 - VRMP	7/7/2011	8:20 AM				23.2	99.5	8.5	109.6			41
	MOUSAM RIVER - SMU35 - VRMP	8/12/2011	9:00 AM				21.7	96.4	8.8	124			100
	MOUSAM RIVER - SMU35 - VRMP	8/12/2011	9:10 AM				00.0	07.4	0.1	110.0			160
	MOUSAM RIVER - SMU35 - VRMP	8/25/2011	8:50 AM				22.2	97.1	8.4	110.6			14
	MOUSAM RIVER - SMU35 - VRMP	8/25/2011	9:00 AM				40.0	04.0	0.4	00.0			41
MOUR-06	MOUSAM RIVER - SMU35 - VRMP	9/16/2011	2:10 PM	N			19.9	91.9	9.1	96.8			

				tt Oamala			Mater	**	**	0		E Coli	Entero-
Organization				** Sample	* Comula	Danth	Water	D.O. Sat.	D.O.	Spec. Cond.	Colinity	Bacteria (MPN/	COCCI
Organization Site Code	VRMP Site ID	Date	Time	Type Qualifier	* Sample Depth	Depth Unit	Temp (DEG C)	Sat. (%)	(MG/L)	(US/CM)	Salinity (PPTH)	(MPN/ 100ML)	(MPN/ 100ML)
	VRWF Site ID	Date	TIME	Quaimer	Deptil	Unit	(DEG C)	(/0)			(FFIN)		
MOUR-07 -		0/7/00/14					45.0	100.0	40 7				
	MOUSAM RIVER - SMU04 - VRMP	6/7/2011	7:15 AM				15.2	106.2	10.7				31
	MOUSAM RIVER - SMU04 - VRMP	6/24/2011	8:10 AM				15.8	96.6	9.2				ļ
	MOUSAM RIVER - SMU04 - VRMP	7/7/2011	8:00 AM				18.1	103.4	9.5				
	MOUSAM RIVER - SMU04 - VRMP	8/12/2011	9:20 AM				17.9	97.3	8.9				
	MOUSAM RIVER - SMU04 - VRMP	8/12/2011	9:30 AM				10.4	400.4	0.0				U<10
	MOUSAM RIVER - SMU04 - VRMP	8/25/2011	9:25 AM				16.4	100.4	9.6				
	MOUSAM RIVER - SMU04 - VRMP	8/25/2011	9:30 AM				10.5	405	0.0				85
	MOUSAM RIVER - SMU04 - VRMP	9/16/2011	2:35 PM	N			16.5	105	9.3				ļ
MOUR-08 -													1
PARSONS		0/7/00/14					10	07.0	40.0				1
	BACK CREEK - SMUBC02 - VRMP	6/7/2011	7:00 AM				13	97.9	10.2				
	BACK CREEK - SMUBC02 - VRMP	6/21/2011	7:50 AM				15.8	98.4	9.4				
	BACK CREEK - SMUBC02 - VRMP	7/7/2011	7:40 AM				16.8	93.6	8.7				
	BACK CREEK - SMUBC02 - VRMP	8/12/2011	9:45 AM				18	97.7	8.9				
MOUR-08	BACK CREEK - SMUBC02 - VRMP	8/25/2011	9:40 AM				16.4	100.4	9.6				
	BACK CREEK - SMUBC02 - VRMP	9/16/2011	2:55 PM	Ν			16.6	105.8	9.9				
MOUR-09 -													1
	MOUSAM RIVER - SMU163 - VRMP	6/20/2011	9:01 AM				20.2	84	7.6	-		88	
	MOUSAM RIVER - SMU163 - VRMP	7/5/2011	8:35 AM				22.5	80.5	7	122.5			ļ
	MOUSAM RIVER - SMU163 - VRMP	7/5/2011	8:35 AM				22.4	80.4	7	122.9			ļ
	MOUSAM RIVER - SMU163 - VRMP	7/5/2011	8:42 AM									91	ļ
	MOUSAM RIVER - SMU163 - VRMP	7/28/2011	8:44 AM				22.2	82.2	7.2	115		53	
	MOUSAM RIVER - SMU163 - VRMP	8/8/2011	8:25 AM				23.5	73.4	6.2	102		42	
	MOUSAM RIVER - SMU163 - VRMP	8/23/2011	9:39 AM				21.2	75.7	6.7	108.2		64	
	MOUSAM RIVER - SMU163 - VRMP	8/23/2011	9:39 AM				21.2	75.8	6.7	107.9			
	MOUSAM RIVER - SMU163 - VRMP	9/14/2011	11:27 AM				21.8	96.4	8.5	79.8		22	
	MOUSAM RIVER - SMU163 - VRMP	9/30/2011	8:29 AM									411	
MOUR-09	MOUSAM RIVER - SMU163 - VRMP	9/30/2011	8:30 AM	N			18	83.6	7.9	84.5			
MOUR-10 -													1
NEW DAM RD	MOUSAM RIVER - SMU204 - VRMP	6/20/2011	9:22 AM	Ν			21.8	82	7.2	118		24	1
	MOUSAM RIVER - SMU204 - VRMP	7/5/2011	9:06 AM				25.1	107	8.9	158.5		20	
	MOUSAM RIVER - SMU204 - VRMP	7/28/2011	9:00 AM				24.9	95.5	8				
	MOUSAM RIVER - SMU204 - VRMP	7/28/2011	9:03 AM	Ν								15	
	MOUSAM RIVER - SMU204 - VRMP	7/28/2011	9:03 AM									20	
	MOUSAM RIVER - SMU204 - VRMP	8/8/2011	8:50 AM				25.1	87.2	7.2	128		21	
	MOUSAM RIVER - SMU204 - VRMP	8/8/2011	8:50 AM					. –				25	
	MOUSAM RIVER - SMU204 - VRMP	8/23/2011	9:55 AM				23	81.3	7	128.7		157	
	MOUSAM RIVER - SMU204 - VRMP	9/14/2011	11:40 AM							.=		15	
	MOUSAM RIVER - SMU204 - VRMP	9/14/2011	11:42 AM				22.2	90	7.9	101.8			
	MOUSAM RIVER - SMU204 - VRMP	9/30/2011	8:43 AM				18.3	75.7	7.1	112.5			
	MOUSAM RIVER - SMU204 - VRMP	9/30/2011	8:46 AM									435	

Organization		Defe	Time	** Sample Type	* Sample	-	Water Temp	** D.O. Sat.	** D.O.	Spec. Cond.	Salinity	E Coli Bacteria (MPN/	Entero- cocci (MPN/
Site Code MOUSMB-01 -	VRMP Site ID	Date	Time	Qualifier	Depth	Unit	(DEG C)	(%)	(MG/L)	(US/CM)	(PPTH)	100ML)	100ML)
	MIDDLE BRANCH MOUSAM RIVER - S	6/20/2011	0.07 AM	NI			17.7	00	7 5	64			
			8:27 AM					80	7.5	64			
MOUSMB-01	MIDDLE BRANCH MOUSAM RIVER - S	7/5/2011	7:58 AM				21.1	82.2	7.3 7.7	65			
MOUSMB-01	MIDDLE BRANCH MOUSAM RIVER - S	7/28/2011	8:12 AM				19.6	83.1		74.3			
MOUSMB-01	MIDDLE BRANCH MOUSAM RIVER - S	8/8/2011	8:09 AM				21.8	75.6	6.7 6.7	71.2 70.1			
MOUSMB-01 MOUSMB-01	MIDDLE BRANCH MOUSAM RIVER - S MIDDLE BRANCH MOUSAM RIVER - S	8/8/2011	8:09 AM				21.8	76.7					
MOUSMB-01 MOUSMB-01	MIDDLE BRANCH MOUSAM RIVER - S MIDDLE BRANCH MOUSAM RIVER - S	8/23/2011 9/14/2011	9:10 AM				18.8	84.4 87	7.9 8.1	64.2			
		9/14/2011 9/30/2011	11:04 AM				18.8 16	-	8.1 9.2	60.7			
MOUSMB-01 MOUSMB-02 -	MIDDLE BRANCH MOUSAM RIVER - S	9/30/2011	8:06 AM	IN			10	92.8	9.2	62.6			
SWETTS		0/00/0044	0.40 414	NI			17.0	70.0	7.0	00			
	MIDDLE BRANCH MOUSAM RIVER - S	6/20/2011	8:40 AM				17.8	76.2	7.2	93		100	
MOUSMB-02	MIDDLE BRANCH MOUSAM RIVER - S	6/20/2011	8:42 AM				40.0	70.0	7 5	444.0		129	
MOUSMB-02	MIDDLE BRANCH MOUSAM RIVER - S		8:21 AM				18.3	78.9	7.5	114.8		44	
MOUSMB-02	MIDDLE BRANCH MOUSAM RIVER - S	7/28/2011	8:28 AM				474	077	0.5	400		548	
MOUSMB-02 MOUSMB-02	MIDDLE BRANCH MOUSAM RIVER - S MIDDLE BRANCH MOUSAM RIVER - S	7/28/2011	8:33 AM 8:21 AM				17.4 18.7	87.7	8.5 7.2	138 106			
MOUSMB-02 MOUSMB-02	MIDDLE BRANCH MOUSAM RIVER - S MIDDLE BRANCH MOUSAM RIVER - S	8/8/2011 8/8/2011					10.7	76.9	1.2	100		140	
MOUSMB-02 MOUSMB-02		0.0.20.1	8:24 AM 9:22 AM				10.0	70 F	7 0	75.0		148 135	
	MIDDLE BRANCH MOUSAM RIVER - S	8/23/2011 9/14/2011					18.9	78.5		75.2		135	
MOUSMB-02	MIDDLE BRANCH MOUSAM RIVER - S		11:13 AM				18.3	81.5	7.6	86.3		50	
MOUSMB-02	MIDDLE BRANCH MOUSAM RIVER - S	9/14/2011	11:15 AM				10.4	00.0	0.7	<u> </u>		59	
MOUSMB-02	MIDDLE BRANCH MOUSAM RIVER - S	9/30/2011	8:15 AM				16.1	88.2	8.7	60.3		000	
MOUSMB-02	MIDDLE BRANCH MOUSAM RIVER - S	9/30/2011	8:17 AM	IN								866	

Mousam River	- Mousam & Kennebunk Rivers Allia	nce (Non-appr	oved Sites	5)	<u> </u>						
MOUR-04 -											
MILL STREET	MOUSAM RIVER - SMU80 - KMA	6/7/2011	8:35 AM	Ν		19.8	86.5	7.9	70.6	19.9	
MOUR-04	MOUSAM RIVER - SMU80 - KMA	6/24/2011	9:20 AM	Ν		20	72	6.5	94	30	
MOUR-04	MOUSAM RIVER - SMU80 - KMA	6/24/2011	9:20 AM	D		20	72.1	6.5			
MOUR-04	MOUSAM RIVER - SMU80 - KMA	7/7/2011	9:05 AM	Ν		23.5	102.2	8.5	99.1	23	
MOUR-04	MOUSAM RIVER - SMU80 - KMA	8/12/2011	8:10 AM	Ν		22.6	76.6	6.4	111.1		
MOUR-04	MOUSAM RIVER - SMU80 - KMA	8/12/2011	8:20 AM	Ν						8	
MOUR-04	MOUSAM RIVER - SMU80 - KMA	8/25/2011	8:10 AM	Ν		21.7	77.8	7	103		
MOUR-04	MOUSAM RIVER - SMU80 - KMA	8/25/2011	8:15 AM	Ν						31	
MOUR-04	MOUSAM RIVER - SMU80 - KMA	9/16/2011	1:30 PM	Ν		20.6	76.7	6.9	103.7		
MOUR-04	MOUSAM RIVER - SMU80 - KMA	9/16/2011	1:35 PM	Ν						23	

Appendix A-2. 2011 observational data and quality assurance/quality control (QA/QC) notes for "approved" and "non-approved" sites. ** "N" = normal environmental sample; "D" = field duplicate; "L" = lab duplicate; "D.O." = dissolved oxygen; "Spec. Cond" = specific conductance; "Turb"= turbidity Refer to Appendix A-1 for water quality data

Organization				** Sample Type			Air Temp	Sample	Current	Air Cond			Tide	Water Appear-	
Site Code	VRMP Site ID	Date	Time	Qualifier	Flow	Stage	(° C)	Location	Weather	ition	Past 24HR Weather	Habitat	Stage	ance	Comments
Mousam River	- Mousam & Kennebur	nk Rivers Alli	ance (Ann	roved Sites											
					Í	1									
LR-01 BACK ROAD	LITTLEFIELD RIVER -	6/20/2011	8:05 AM	N	BASE FLOW	MEDIU M	13.3	BRIDGE	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
	LITTLEFIELD RIVER -	6/20/2011	8:10 AM												
LR-01	LITTLEFIELD RIVER -	7/5/2011	7:43 AM	N	BASE FLOW	LOW	17.8	BRIDGE	CLEAR	CALM	PARTLY CLOUDY	RUN		CLEAR	NON-WADEABLE/MID-DEPTH
					BASE										HEAVY RAIN 7/26 IN EARLY EVENING NON-
LR-01 LR-01	LITTLEFIELD RIVER - LITTLEFIELD RIVER -	7/28/2011 7/28/2011	7:56 AM		FLOW	LOW	16.1	BRIDGE	CLEAR	CALM	PARTLY CLOUDY	RUN		CLEAR	WADEABLE/MID-DEPTH
LR-01	LITTLEFIELD RIVER -	7/28/2011	7:59 AM	N	BASE	MEDIU					LIGHT RAIN,			MEDIUM	
LR-01	LITTLEFIELD RIVER -	8/8/2011	7:51 AM	N	FLOW		21.1	BRIDGE	CLOUDY	CALM	MOSTLY CLOUDY	RUN			NON-WADEABLE/MID-DEPTH
LR-01	LITTLEFIELD RIVER -	8/8/2011	7:53 AM	Ν											
LR-01	LITTLEFIELD RIVER -	8/23/2011	8:57 AM	N	FLOW		14.4	BRIDGE	CLEAR	CALM	CLEAR	RUN		STAINED	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET
1.5.4		0/1 //00/14				MEDIU			MOSTLY						NON-WADEABLE/MID-DEPTH DID NOT COMPLETE
LR-01 LR-01	LITTLEFIELD RIVER - LITTLEFIELD RIVER -	9/14/2011 9/14/2011	10:49 AM 10:53 AM		FLOW	M	22.2	BRIDGE	CLOUDY	BREEZE	PARTLY CLOUDY	RUN		STAINED	CHAIN OF CUSTODY FOR DATASHEET
		3/14/2011	10.33 AM		STRM				PARTLY					MEDIUM	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE
LR-01	LITTLEFIELD RIVER -	9/30/2011	7:50 AM	N	FLOW	HIGH	14.4	BRIDGE	CLOUDY	CALM	HEAVY RAIN	RUN		STAINED	CHAIN OF CUSTODY FOR DATASHEET
LR-01	LITTLEFIELD RIVER -	9/30/2011	7:50 AM					BRIDGE							NON-WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET
	LITTLEFIELD RIVER -	9/30/2011	7:58 AM	Ν											
MOUR-01 HEAD					STRM				CLOUDY, LIGHT		HEAVY RAIN, LIGHT RAIN,			MEDIUM	
	MOUSAM RIVER - SM	6/9/2011	7:40 AM	N	FLOW	HIGH	18.9	BANK	RAIN	CALM	SHOWERS	RUN		_	NON-WADEABLE/MID-DEPTH
		0.0.2011		1		MEDIU		2,		0, 1211				MEDIUM	
MOUR-01	MOUSAM RIVER - SM	6/22/2011	7:45 AM	Ν	FLOW			BANK	CLEAR		CLEAR	RUN			NON-WADEABLE/3 FT BELOW SURFACE
MOUR-01	MOUSAM RIVER - SM	7/7/2011	8:00 AM	N	BASE FLOW	MEDIU M	22.2	BANK	CLEAR	CALM	CLEAR, LIGHT RAIN	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
		7/01/0011	7.45 AM	N		MEDIU	24.4	DANK		CALM		DUN		MEDIUM	
MOUR-01	MOUSAM RIVER - SM	7/21/2011	7:45 AM		FLOW	IVI	24.4	BANK	CLEAR	CALM	CLEAR CLEAR, CLOUDY,	RUN		STAINED	NON-WADEABLE/MID-DEPTH
					BASE				PARTLY		HEAVY RAIN,			MEDIUM	
MOUR-01	MOUSAM RIVER - SM	8/3/2011	7:45 AM	N	FLOW	LOW	21.1	BANK	CLOUDY	BREEZE	SHOWERS	RUN			NON-WADEABLE/3 FT BELOW SURFACE
MOUR-01	MOUSAM RIVER - SM	8/18/2011	7:40 AM	N	BASE FLOW	LOW	18.3	BANK	CLEAR		CLEAR	RUN			NON-WADEABLE/3 FT BELOW SURFACE
		0/1/2011	7.00 414	N	STRM		20.0		PARTLY	CALM	CLEAR, PARTLY	DUN		MEDIUM	
MOUR-01	MOUSAM RIVER - SM	9/1/2011	7:30 AM	N	FLOW	MEDIU	20.0	BANK	CLOUDY	CALM	CLOUDY	RUN		MEDIUM	NON-WADEABLE/MID-DEPTH
MOUR-01	MOUSAM RIVER - SM	9/14/2011	7:30 AM	N	FLOW		21.7	BANK	CLEAR	CALM		RUN		-	NON-WADEABLE/MID-DEPTH
											CLOUDY, HEAVY RAIN, PARTLY				
					STRM	MEDIU					CLOUDY,			MEDIUM	
MOUR-01	MOUSAM RIVER - SM	9/30/2011	7:45 AM	Ν	FLOW	М	13.3	BANK		CALM	SHOWERS	RUN		STAINED	NON-WADEABLE/MID-DEPTH
					OTDV				CLOUDY,		HEAVY RAIN,				
MOUR-02 S	MOUSAM RIVER - SM	6/9/2011	8:00 AM	N	STRM FLOW	нісн	18 9	WADING	LIGHT RAIN	CALM	LIGHT RAIN, SHOWERS	RUN		MEDIUM	WADEABLE/MID-DEPTH
		0/0/2011	0.00 AIVI			MEDIU	10.9			57 (EIVI				MEDIUM	
MOUR-02	MOUSAM RIVER - SM	6/22/2011	7:55 AM	N	FLOW			WADING	CLEAR	<u> </u>	CLEAR	RUN		STAINED	WADEABLE/MID-DEPTH

				** Sample			Air							Water	
Organization				Туре			Temp	Sample	Current	Air Cond			Tide	Appear-	
Site Code	VRMP Site ID	Date	Time	Qualifier	Flow	Stage	(° C)	Location	Weather	ition	Past 24HR Weather	Habitat	Stage	ance	Comments
MOUR-02	MOUSAM RIVER - SM	7/7/2011	8:10 AM	N	BASE FLOW	MEDIU M	22.2	WADING	CLEAR	CALM	CLEAR, LIGHT RAIN	RUN		MEDIUM	WADEABLE/MID-DEPTH
WOUR-02	WOUSAW RIVER - SW	11112011	0.10 Alvi			MEDIU	22.2	WADING	OLEAN	CALIN	NAIN	KUN		MEDIUM	
MOUR-02	MOUSAM RIVER - SM	7/21/2011	7:55 AM	N	FLOW	M	24.4	WADING	CLEAR	CALM	CLEAR	RUN			WADEABLE/MID-DEPTH
											CLEAR, CLOUDY,				
		0/2/2014	7.55 414	N	BASE		01.4		PARTLY		HEAVY RAIN,			MEDIUM	
MOUR-02	MOUSAM RIVER - SM	8/3/2011	7:55 AM	IN	FLOW BASE	LOW	21.1	WADING	CLOUDY	BREEZE	SHOWERS	RUN		MEDIUM	WADEABLE/MID-DEPTH
MOUR-02	MOUSAM RIVER - SM	8/18/2011	7:50 AM	N	FLOW	LOW	18.3	WADING	CLEAR		CLEAR	RUN		-	WADEABLE/MID-DEPTH
MOUR-02	MOUSAM RIVER - SM	8/18/2011	7:50 AM			-		WADING				-			WADEABLE/MID-DEPTH
					STRM				PARTLY		CLEAR, PARTLY			MEDIUM	
MOUR-02	MOUSAM RIVER - SM	9/1/2011	7:45 AM	N	FLOW BASE	HIGH MEDIU	20.0	WADING	CLOUDY	CALM	CLOUDY	RUN		MEDIUM	WADEABLE/MID-DEPTH
MOUR-02	MOUSAM RIVER - SM	9/14/2011	7:45 AM	N	FLOW	MEDIO	217	WADING	CLEAR	CALM	CLEAR	RUN			WADEABLE/MID-DEPTH
		0.1.1.2011									CLOUDY, HEAVY				
											RAIN, PARTLY				
						MEDIU	40.0				CLOUDY,			MEDIUM	
MOUR-02	MOUSAM RIVER - SM	9/30/2011	7:55 AM	N	FLOW	M	13.3	WADING		CALM	SHOWERS	RUN		STAINED	WADEABLE/MID-DEPTH
MOUR-03 WHICHERS					BASE	MEDIU									
HILL ROAD	MOUSAM RIVER - SM	6/20/2011	9:40 AM	N	FLOW	M	13.3	WADING	CLEAR	CALM	CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
		0/20/2011	0.107.00		BASE		10.0		022/11	0, 1211				022/11	
MOUR-03	MOUSAM RIVER - SM	7/5/2011	9:17 AM	N	FLOW	LOW	17.8	WADING	CLEAR	CALM	PARTLY CLOUDY	RUN		CLEAR	WADEABLE/MID-DEPTH
MOUR-03	MOUSAM RIVER - SM	7/5/2011	9:25 AM	Ν											
		7/00/0011	0.12 444	N	BASE		10.1			CALM					HEAVY RAIN 7/26 IN EARLY EVENING WADEABLE/MID-
MOUR-03	MOUSAM RIVER - SM	7/28/2011	9:13 AM	IN	FLOW	LOW	16.1	WADING	CLEAR	CALM	PARTLY CLOUDY	RUN		STAINED	HEAVY RAIN 7/26 IN EARLY EVENING WADEABLE/MID-
MOUR-03	MOUSAM RIVER - SM	7/28/2011	9:13 AM	D				WADING							DEPTH
					-	MEDIU					LIGHT RAIN,			MEDIUM	
MOUR-03	MOUSAM RIVER - SM	8/8/2011	9:03 AM	N	FLOW	M	21.1	WADING	CLOUDY	CALM	MOSTLY CLOUDY	RUN			
MOUR-03	MOUSAM RIVER - SM	8/23/2011	10:10 AM	N		MEDIU M	14.4	WADING	CLEAR	CALM	CLEAR	RUN			WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET
10010-03	NOUSANI RIVER - SIN	0/20/2011	10.10 AN			MEDIU	14.4	WADING	MOSTLY			RON		DARKLY	WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF
MOUR-03	MOUSAM RIVER - SM	9/14/2011	11:56 AM	N	FLOW	M	22.2	WADING	CLOUDY	BREEZE	PARTLY CLOUDY	RUN			CUSTODY FOR DATASHEET
MOUR-03	MOUSAM RIVER - SM	9/14/2011	11:57 AM	Ν											
		0/00/0044	0.57 414		STRM FLOW				PARTLY	CALM					WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF
MOUR-03 MOUR-03	MOUSAM RIVER - SM MOUSAM RIVER - SM	9/30/2011 9/30/2011	8:57 AM 8:58 AM		FLOW	HIGH	14.4	WADING	CLOUDY		HEAVY RAIN	RUN		STAINED	CUSTODY FOR DATASHEET
MOUR-05		0/00/2011	0.007 111		BASE									MEDIUM	
BERRY CT	MOUSAM RIVER - SM	6/7/2011	8:00 AM	N		LOW	15.0	WADING	CLEAR	CALM	CLEAR	RUN		STAINED	NON-WADEABLE/3 FT BELOW SURFACE
MOUR-05	MOUSAM RIVER - SM	6/24/2011	8:50 AM	Ν											
		0/04/0044	0.55		STRM				LIGHT	DDEEZE	CLOUDY, HEAVY	DUN			NON-WADEABLE/3 FT BELOW SURFACE DO METER
MOUR-05	MOUSAM RIVER - SM	6/24/2011	8:55 AM	N	FLOW BASE	HIGH	11.7	WADING	RAIN	BREEZE	RAIN, LIGHT RAIN	RUN		STAINED	MEMBRANE NOT INSPECTED.
MOUR-05	MOUSAM RIVER - SM	7/7/2011	8:45 AM	N	FLOW	IOW	217	WADING	CLEAR	CALM	CLEAR, SHOWERS	RUN		TURBID	NON-WADEABLE/3 FT BELOW SURFACE
MOUR-05	MOUSAM RIVER - SM	7/7/2011	8:45 AM		. 2011	2011		WADING	022/11	0/12/11					NON-WADEABLE/3 FT BELOW SURFACE
				1											THERE WAS A DRAWDOWN OF THE WATER TO
															REPAIR THE KESSELEN DAM 3 DAYS EARLIER (MOUR-
MOUR-05	MOUSAM RIVER - SM	8/12/2011	8:35 AM	N	FLOW	MEDIU	18.3	WADING	CLEAR	CALM	CLEAR, PARTLY CLOUDY	RUN		TURBID	05, MOUR-06). BRIDGE CONSTRUCTION UPSTREAM OF MOUR-06 NON-WADEABLE/3 FT BELOW SURFACE
	WOUSAW RIVER - SW	0/12/2011	0.55 AIVI			ivi	10.3	MADING							THERE WAS A DRAWDOWN OF THE WATER TO
															REPAIR THE KESSELEN DAM 3 DAYS EARLIER (MOUR-
															05, MOUR-06). BRIDGE CONSTRUCTION UPSTREAM
MOUR-05	MOUSAM RIVER - SM	8/12/2011	8:35 AM					WADING							OF MOUR-06 NON-WADEABLE/3 FT BELOW SURFACE
MOUR-05	MOUSAM RIVER - SM	8/12/2011	8:50 AM	Ν											

				** Sample			Air							Water	
Organization				Туре			Temp	Sample	Current	Air Cond	h		Tide	Appear-	
Site Code	VRMP Site ID	Date	Time	Qualifier	Flow	Stage	(° C)	Location	Weather	ition	Past 24HR Weather	Habitat	Stage	ance	Comments
															RIVER STAGNANT, BEHIND KESSELIN DAM NON-
		0/05/0044	0.20 414	N	BASE	MEDIU	20.0		MOSTLY	STRONG					WADEABLE/3 FT BELOW SURFACE DO METER
MOUR-05	MOUSAM RIVER - SM	8/25/2011	8:30 AM	N	FLOW	М	20.0	WADING	CLOUDY	WIND	PARTLY CLOUDY			TURBID	MEMBRANE NOT INSPECTED. RIVER STAGNANT, BEHIND KESSELIN DAM NON-
															WADEABLE/3 FT BELOW SURFACE DO METER
MOUR-05	MOUSAM RIVER - SM	8/25/2011	8:30 AM	D				WADING							MEMBRANE NOT INSPECTED.
MOUR-05	MOUSAM RIVER - SM	8/25/2011	8:40 AM												
MOUR-05	MOUSAM RIVER - SM	8/25/2011	8:40 AM	D											
MOUR-05	MOUSAM RIVER - SM	9/16/2011	1:35 PM	Ν											
					B 4 6 F				DADTIN	070010	CLEAR, PARTLY				
		0/10/0011		N	BASE		45.0		PARTLY		CLOUDY,	DUN		MEDIUM	
MOUR-05	MOUSAM RIVER - SM	9/16/2011	1:45 PM	N		HIGH	15.6	WADING	CLOUDY	WIND	SHOWERS	RUN		STAINED	NON-WADEABLE/3 FT BELOW SURFACE
ROGER'S POND		6/7/2011	7:40 414	N	BASE FLOW		15.0	WADING	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
FOND	MOUSAM RIVER - SM	6/7/2011	7:40 AM	IN		MEDIU	15.0	WADING	LIGHT	CALM	CLOUDY, HEAVY	NIFFLE		-	WADEABLE/MID-DEPTH DO METER MEMBRANE NOT
MOUR-06	MOUSAM RIVER - SM	6/24/2011	8:30 AM	N	FLOW	M	117	WADING	RAIN	BREEZE		RIFFLE			INSPECTED.
		0/2 // 20 / 1	0.007.00		BASE					DITELL				O I A AI LED	
MOUR-06	MOUSAM RIVER - SM	7/7/2011	8:20 AM	N	FLOW	LOW	21.7	WADING	CLEAR	CALM	CLEAR, SHOWERS	RIFFLE		TURBID	WADEABLE/MID-DEPTH
															THERE WAS A DRAWDOWN OF THE WATER TO
															REPAIR THE KESSELEN DAM 3 DAYS EARLIER (MOUR-
						MEDIU					CLEAR, PARTLY				05, MOUR-06). BRIDGE CONSTRUCTION UPSTREAM
MOUR-06	MOUSAM RIVER - SM		9:00 AM		FLOW	М	18.3	WADING	CLEAR	CALM	CLOUDY	RIFFLE		TURBID	OF MOUR-06 WADEABLE/1.5 FT BELOW SURFACE
MOUR-06	MOUSAM RIVER - SM	8/12/2011	9:10 AM	N											
		0.05.00.1.1			BASE	MEDIU			MOSTLY	STRONG			HIGH		WADEABLE/MID-DEPTH DO METER MEMBRANE NOT
MOUR-06 MOUR-06	MOUSAM RIVER - SM MOUSAM RIVER - SM	8/25/2011 8/25/2011	8:50 AM 9:00 AM		FLOW	IVI	20.0	WADING	CLOUDY	WIND	PARTLY CLOUDY	RIFFLE	EBB	CLEAR	INSPECTED.
WOUR-00	WOUSAW RIVER - SW	0/25/2011	9.00 AW	IN							CLEAR, PARTLY				
					BASE				PARTLY	STRONG	CLOUDY,			MEDIUM	
MOUR-06	MOUSAM RIVER - SM	9/16/2011	2:10 PM	N	FLOW	HIGH	15.6	WADING	CLOUDY	WIND	SHOWERS	RIFFLE			WADEABLE/1.5 FT BELOW SURFACE
MOUR-07 RTE					BASE	-		-					LOW	-	
9 BRIDGE	MOUSAM RIVER - SM	6/7/2011	7:15 AM	N	FLOW	LOW	15.0	BRIDGE	CLEAR	CALM	CLEAR	RUN	EBB	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
															NO BACTERIA SAMPLE TAKEN. HEAVY RAIN
					STRM				LIGHT		CLOUDY, HEAVY		HIGH	MEDIUM	OVERNIGHT. NON-WADEABLE/3 FT BELOW SURFACE
MOUR-07	MOUSAM RIVER - SM	6/24/2011	8:10 AM	N	FLOW	HIGH	11.7	BRIDGE	RAIN	BREEZE	RAIN, LIGHT RAIN	RUN	EBB	STAINED	DO METER MEMBRANE NOT INSPECTED.
													LOW		COULD NOT GET BACTERIA SAMPLE - BRIDGE
MOUR-07	MOUSAM RIVER - SM	7/7/2011	8:00 AM	N	BASE FLOW	LOW	21.7	BRIDGE	CLEAR	CALM	CLEAR, SHOWERS			TURBID	CONSTRUCTION UPSTREAM NON-WADEABLE/3 FT BELOW SURFACE
10010-07		7/1/2011	0.00 AN		BASE	LOW	21.7	DIVIDOL	OLLAN	CALIN	CLEAR, PARTLY	KON	LOOD	MEDIUM	
MOUR-07	MOUSAM RIVER - SM	8/12/2011	9:20 AM	N	FLOW	HIGH	18.3	BRIDGE	CLEAR	CALM	CLOUDY	RUN	FLOOD		NON-WADEABLE/3 FT BELOW SURFACE
MOUR-07	MOUSAM RIVER - SM	8/12/2011	9:30 AM												
					BASE				MOSTLY	STRONG	i		HIGH		WADEABLE/MID-DEPTH DO METER MEMBRANE NOT
MOUR-07	MOUSAM RIVER - SM	8/25/2011	9:25 AM		FLOW	HIGH	20.0	BRIDGE	CLOUDY	WIND	PARTLY CLOUDY	RUN	EBB	CLEAR	INSPECTED.
MOUR-07	MOUSAM RIVER - SM	8/25/2011	9:30 AM	N											
											CLEAR, PARTLY				
		040/00/	0.05 51		BASE			DDIDGE	PARTLY		CLOUDY,		HIGH	MEDIUM	
MOUR-07	MOUSAM RIVER - SM	9/16/2011	2:35 PM	N		HIGH	15.6	BRIDGE	CLOUDY	WIND	SHOWERS	RUN	EBB	STAINED	NON-WADEABLE/3 FT BELOW SURFACE
PARSONS		6/7/2044	7.00 444	N	BASE		15 0			CALM		DUN			
BEACH	BACK CREEK - SMUB	6/7/2011	7:00 AM		FLOW	LOW	15.0	BRIDGE	CLEAR	CALM		RUN	EBB		WADEABLE/1.5 FT BELOW SURFACE
		6/24/2044	7.60 444	N	STRM FLOW	нісн	11 7	BRIDGE	LIGHT RAIN	BDEE7F	CLOUDY, HEAVY	RUN	HIGH EBB	MEDIUM	NON-WADEABLE/3 FT BELOW SURFACE DO METER MEMBRANE NOT INSPECTED.
MOUR-08	BACK CREEK - SMUB	6/21/2011	7:50 AM	IN	FLOW	пюп	11.7	BRIDGE	RAIN	DREEZE	RAIN, LIGHT RAIN	RUN	CDD	STAINED	
					BASE								LOW		WADEABLE/1.5 FT BELOW SURFACE NON-WADEABLE STREAM - SAMPLED 1.5' BELOW SURFACE (SHOULD
MOUR-08	BACK CREEK - SMUB	7/7/2011	7:40 AM	N	FLOW	LOW	217	BRIDGE	CLEAR	CALM	CLEAR, SHOWERS	RUN	FLOOD	CLEAR	BE MID-DEPTH OR 3 FT BELOW SURFACE).
				1	BASE					<i>S.</i> .=111	CLEAR, PARTLY		. 2000	MEDIUM	
MOUR-08	BACK CREEK - SMUB	8/12/2011	9:45 AM	N	FLOW	HIGH	18.3	BRIDGE	CLEAR	CALM	CLOUDY	RUN	FLOOD		NON-WADEABLE/3 FT BELOW SURFACE

				** Sample			Air							Water	
Organization		Data	Time	Type	Flow	Change	Temp	Sample	Current	Air Cond		Ushited	Tide	Appear-	Commente
Site Code	VRMP Site ID	Date	Time	Qualifier	Flow BASE	Stage	(° C)	Location	Weather MOSTLY	ition STRONG	Past 24HR Weather	Παριται	Stage HIGH	ance	Comments WADEABLE/MID-DEPTH DO METER MEMBRANE NOT
MOUR-08	BACK CREEK - SMUB	8/25/2011	9:40 AM	N	FLOW	HIGH	20.0	BRIDGE	CLOUDY	WIND	PARTLY CLOUDY	RUN	EBB	CLEAR	INSPECTED.
											CLEAR, PARTLY				
MOUR-08	BACK CREEK - SMUB	9/16/2011	2:55 PM	N	BASE FLOW	нісн	15.6	BRIDGE	PARTLY CLOUDY	STRONG WIND	CLOUDY, SHOWERS	RUN	HIGH EBB		NON-WADEABLE/3 FT BELOW SURFACE
MOUR-08 MOUR-09 RTE	DACK CREEK - SWIUD	9/10/2011	2.55 F IVI	IN	BASE	MEDIU	13.0	DIVIDUE	CLOODT	WIND	SHOWERS	KON	LDD	STAINED	NON-WADEABEL/311 BELOW SONTAGE
	MOUSAM RIVER - SM	6/20/2011	9:01 AM	N	FLOW		13.3	WADING	CLEAR	CALM	CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
															4TH OF JULY - LOTS OF BOAT TRAFIC ON LAKE ESTES,
MOUR-09	MOUSAM RIVER - SM	7/5/2011	8:35 AM	N	BASE FLOW	MEDIU M	17.8	WADING	CLEAR	CALM	PARTLY CLOUDY	RIFFLE		CLEAR	STIRRING SEDIMENT INTO SUSPENSION WADEABLE/MID-DEPTH
			0.007.44						022/01	0, 1211				022,	4TH OF JULY - LOTS OF BOAT TRAFIC ON LAKE ESTES,
		7/5/0044	0.05 414												STIRRING SEDIMENT INTO SUSPENSION
	MOUSAM RIVER - SM MOUSAM RIVER - SM	7/5/2011 7/5/2011	8:35 AM 8:42 AM					WADING							WADEABLE/MID-DEPTH
		110/2011	0.127.00		BASE									MEDIUM	HEAVY RAIN 7/26 IN EARLY EVENING WADEABLE/MID-
MOUR-09	MOUSAM RIVER - SM	7/28/2011	8:44 AM	N	FLOW	LOW	16.1	WADING	CLEAR	CALM	PARTLY CLOUDY	RUN		STAINED	DEPTH
					BVSE	MEDIU					LIGHT RAIN, MOSTLY CLOUDY,			MEDIUM	
MOUR-09	MOUSAM RIVER - SM	8/8/2011	8:25 AM	N		M	21.1	WADING	CLOUDY	CALM	SHOWERS	RUN		-	WADEABLE/MID-DEPTH
						MEDIU									WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF
MOUR-09	MOUSAM RIVER - SM	8/23/2011	9:39 AM	N	FLOW	М	14.4	WADING	CLEAR	CALM	CLEAR	RUN		STAINED	CUSTODY FOR DATASHEET WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF
MOUR-09	MOUSAM RIVER - SM	8/23/2011	9:39 AM	D				WADING							CUSTODY FOR DATASHEET
						MEDIU			MOSTLY						WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF
	MOUSAM RIVER - SM	9/14/2011	11:27 AM		FLOW	М	22.2	WADING	CLOUDY	BREEZE	PARTLY CLOUDY	RUN		STAINED	CUSTODY FOR DATASHEET
MOUR-09	MOUSAM RIVER - SM	9/30/2011	8:29 AM	IN	STRM				PARTLY					MEDIUM	WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF
MOUR-09	MOUSAM RIVER - SM	9/30/2011	8:30 AM	N	FLOW	HIGH	14.4	WADING	CLOUDY	CALM	HEAVY RAIN	RUN			CUSTODY FOR DATASHEET
MOUR-10						MEDIU								MEDIUM	
NEW DAM RD	MOUSAM RIVER - SM	6/20/2011	9:22 AM	N	FLOW	М	13.3	BRIDGE	CLEAR	CALM	CLEAR	RUN		STAINED	NON-WADEABLE/MID-DEPTH 4TH OF JULY - LOTS OF BOAT TRAFIC ON LAKE ESTES,
					BASE	MEDIU								MEDIUM	STIRRING SEDIMENT INTO SUSPENSION NON-
MOUR-10	MOUSAM RIVER - SM	7/5/2011	9:06 AM	N	-	М	17.8	BRIDGE	CLEAR	CALM	PARTLY CLOUDY	RUN		-	WADEABLE/MID-DEPTH
		= 100 100 1 1				MEDIU	10.1			0.41.44					HEAVY RAIN 7/26 IN EARLY EVENING NON-
	MOUSAM RIVER - SM MOUSAM RIVER - SM	7/28/2011 7/28/2011	9:00 AM 9:03 AM		FLOW	M	16.1	BRIDGE	CLEAR	CALM	PARTLY CLOUDY	RUN		STAINED	WADEABLE/MID-DEPTH
	MOUSAM RIVER - SM	7/28/2011	9:03 AM	L											
						MEDIU					LIGHT RAIN,				LEVEL SUBJECT TO ESTES DAM NON-WADEABLE/MID-
	MOUSAM RIVER - SM MOUSAM RIVER - SM	8/8/2011 8/8/2011	8:50 AM 8:50 AM	N	FLOW	М	21.1	BRIDGE	CLOUDY	CALM	MOSTLY CLOUDY	RUN		STAINED	DEPTH
WOOK-10	WOUSAW RIVER - SW	0/0/2011	0.50 AlVI	L	BASE	MEDIU								MEDIUM	P/O ESTES LAKE NON-WADEABLE/MID-DEPTH DID NOT
	MOUSAM RIVER - SM	8/23/2011	9:55 AM		FLOW		14.4	BRIDGE	CLEAR	CALM	CLEAR	RUN		-	COMPLETE CHAIN OF CUSTODY FOR DATASHEET
MOUR-10	MOUSAM RIVER - SM	9/14/2011	11:40 AM	Ν	DAOF				MOOTLY						
MOUR-10	MOUSAM RIVER - SM	9/14/2011	11:42 AM	N	BASE FLOW	MEDIU M	22.2	BRIDGE	MOSTLY CLOUDY	BREEZE	PARTLY CLOUDY	RUN		MEDIUM STAINED	
		0.1.12011			STRM			5111502	PARTLY	DITELL				MEDIUM	
	MOUSAM RIVER - SM	9/30/2011	8:43 AM		FLOW	HIGH	14.4	BRIDGE	CLOUDY	CALM	HEAVY RAIN	RUN		STAINED	CHAIN OF CUSTODY FOR DATASHEET
MOUR-10 MOUSMB-01	MOUSAM RIVER - SM	9/30/2011	8:46 AM	N	BASE	MEDIU						-		MEDIUM	
	MIDDLE BRANCH MO	6/20/2011	8:27 AM	N	FLOW		13.3	BRIDGE	CLEAR	CALM	CLEAR	RUN		-	NON-WADEABLE/MID-DEPTH
					BASE								1	MEDIUM	
MOUSMB-01	MIDDLE BRANCH MO	7/5/2011	7:58 AM	N	FLOW BASE	LOW	17.8	BRIDGE	CLEAR	CALM	PARTLY CLOUDY	RUN		STAINED MEDIUM	NON-WADEABLE/MID-DEPTH HEAVY RAIN 7/26 IN EARLY EVENING NON-
MOUSMB-01	MIDDLE BRANCH MO	7/28/2011	8:12 AM	N	FLOW	LOW	16 1	BRIDGE	CLEAR	CALM	PARTLY CLOUDY	RUN		-	HEAVY RAIN 7/26 IN EARLY EVENING NON- WADEABLE/MID-DEPTH
			0.127.00		BASE	MEDIU					LIGHT RAIN,			MEDIUM	
MOUSMB-01	MIDDLE BRANCH MO	8/8/2011	8:09 AM	N	FLOW	М	21.1	BRIDGE	CLOUDY	CALM	MOSTLY CLOUDY	RUN		STAINED	NON-WADEABLE/MID-DEPTH

	Date 8/8/2011 8/23/2011	Time 8:09 AM 9:10 AM	D	Flow BASE	Stage	Air Temp (° C)	Sample Location	Current Weather	Air Cond ition			Tide	Water Appear-	
E BRANCH MO	8/8/2011	8:09 AM	Qualifier D			(° C)	Location						Appour	h
E BRANCH MO	8/8/2011	8:09 AM	D			<u> </u>				Past 24HR Weather	Habitat	Stage	ance	Comments
	8/23/2011	9:10 AM		BASE			BRIDGE					olugo		NON-WADEABLE/MID-DEPTH
	8/23/2011	9:10 AM	N 1		MEDIU								MEDIUM	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE
			N	FLOW	M	14.4	BRIDGE	CLEAR	CALM	CLEAR	RUN		STAINED	CHAIN OF CUSTODY FOR DATASHEET
				BASE	MEDIU			MOSTLY					MEDIUM	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE
	9/14/2011	11:04 AM	N	FLOW	M	22.2	BRIDGE	CLOUDY	BREEZE	PARTLY CLOUDY	RUN		STAINED	CHAIN OF CUSTODY FOR DATASHEET
													MEDIUM	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE
E BRANCH MO	9/30/2011	8:06 AM	Ν	FLOW	HIGH	14.4	BRIDGE	CLOUDY	CALM	HEAVY RAIN	RUN		STAINED	CHAIN OF CUSTODY FOR DATASHEET
				BASE	MEDIU								MEDIUM	
E BRANCH MO	6/20/2011			FLOW	М	13.3	BRIDGE	CLEAR	CALM	CLEAR	RUN		STAINED	NON-WADEABLE/MID-DEPTH
E BRANCH MO	6/20/2011	8:42 AM												
				-									-	
				FLOW	LOW	17.8	BRIDGE	CLEAR	CALM	PARTLY CLOUDY	RUN		STAINED	NON-WADEABLE/MID-DEPTH
E BRANCH MO	7/28/2011	8:28 AM												
													-	HEAVY RAIN 7/26 IN EARLY EVENING NON-
E BRANCH MO	7/28/2011	8:33 AM		-	-	16.1	BRIDGE	CLEAR	-		RUN			WADEABLE/MID-DEPTH
				-	-					- /			-	LEVEL SUBJECT TO ESTES DAM, SLIGHTLY FOAMY
		-		FLOW	М	21.1	BRIDGE	CLOUDY	CALM	MOSTLY CLOUDY	RUN		STAINED	NON-WADEABLE/MID-DEPTH
E BRANCH MO	8/8/2011	8:24 AM												
				-	-								-	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE
E BRANCH MO	8/23/2011	9:22 AM				14.4			CALM	CLEAR	RUN			
	0/14/0011	11.10		-	-	22.0							-	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE
				FLOW	IVI	22.2	BRIDGE	CLOUDY	BREEZE	PARILI GLOUDI	RUN		STAINED	CHAIN OF CUSTODY FOR DATASHEET
E DRAINCH MU	9/14/2011	11.15 AW		STDM										NON-WADEABLE/MID-DEPTH DID NOT COMPLETE
	0/20/2011	0.15 AM			нісн	111			CALM		DUN			CHAIN OF CUSTODY FOR DATASHEET
				LOW	nion	14.4	DIVIDGE	GLOODT			NON		STAINED	CHAIN OF COSTOD FFOR DATASHEET
	BRANCH MO	BRANCH MO 9/30/2011 BRANCH MO 6/20/2011 BRANCH MO 6/20/2011 BRANCH MO 6/20/2011 BRANCH MO 7/5/2011 BRANCH MO 7/28/2011 BRANCH MO 7/28/2011 BRANCH MO 7/28/2011 BRANCH MO 8/8/2011 BRANCH MO 8/8/2011 BRANCH MO 8/23/2011 BRANCH MO 9/14/2011 BRANCH MO 9/14/2011 BRANCH MO 9/14/2011 BRANCH MO 9/14/2011	BRANCH MO 9/30/2011 8:06 AM BRANCH MO 6/20/2011 8:40 AM BRANCH MO 6/20/2011 8:42 AM BRANCH MO 6/20/2011 8:42 AM BRANCH MO 7/5/2011 8:21 AM BRANCH MO 7/28/2011 8:23 AM BRANCH MO 7/28/2011 8:33 AM BRANCH MO 7/28/2011 8:21 AM BRANCH MO 8/8/2011 8:24 AM BRANCH MO 8/8/2011 8:24 AM BRANCH MO 8/23/2011 9:22 AM BRANCH MO 9/14/2011 11:13 AM BRANCH MO 9/14/2011 11:15 AM BRANCH MO 9/30/2011 8:15 AM	BRANCH MO 9/30/2011 8:06 AM N BRANCH MO 6/20/2011 8:40 AM N BRANCH MO 6/20/2011 8:42 AM N BRANCH MO 6/20/2011 8:42 AM N BRANCH MO 7/5/2011 8:21 AM N BRANCH MO 7/28/2011 8:23 AM N BRANCH MO 7/28/2011 8:33 AM N BRANCH MO 8/8/2011 8:21 AM N BRANCH MO 8/8/2011 8:24 AM N BRANCH MO 8/8/2011 8:24 AM N BRANCH MO 8/23/2011 9:22 AM N BRANCH MO 9/14/2011 11:13 AM N BRANCH MO 9/14/2011 11:15 AM N BRANCH MO 9/30/2011 8:15 AM N	BRANCH MO 9/30/2011 8:06 AM N STRM FLOW BRANCH MO 9/30/2011 8:06 AM N FLOW BRANCH MO 6/20/2011 8:40 AM N FLOW BRANCH MO 6/20/2011 8:42 AM N BASE BRANCH MO 7/5/2011 8:21 AM N FLOW BRANCH MO 7/28/2011 8:28 AM N BASE BRANCH MO 7/28/2011 8:33 AM N FLOW BRANCH MO 7/28/2011 8:33 AM N FLOW BRANCH MO 8/8/2011 8:21 AM N FLOW BRANCH MO 8/8/2011 8:24 AM N FLOW BRANCH MO 8/8/2011 8:24 AM N FLOW BRANCH MO 8/23/2011 9:22 AM N FLOW BRANCH MO 9/14/2011 11:13 AM N FLOW BRANCH MO 9/14/2011 11:15 AM N STRM BRANCH MO 9/30/2011 8:15 AM N FLOW	BRANCH MO 9/30/2011 8:06 AM N STRM FLOW HIGH BRANCH MO 6/20/2011 8:40 AM N FLOW HIGH BRANCH MO 6/20/2011 8:40 AM N FLOW M BRANCH MO 6/20/2011 8:42 AM N BASE MEDIU BRANCH MO 6/20/2011 8:42 AM N BASE E BRANCH MO 7/5/2011 8:21 AM N FLOW LOW BRANCH MO 7/28/2011 8:33 AM N FLOW LOW BRANCH MO 7/28/2011 8:33 AM N FLOW LOW BRANCH MO 8/8/2011 8:21 AM N FLOW LOW BRANCH MO 8/8/2011 8:24 AM N BASE MEDIU BRANCH MO 8/8/2011 8:24 AM N BASE MEDIU BRANCH MO 8/8/2011 8:24 AM N BASE MEDIU BRANCH MO 8/23/2011 9:22 AM N FLOW M BASE MEDIU BRANCH MO 9/14/2011 11:13 AM N FLOW M BASE MEDI	BRANCH MO 9/30/2011 8:06 AM N STRM FLOW HIGH 14.4 BRANCH MO 6/20/2011 8:40 AM N FLOW MEDIU 13.3 BRANCH MO 6/20/2011 8:40 AM N FLOW M 13.3 BRANCH MO 6/20/2011 8:42 AM N BASE MEDIU 14.4 BRANCH MO 6/20/2011 8:42 AM N BASE MEDIU 17.8 BRANCH MO 7/5/2011 8:21 AM N FLOW LOW 17.8 BRANCH MO 7/28/2011 8:33 AM N FLOW LOW 16.1 BRANCH MO 8/8/2011 8:21 AM N FLOW M 21.1 BRANCH MO 8/8/2011 8:21 AM N FLOW M 21.1 BRANCH MO 8/8/2011 8:24 AM N BASE MEDIU 14.4 BRANCH MO 8/23/2011 9:22 AM N FLOW M 14.4 BRANCH MO 9/14/2011 11:13 AM N FLOW M 22.2 BRANCH MO 9/30/2011	BRANCH MO 9/30/2011 8:06 AM N STRM FLOW HIGH 14.4 BRIDGE BRANCH MO 6/20/2011 8:40 AM N FLOW HIGH 13.3 BRIDGE BRANCH MO 6/20/2011 8:40 AM N FLOW M 13.3 BRIDGE BRANCH MO 6/20/2011 8:42 AM N BASE M 14.4 BRIDGE BRANCH MO 6/20/2011 8:42 AM N BASE 17.8 BRIDGE BRANCH MO 7/5/2011 8:21 AM N FLOW LOW 17.8 BRIDGE BRANCH MO 7/28/2011 8:28 AM N BASE 16.1 BRIDGE BRANCH MO 7/28/2011 8:33 AM N FLOW LOW 16.1 BRIDGE BRANCH MO 8/8/2011 8:21 AM N FLOW M 21.1 BRIDGE BRANCH MO 8/8/2011 8:24 AM N BASE MEDIU 14.4 BRIDGE BRANCH MO 8/23/2011 9:22 AM N FLOW M 14.4 BRIDGE BRANCH MO	STRM STRM HIGH 14.4 BRIDGE PARTLY E BRANCH MO 9/30/2011 8:06 AM N FLOW HIGH 14.4 BRIDGE CLOUDY E BRANCH MO 6/20/2011 8:40 AM N FLOW M 13.3 BRIDGE CLEAR E BRANCH MO 6/20/2011 8:42 AM N BASE M 17.8 BRIDGE CLEAR E BRANCH MO 7/5/2011 8:21 AM N FLOW LOW 17.8 BRIDGE CLEAR E BRANCH MO 7/28/2011 8:28 AM N BASE MEDIU 16.1 BRIDGE CLEAR E BRANCH MO 7/28/2011 8:33 AM N FLOW LOW 16.1 BRIDGE CLEAR BASE MEDIU BASE MEDIU ELOW 16.1 BRIDGE CLOUDY E BRANCH MO 8/8/2011 8:21 AM N FLOW M 14.4 BRIDGE CLOUDY E BRANCH MO 8/2/3/2011 9:22 AM N FLOW M 14.4 BRIDGE C	STRM STRM HIGH 14.4 BRIDGE PARTLY CALM BRANCH MO 9/30/2011 8:06 AM N FLOW HIGH 14.4 BRIDGE CLOUDY CALM BRANCH MO 6/20/2011 8:40 AM N FLOW M 13.3 BRIDGE CLEAR CALM BRANCH MO 6/20/2011 8:42 AM N BASE MEDIU 13.3 BRIDGE CLEAR CALM BRANCH MO 6/20/2011 8:42 AM N BASE MEDIU 17.8 BRIDGE CLEAR CALM BRANCH MO 7/5/2011 8:21 AM N FLOW LOW 17.8 BRIDGE CLEAR CALM BRANCH MO 7/28/2011 8:33 AM N FLOW LOW 16.1 BRIDGE CLOUDY CALM BRANCH MO 8/8/2011 8:21 AM N FLOW M 21.1 BRIDGE CLOUDY CALM BRANCH MO 8/8/2011 8:24 AM N HLOW M 14.4 BRIDGE CLOUDY CALM	BRANCH MO 9/30/2011 8:06 AM N STRM FLOW HIGH 14.4 BRIDGE PARTLY CLOUDY CALM HEAVY RAIN BRANCH MO 6/20/2011 8:40 AM N FLOW M 13.3 BRIDGE CLEAR CALM HEAVY RAIN BRANCH MO 6/20/2011 8:40 AM N FLOW M 13.3 BRIDGE CLEAR CALM CLEAR BRANCH MO 6/20/2011 8:42 AM N BASE M 17.8 BRIDGE CLEAR CALM PARTLY CLOUDY BRANCH MO 7/5/2011 8:21 AM N FLOW LOW 17.8 BRIDGE CLEAR CALM PARTLY CLOUDY BRANCH MO 7/28/2011 8:33 AM N FLOW LOW 16.1 BRIDGE CLEAR CALM PARTLY CLOUDY BRANCH MO 8/8/2011 8:31 AM N FLOW M 21.1 BRIDGE CLOUDY CALM MOSTLY CLOUDY BRANCH MO 8/2/2011 8:24 AM N FLOW M 14.4 BRIDGE CLOUDY CALM MOSTLY CLOUDY BRANCH MO 8/23/2011 9:22 AM N	BRANCH MO9/30/20118:06 AM NSTRM FLOWHIGH14.4 BRIDGEPARTLY CLOUDYCALMHEAVY RAINRUNBRANCH MO6/20/20118:40 AM NFLOWM13.3 BRIDGECLEARCALMCLEARRUNBRANCH MO6/20/20118:42 AM NBASEMEDIU13.3 BRIDGECLEARCALMCLEARRUNBRANCH MO6/20/20118:42 AM NBASEBASEImage: Clear CalmPARTLY CLOUDYRUNBRANCH MO7/5/20118:21 AM NFLOWLOW17.8 BRIDGECLEARCALMPARTLY CLOUDYRUNBRANCH MO7/28/20118:33 AM NFLOWLOW16.1 BRIDGECLEARCALMPARTLY CLOUDYRUNE BRANCH MO7/28/20118:21 AM NFLOWLOW16.1 BRIDGECLOUDYCALMMOSTLY CLOUDYRUNE BRANCH MO8/8/20118:21 AM NFLOW M14.4 BRIDGECLOUDYCALMMOSTLY CLOUDYRUNE BRANCH MO8/23/20119:22 AM NFLOW M14.4 BRIDGECLOUDYBREEZEPARTLY CLOUDYRUNE BRANCH MO9/14/201111:13 AM NFLOW M22.2 BRIDGECLOUDYBREEZEPARTLY CLOUDYRUNE BRANCH MO9/30/20118:15 AM NFLOW HIGH14.4 BRIDGECLOUDYCALMHEAVY RAINRUN	STRM E BRANCH MO9/30/20118:06 AM NSTRM FLOWHIGH14.4BRIDGEPARTLY CLOUDYCALMHEAVY RAINRUNBASE BRANCH MO6/20/20118:40 AM NFLOWM13.3BRIDGECLEARCALMCLEARRUNBRANCH MO6/20/20118:42 AM NBASE FLOWM13.3BRIDGECLEARCALMCLEARRUNE BRANCH MO7/5/20118:42 AM NBASE FLOWFLOW17.8BRIDGECLEARCALMPARTLY CLOUDYRUNE BRANCH MO7/28/20118:28 AM NBASE FLOWFLOW16.1BRIDGECLEARCALMPARTLY CLOUDYRUNE BRANCH MO7/28/20118:33 AM NFLOWLOW16.1BRIDGECLEARCALMPARTLY CLOUDYRUNE BRANCH MO8/8/20118:21 AM NFLOWM21.1BRIDGECLOUDYCALMMOSTLY CLOUDYRUNE BRANCH MO8/8/20118:21 AM NFLOWM14.4BRIDGECLOUDYCALMMOSTLY CLOUDYRUNE BRANCH MO8/23/20119:22 AM NFLOWM14.4BRIDGECLEARCALMCLEARRUNE BRANCH MO9/14/201111:13 AM NFLOWM22.2BRIDGECLOUDYBREEZEPARTLY CLOUDYRUNE BRANCH MO9/30/20118:15 AM NFLOWHIGH14.4BRIDGECLOUDYCALMHEAVY RAINRUN	E BRANCH MO 9/30/2011 8:06 AM N FLOW HIGH 14.4 BRIDGE PARTLY CLOUDY CALM HEAVY RAIN RUN MEDIUM STAINED BASE MEDIU BASE BRANCH MO 6/20/2011 8:40 AM N FLOW M 13.3 BRIDGE CLEAR CALM CLEAR RUN MEDIUM STAINED BASE BRANCH MO 7/5/2011 8:21 AM N FLOW LOW 17.8 BRIDGE CLEAR CALM PARTLY CLOUDY RUN STAINED MEDIUM BASE BRANCH MO 7/28/2011 8:33 AM N FLOW LOW 16.1 BRIDGE CLEAR CALM PARTLY CLOUDY RUN STAINED HEDIUM BASE MEDIU BAS

Mousam River	- Mousam & Kennebun	nk Rivers All	iance (Non-	-approved	Sites)						•			
MOUR-04 MILL					BASE								MEDIUM	
STREET	MOUSAM RIVER - SM	6/7/2011	8:35 AM	Ν	FLOW	LOW	15.0	WADING	CLEAR	CALM	CLEAR	RUN	STAINEI	NON-WADEABLE/3 FT BELOW SURFACE
														COULDN'T GET SAMPLE IN GOOD RUN BECAUSE
														WATER WAS TOO HIGH WITH STEEP DROPOFF. NON-
					STRM				LIGHT		CLOUDY, HEAVY		MEDIUN	WADEABLE/3 FT BELOW SURFACE DO METER
MOUR-04	MOUSAM RIVER - SM	6/24/2011	9:20 AM	N	FLOW	HIGH	11.7	WADING	RAIN	BREEZE	RAIN, LIGHT RAIN	RUN	STAINEI	MEMBRANE NOT INSPECTED.
														COULDN'T GET SAMPLE IN GOOD RUN BECAUSE
														WATER WAS TOO HIGH WITH STEEP DROPOFF. NON-
														WADEABLE/3 FT BELOW SURFACE DO METER
MOUR-04	MOUSAM RIVER - SM	6/24/2011	9:20 AM					WADING						MEMBRANE NOT INSPECTED.
					BASE									
MOUR-04	MOUSAM RIVER - SM	7/7/2011	9:05 AM	N	FLOW		21.7	WADING	CLEAR	CALM	CLEAR, SHOWERS	RUN	TURBID	NON-WADEABLE/3 FT BELOW SURFACE
					BASE	MEDIU					CLEAR, PARTLY			
MOUR-04	MOUSAM RIVER - SM	8/12/2011	8:10 AM	Ν	FLOW	M	18.3	WADING	CLEAR	CALM	CLOUDY	RUN	TURBID	NON-WADEABLE/MID-DEPTH
MOUR-04	MOUSAM RIVER - SM	8/12/2011	8:20 AM	N										
						MEDIU				STRONG				NON-WADEABLE/3 FT BELOW SURFACE DO METER
	MOUSAM RIVER - SM		8:10 AM		FLOW	M	20.0	WADING	CLOUDY	WIND	PARTLY CLOUDY	RUN	STAINEI	MEMBRANE NOT INSPECTED.
MOUR-04	MOUSAM RIVER - SM	8/25/2011	8:15 AM	N										
											CLEAR, PARTLY			
					BASE					STRONG	,		MEDIUM	
	MOUSAM RIVER - SM		1:30 PM		FLOW	HIGH	15.6	WADING	CLOUDY	WIND	SHOWERS	RUN	STAINEI	NON-WADEABLE/3 FT BELOW SURFACE
MOUR-04	MOUSAM RIVER - SM	9/16/2011	1:35 PM	Ν										