

## Section 5-6

# 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

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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.<sup>1</sup> 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.

The 2001 TMDL report identified a 3.7 mile segment of the Mousam River, located from the Route 4 bridge to Estes Lake, as 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 and two additional sites in Sanford were added in 2012.

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

## Methods

The volunteers monitored ten main stem stations and three tributary stations in 2013. Tributary stations are located on the Middle Branch of the Mousam River, Littlefield River and Back Creek. The Back Creek station is the only station located in the tidal/estuarine portion of the river. A summary of the sample stations is provided in Table 5-6-1 and a maps is provided in Figures 5-6-1.

All but one of the Mousam River sites are VRMP approved sites, the one non approved site is MOUR-04. Previous reports have identified Station MOUR-06 as Class SB, but it has been determined that this site is just above the hydraulic head of tide, which is freshwater site and it should be identified as Class B.

**Table 5-6-1:** Mousam and Kennebunk Rivers Alliance sampling sites for the Mousam River.

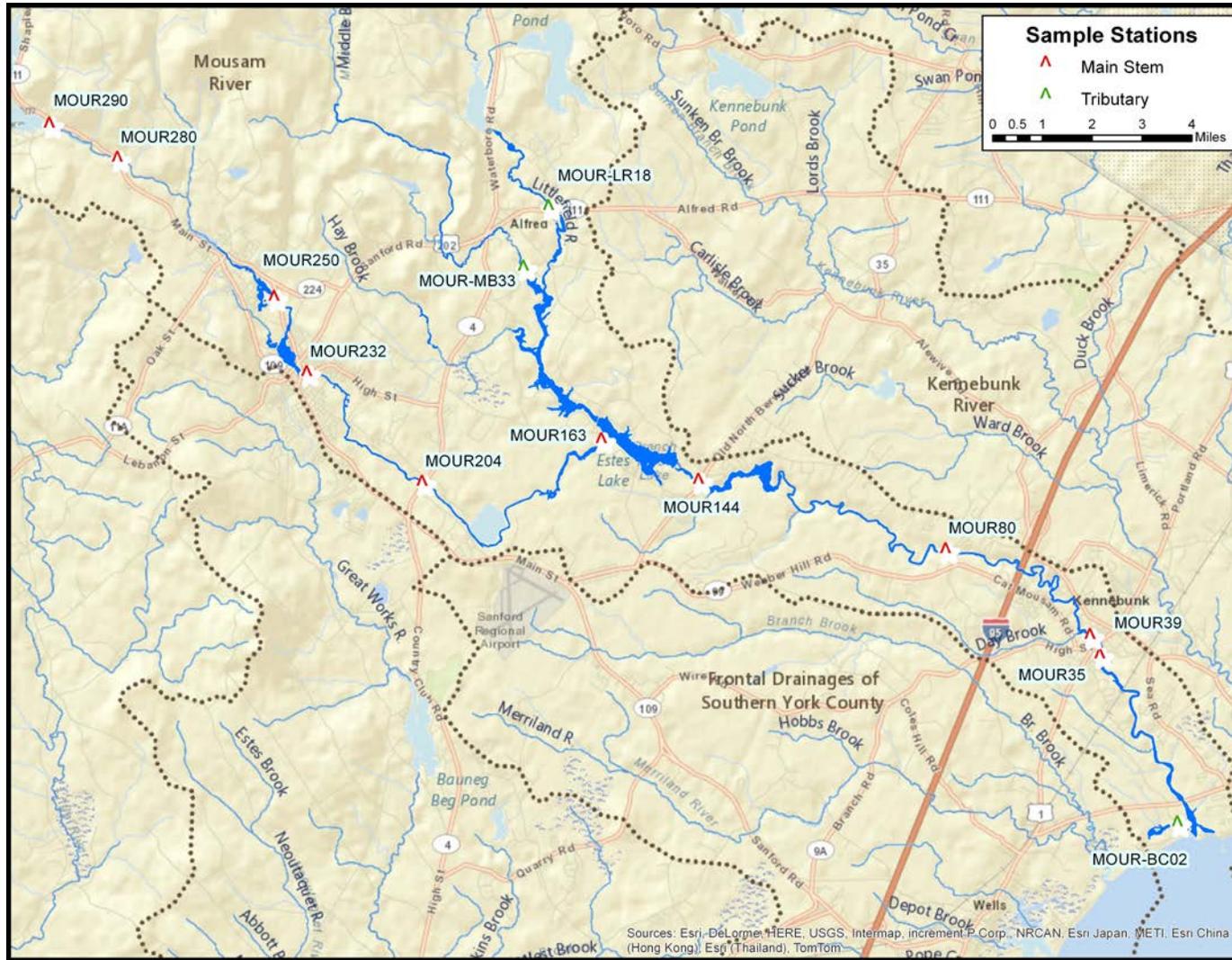
<b>Main Stem Sites</b> (Ordered from upstream to downstream)				
<b>VRMP Site ID</b>	<b>Organization Site Code</b>	<b>Sample Location</b>	<b>River Mile</b>	<b>Class</b>
MOUR290	MOUR-01	Headwaters	25.6	B
MOUR280	MOUR-02	S Curve Road	24.6	B
MOUR250	MOUR-11	Behind YMCA	21.6	C
MOUR232	MOUR-12	High Street	19.7	C
MOUR204	MOUR-10	New Dam Road	16.9	C
MOUR163	MOUR-09	Route 4	12.8	C
MOUR144	MOUR-03	Whicher's Hill Road	10.9	B
MOUR80	MOUR-04	Mill Street	4.6	B
MOUR39	MOUR-05	Berry Ct.	0.5	B
MOUR35	MOUR-06	Roger's Pond	0.1	B
<b>Tributary Sites</b>				
Middle Branch Mousam River MOUR-MB33	MOUSMB-02	Swett's Bridge	4.4	B
Littlefield River MOUR-LR18	LR-01	Back Road	2.2	B
Back Creek MOUR-BC02	MOUR-08	Above Parson's Beach	0.2	SB

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.

## 2013 Mousam River Sampling Sites, Entire Watershed Mousam and Kennebunk Rivers Alliance

**Figure 5-6-1:** Map of Mousam and Kennebunk Rivers Alliance sampling sites on Mousam River. Mainstem and tributary sites are differentiated by coloration.



## Results

For the purpose of discussion, the sampling stations were divided into three groups; Upper Main Stem (MOUR290, MOUR280, MOUR250, MOUR232, MOUR204), Lower Main Stem (MOUR163, MOUR144, MOUR80, MOUR39) and Tributaries (MOUR-LR18, MOUR-MB33, MOUR-BC02) and Upper Branch (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. Two types of graphs are provided in this report to look at water quality data. The first type of graph is a longitudinal profile graph, which depicts main stem sites according to their position (river mile) on the river (the larger the river mile, the more upstream the sampling station is). A box and whisker diagram depicts the range of data observed at each station during the course of the sampling season (The box represents the range of the middle 50% of values, the whiskers represent the minimum and maximum extremes, and the line connects the median values at each station). The longitudinal profile plot is useful for showing general water quality trends and can be helpful in identifying the location of specific influences. The second type of graph is a time series graph, which shows the temporal/seasonal trends of water quality data associated with each station. Time series graphs are useful in assessing the relative influence of external factors (e.g., weather) on water quality trends.

### Precipitation

Figure 5-6-2 provides a graph of rainfall and sampling dates for the monitoring period. Rainfall data was obtained from Weather Underground (<http://www.wunderground.com>). Weather station choice (Sanford Airport-Station KSFM) was based on proximity and station with most complete records. If there was an airport station close by, this was chosen. This information provides an overview of rainfall events and can be useful in interpreting monitoring results for some parameters. Overall, 2013 was a wet year with higher than normal rainfall and resultant river flows.

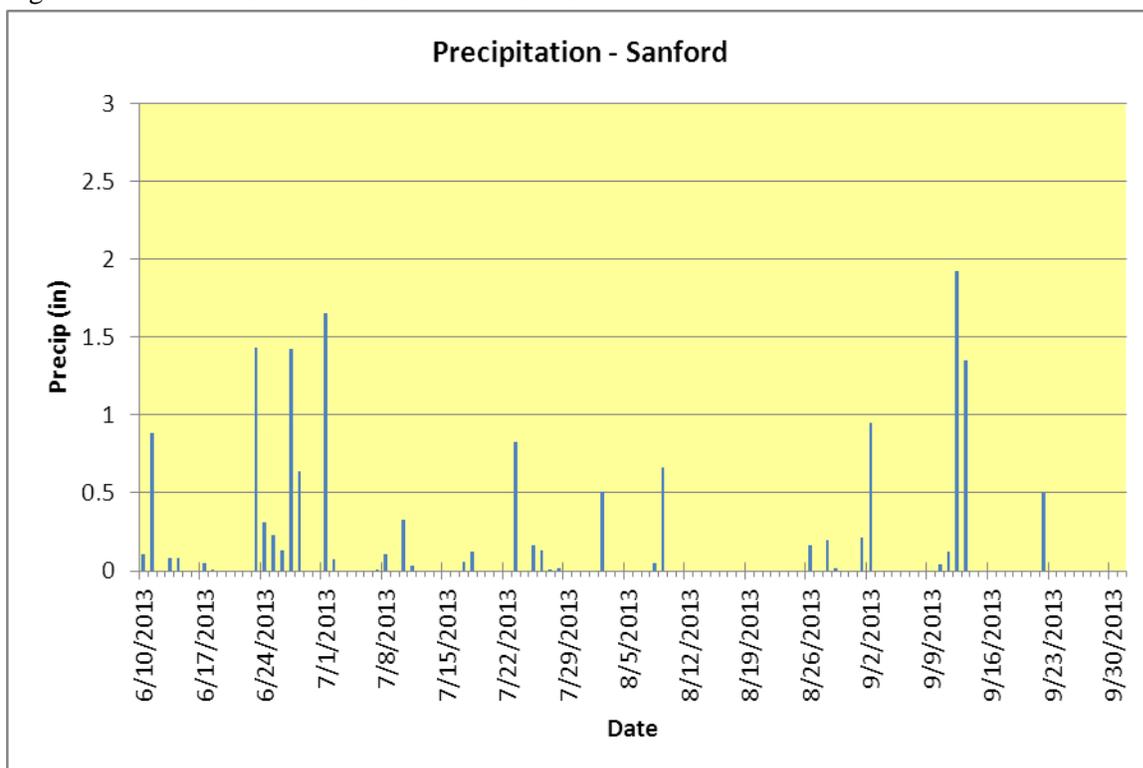
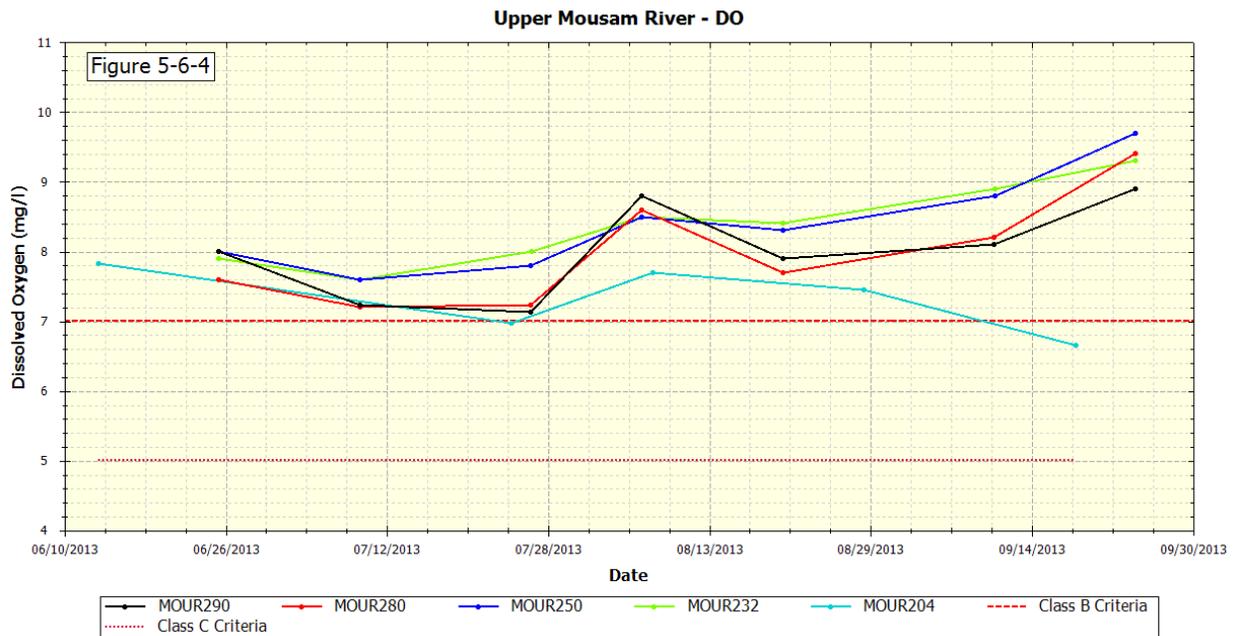
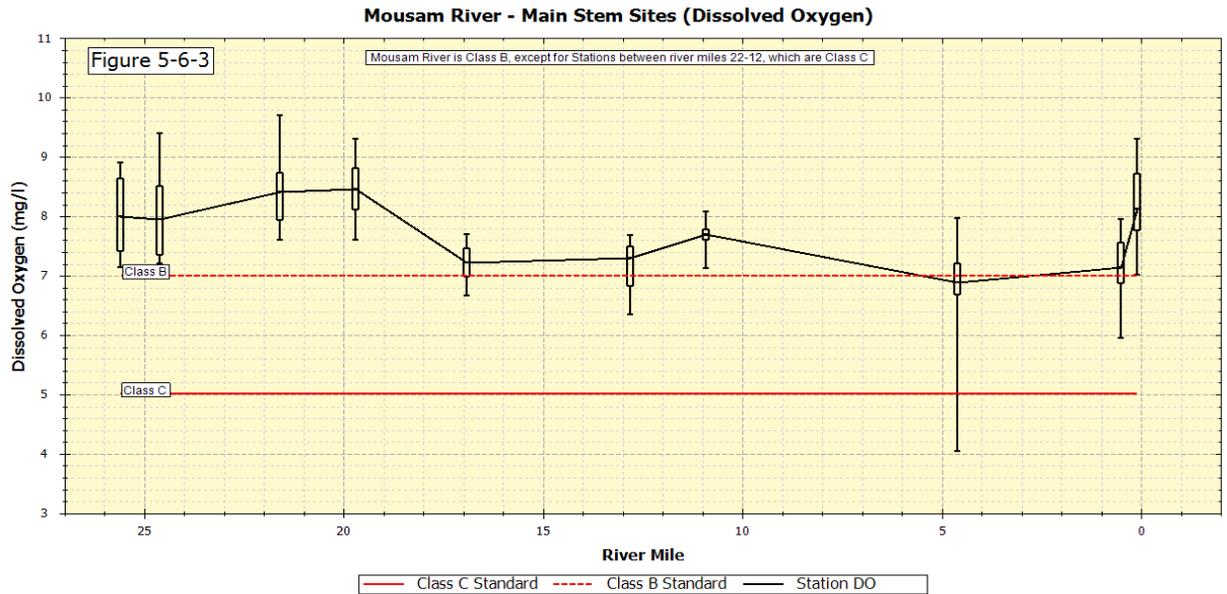
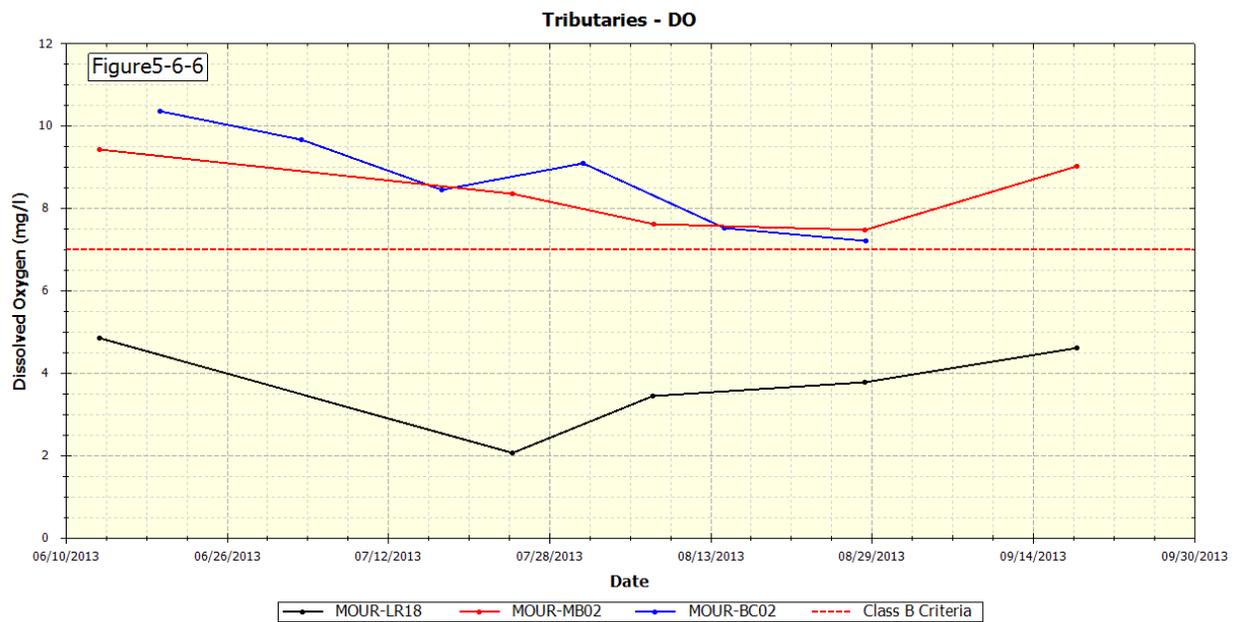
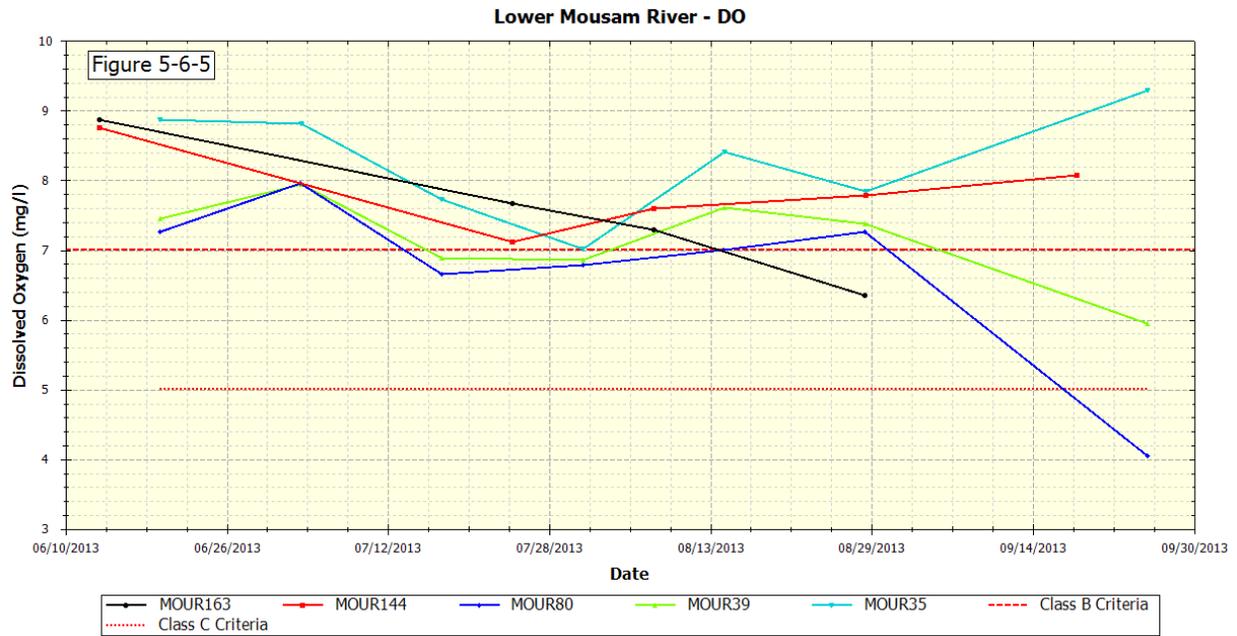


Figure 5-6-2: Seasonal precipitation measured at Sanford Airport.

## Dissolved Oxygen

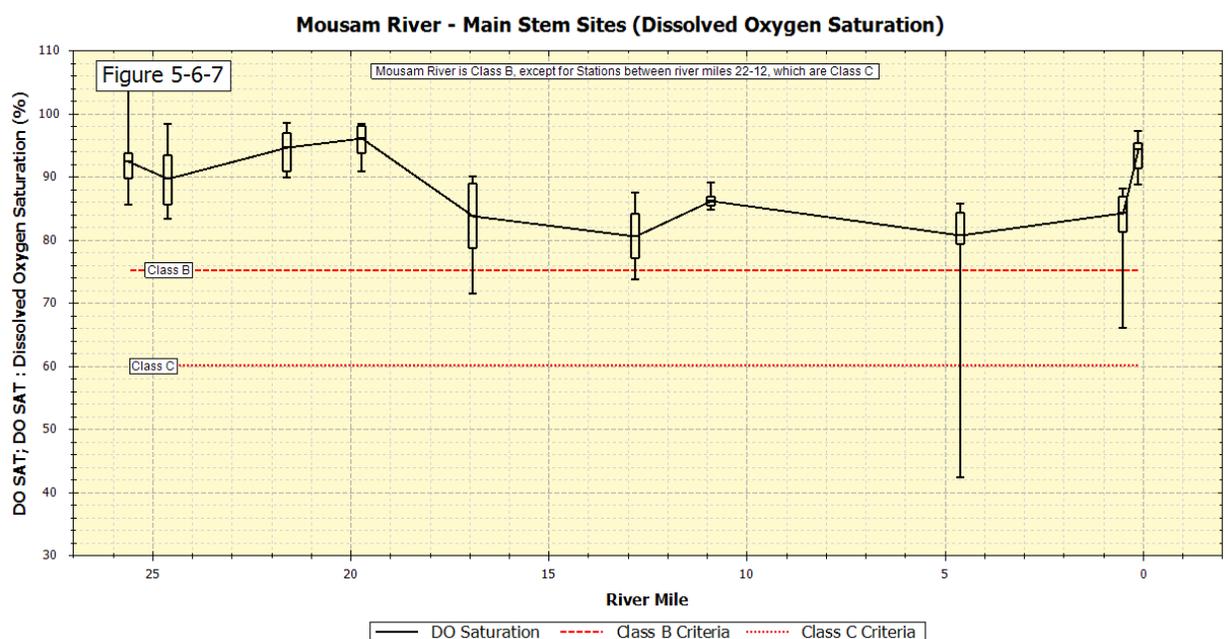
Dissolved oxygen (DO) was measured 5-7 times at each of the thirteen sampling sites (Table 5-6-2). Monitoring occurred from June through September. Class B criteria for dissolved oxygen are a minimum of 7 mg/l (milligrams/liter) or 75% saturation. Class C criteria for dissolved oxygen are a minimum of 5 mg/l or 60 % saturation. To meet water quality criteria, both concentration and saturation standards must be met. The Class SB standard is 85% saturation (no specific concentration standard).

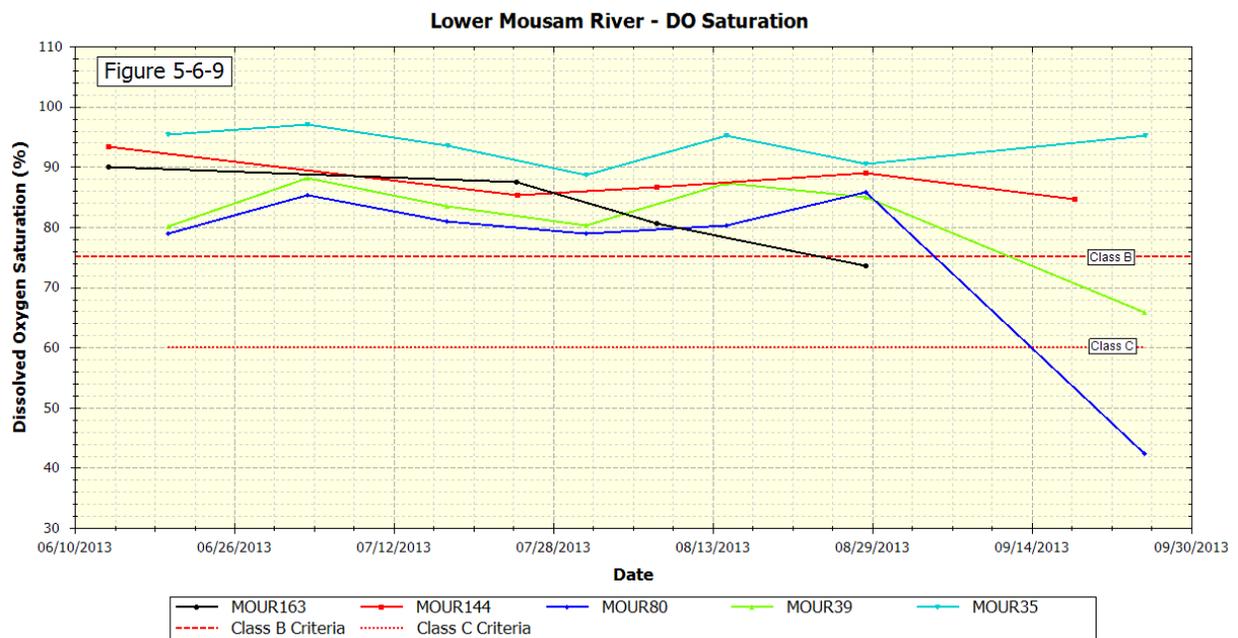
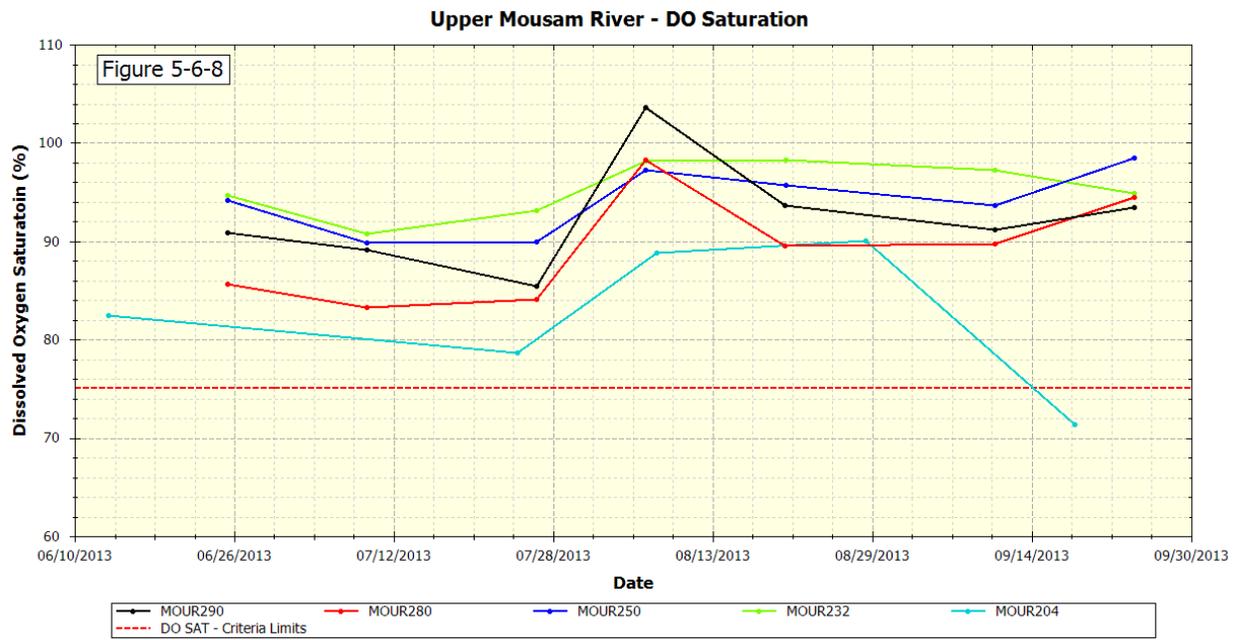


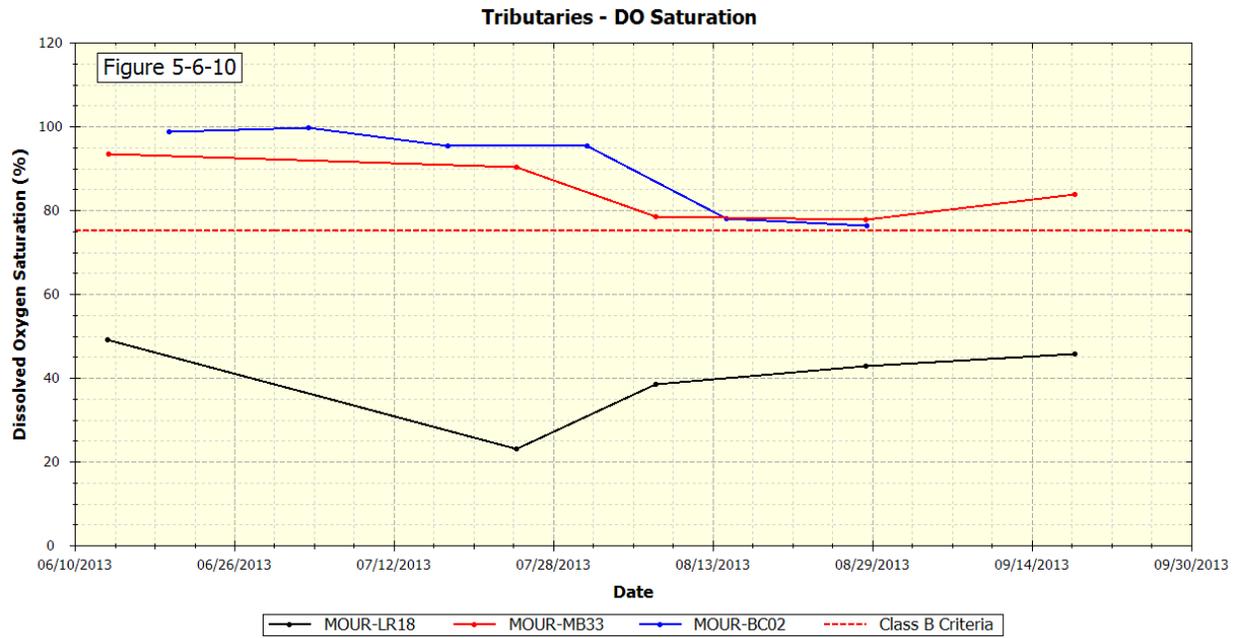


**Table 5-6-2:** A summary of minimum, maximum, and average dissolved oxygen concentration (mg/l) values for Mousam and Kennebunk Rivers Alliance monitoring sites on the Mousam River.

Main Stem Sites (Ordered from upstream to downstream)							
Site	Class	# of Observations	Mean	Minimum	Maximum	Criterion	# Exceeding
MOUR-290	B	7	7.9	7.13	8.9	7	0
MOUR-280	B	7	8.02	7.2	9.4	7	0
MOUR-250	C	7	8.39	7.6	9.7	7	0
MOUR-232	C	7	8.37	7.6	9.3	5	0
MOUR-204	C	5	7.35	6.66	7.82	5	0
MOUR-163	C	4	7.55	6.35	4	5	0
MOUR-144	B	5	7.87	7.12	8.76	7	0
MOUR-80	B	7	6.71	4.04	7.96	7	3
MOUR-39	B	7	7.15	5.94	7.94	7	3
MOUR-35	B	7	8.28	7.01	9.29	7	0
Tributary Sites							
MOUSMB-33	B	5	8.37	7.47	9.43	7	0
LR-18	B	5	3.74	2.06	4.84	7	5
BC-02	SB	6	8.72	7.21	10.36	n/a	0







**Table 5-6-3:** A summary of minimum, maximum, and average dissolved oxygen saturation (%) values for Mousam and Kennebunk Rivers Alliance monitoring sites on the Mousam River.

<b>Main Stem Sites</b> (Ordered from upstream to downstream)							
<b>Site</b>	<b>Class</b>	<b># of Observations</b>	<b>Mean</b>	<b>Minimum</b>	<b>Maximum</b>	<b>Criterion</b>	<b># Exceeding</b>
MOUR-290	B	7	92.46	85.4	103.6	75	0
MOUR-280	B	7	89.29	83.3	98.3	75	0
MOUR-250	C	7	94.11	89.8	98.5	60	0
MOUR-232	C	7	95.31	90.8	98.3	60	0
MOUR-204	C	5	82.24	71.4	90	60	0
MOUR-163	C	4	82.88	73.6	90	60	0
MOUR-144	B	5	87.81	84.6	93.4	75	0
MOUR-80	B	7	76.04	42.3	85.7	75	1
MOUR-39	B	7	81.45	65.9	88.1	75	1
MOUR-35	B	7	93.61	88.6	97.1	75	0
<b>Tributary Sites</b>							
<b>Site</b>	<b>Class</b>	<b># of Observations</b>	<b>Mean</b>	<b>Minimum</b>	<b>Maximum</b>	<b>Criterion</b>	<b># Exceeding</b>
MOUSMB-33	B	5	84.72	77.7	93.3	75	0
LR-18	B	5	39.76	23.1	49	75	5
BC-02	SB	6	90.57	76.2	99.7	85	2

2013 was a fairly high river flow year due to frequency of recurring rain events throughout the summer. Based on this observation alone, one would expect better than average water quality. Despite this fact, non-attainment was measured in both main stem and tributary sites (see tables 5-6-2 and 5-6-3 for a summary of exceedances). The worst DO was measured in the Littlefield River, which has been consistently below the Class B standard. The Littlefield River may be naturally prone to low DO readings due to the wetland like nature of its particular watershed.

The longitudinal DO profiles show a general declining trend in the middle portion of the river, with some recovery near the bottom end of the river. Stations MOUR80 (river mile 4.6) and MOUR39 (river mile 0.5) show some non-attainment of the Class B standard. The middle portion of the river is characterized by a fair amount of urban development around Sanford and then a slower moving section of river with a fair amount of wetland area. Both of these factors are likely to contribute to the general DO sag in the middle portion of the river. Station MOUR80 shows a very wide range in values and some of the lowest values overall. The wide ranging values may be indicative of nutrient enrichment. Additional afternoon

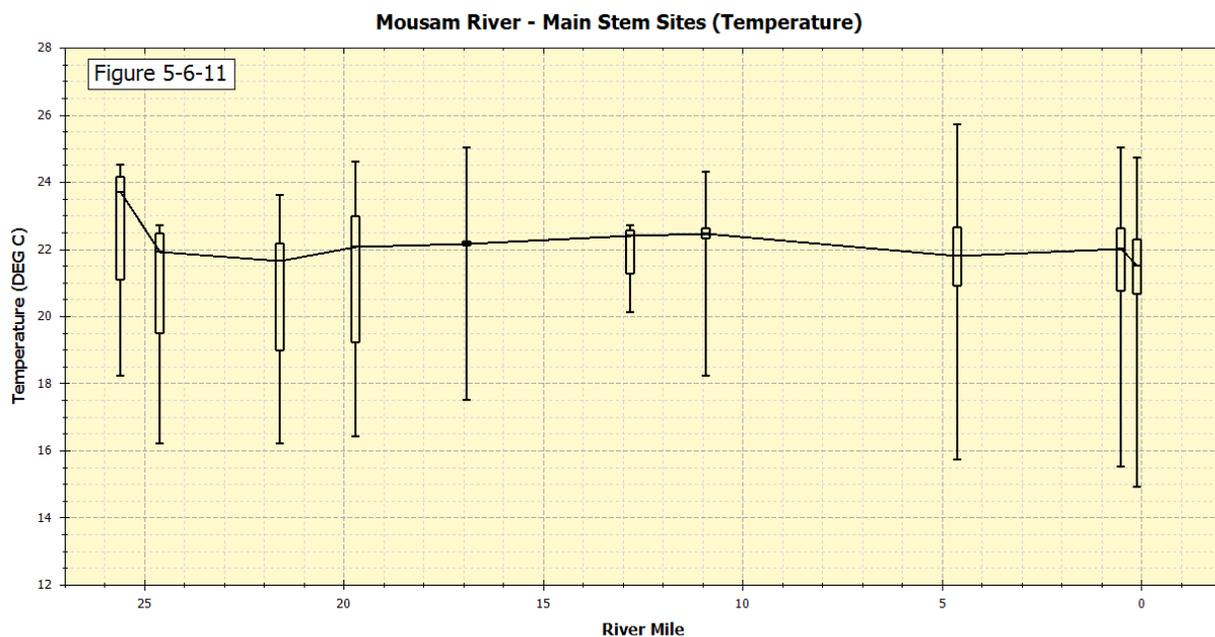
monitoring would be necessary to better assess the root cause of the more extreme DO sags. Nutrient enrichment would typically be associated with fairly large diurnal DO swings, with low DO in the early morning and significantly higher DO (typically 2 ppm or more) in the afternoon.

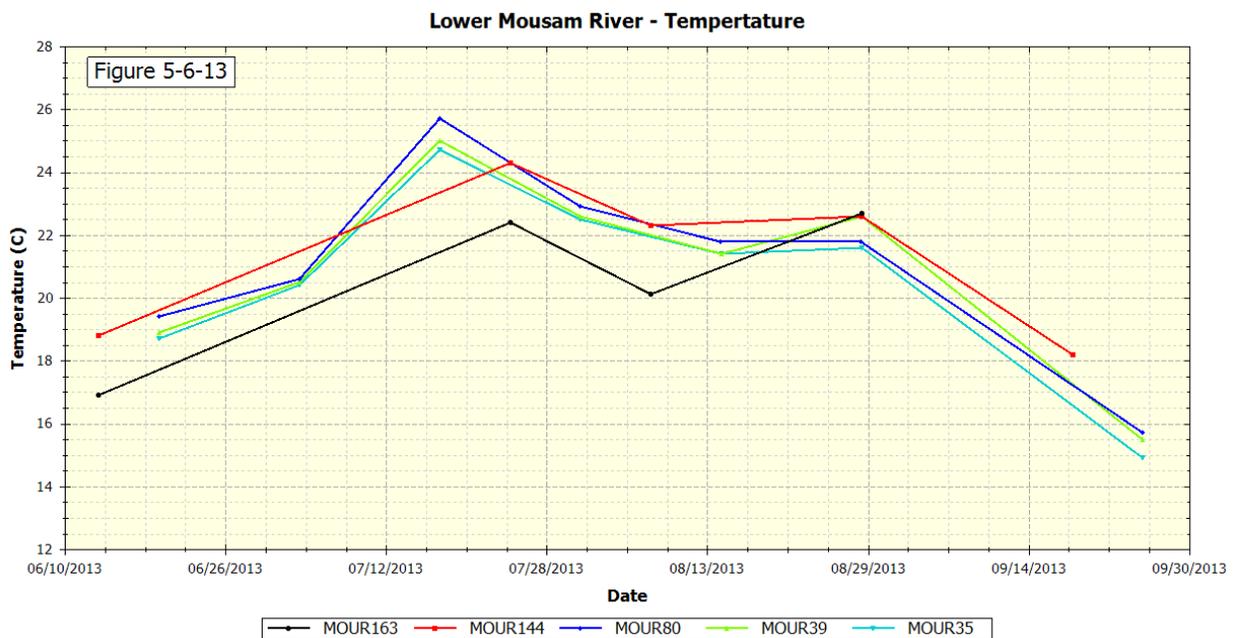
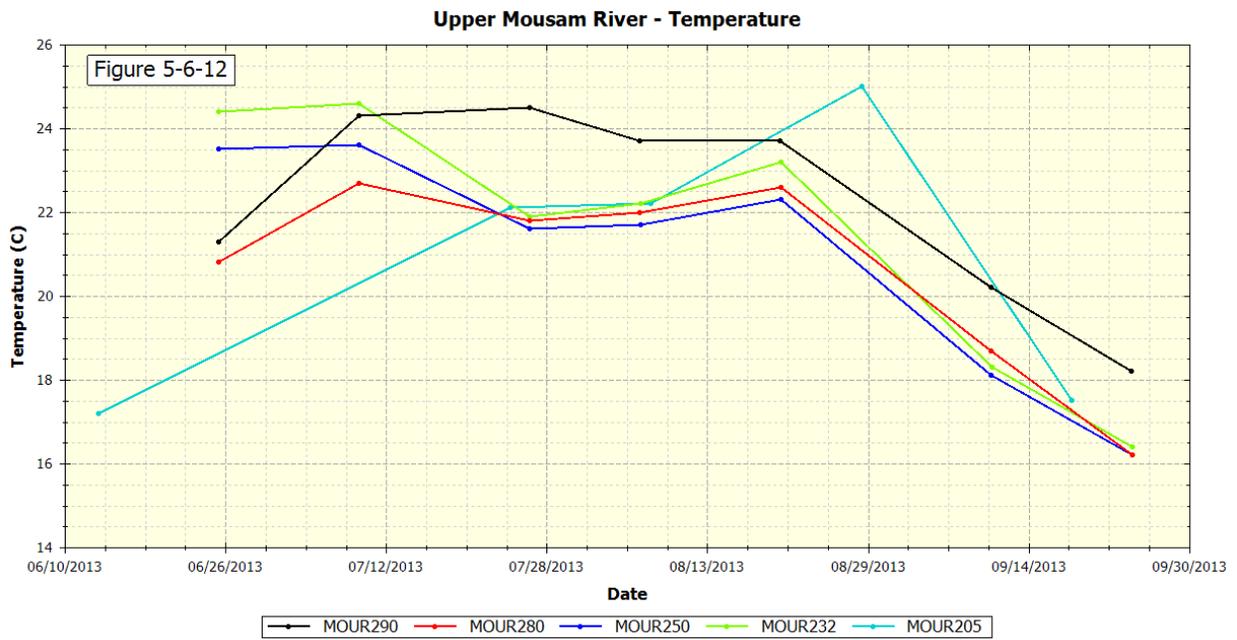
The general shape and trend of the time series graphs is what you would typically expect; the lowest readings occur during the middle of summer, with somewhat better water quality early and late in the sampling season. The lower most main stem sites seem to buck this trend, with the lowest readings occurring late in the season. The Littlefield River tributary site was consistently below the Class B standard throughout the course of the sampling season.

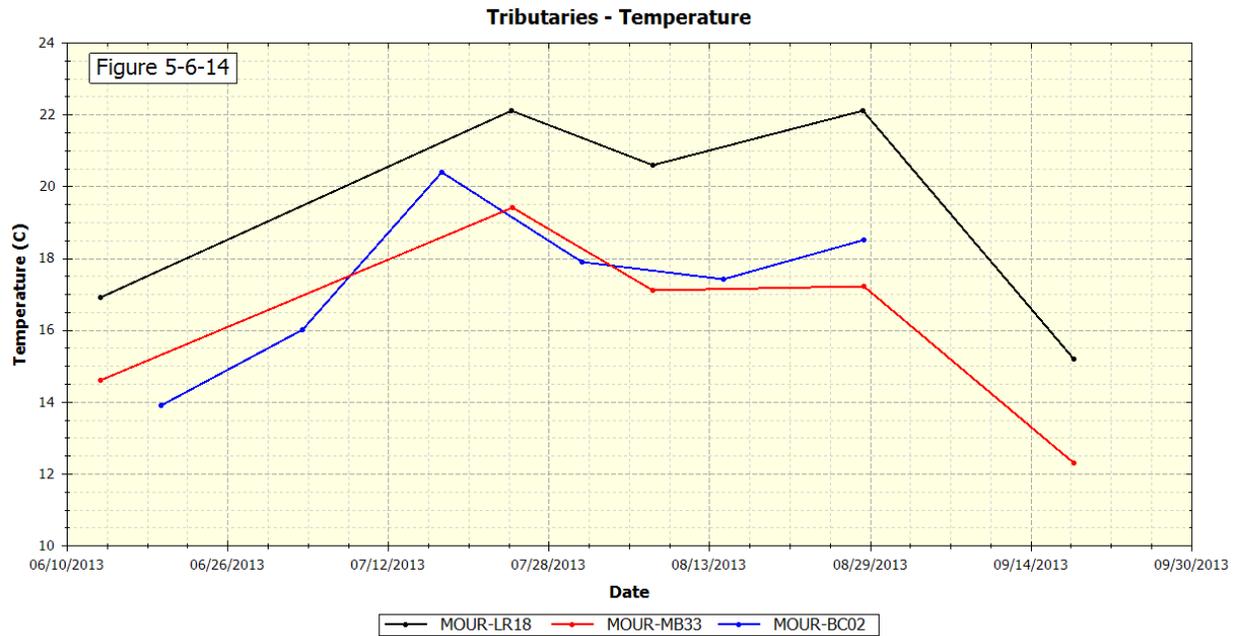
The monitors did a decent job of getting out to sites earlier in the day (before 8:00 am) and should continue to try and do so. Afternoon is the time of day when plant photosynthesis peaks, and DO is at the highest level during any 24-hour period. Supplemental afternoon monitoring could be beneficial to help assess the root cause of non-attainment sites.

### Water Temperature

Temperature was measured 4-7 times at each of the thirteen sampling sites (Table 5-6-4). 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. These temperature criteria do not apply to this VRMP data.







**Table 5-6-4 :** A summary of minimum, maximum, and average water temperature (°C) values for Mousam and Kennebunk Rivers Alliance monitoring sites on the Mousam River.

Main Stem Sites (Ordered from upstream to downstream)							
Site	Class	# of Observations	Mean	Minimum	Maximum	Criterion	# Exceeding
MOUR-290	B	7	22.27	18.2	24.5	n/a	n/a
MOUR-280	B	7	20.69	16.2	22.7	n/a	n/a
MOUR-250	C	7	21	16.2	23.6	n/a	n/a
MOUR-232	C	7	21.57	16.4	24.6	n/a	n/a
MOUR-204	C	5	20.8	17.2	25	n/a	n/a
MOUR-163	C	4	20.53	16.9	22.7	n/a	n/a
MOUR-144	B	5	21.24	18.2	24.3	n/a	n/a
MOUR-80	B	7	21.13	15.7	25.7	n/a	n/a
MOUR-39	B	7	20.93	15.5	25	n/a	n/a
MOUR-35	B	7	20.6	14.9	24.7	n/a	n/a
Tributary Sites							
MOUSMB-33	B	5	16.12	12.3	19.4	n/a	n/a
LR-18	B	5	19.38	15.2	22.1	n/a	n/a
BC-02	SB	6	17.35	13.9	20.4	n/a	n/a

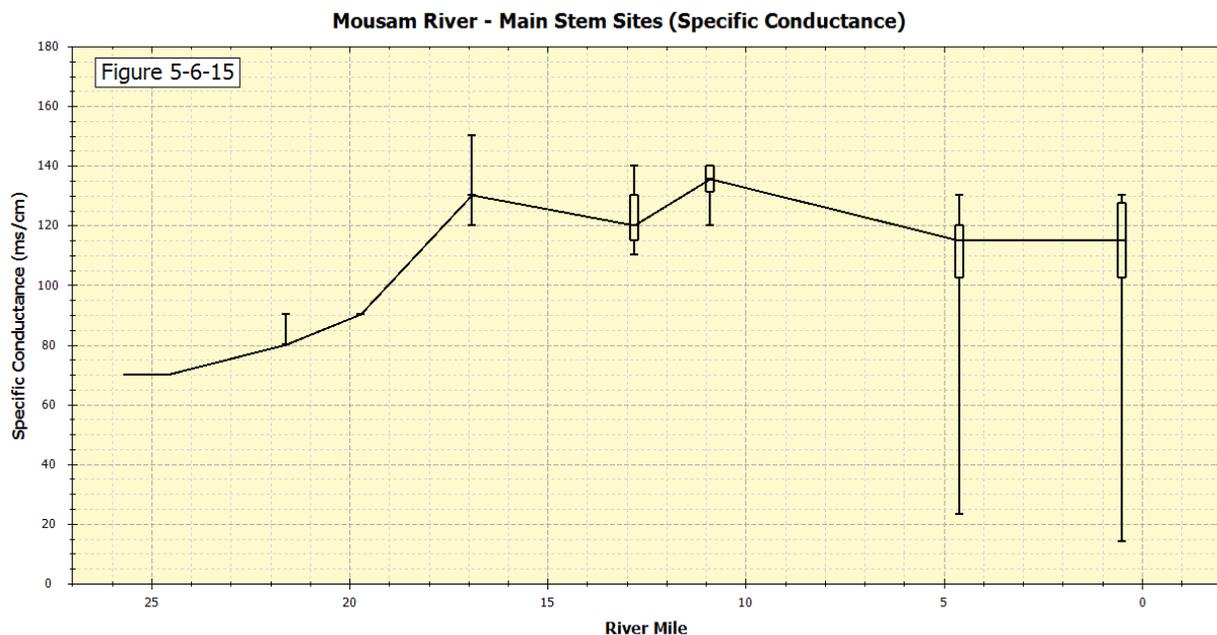
Temperatures on the Mousam River ranged from 15° to 26.0°C (Celsius) over the course of the sampling season. All sites exhibited a typical seasonal pattern of cooler temperatures during the early and late parts of the field season. There are no specific standards to apply to this data set

Temperatures on the tributaries ranged from 12° to 22.0°C, which averaged slightly cooler than the main stem. Tributary sites also exhibited typical seasonal temperature patterns.

No particular concerns are noted.

### Specific Conductance

Specific conductance was measured 4-7 times at all ten freshwater main stem sampling sites (Table 5-6-5) and two of three tributary sampling sites. 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 higher 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.

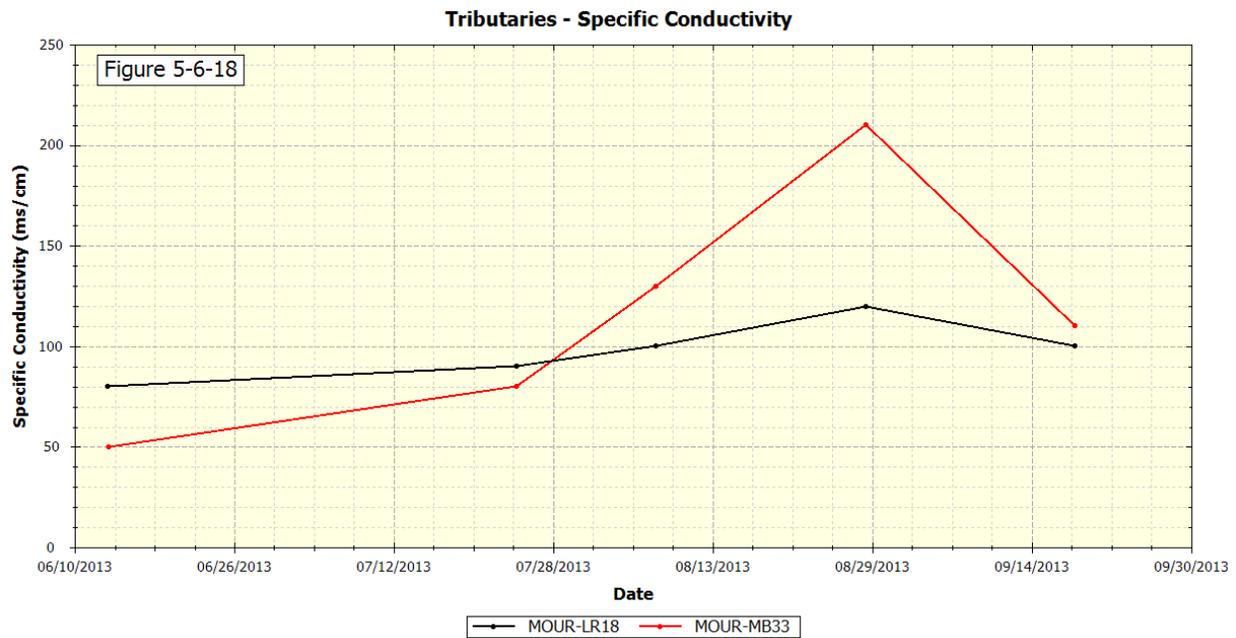


Upper Mousam River - Specific Conductivity



Lower Mousam River - Specific Conductivity





**Table 5-6-5:** A summary of minimum, maximum, and average specific conductivity (ms/cm) values for Mousam and Kennebunk Rivers Alliance monitoring sites on the Mousam River.

Main Stem Sites (Ordered from upstream to downstream)							
Site	Class	# of Observations	Mean	Minimum	Maximum	Criterion	# Exceeding
MOUR-290	B	7	70	70	70	n/a	n/a
MOUR-280	B	7	70	70	70	n/a	n/a
MOUR-250	C	7	82.9	80	90	n/a	n/a
MOUR-232	C	7	91.4	90	100	n/a	n/a
MOUR-204	C	5	128	110	150	n/a	n/a
MOUR-163	C	4	107.5	60	140	n/a	n/a
MOUR-144	B	5	128.2	110	140	n/a	n/a
MOUR-80	B	7	100.4	23	130	n/a	n/a
MOUR-39	B	7	102	14	130	n/a	n/a
MOUR-35	B	7	70	70	70	n/a	n/a
Tributary Sites							
MOUSMB-33	B	5	116	50	210	n/a	n/a
LR-18	B	5	98	80	120	n/a	n/a
BC-02	SB	-	-	-	-	-	-

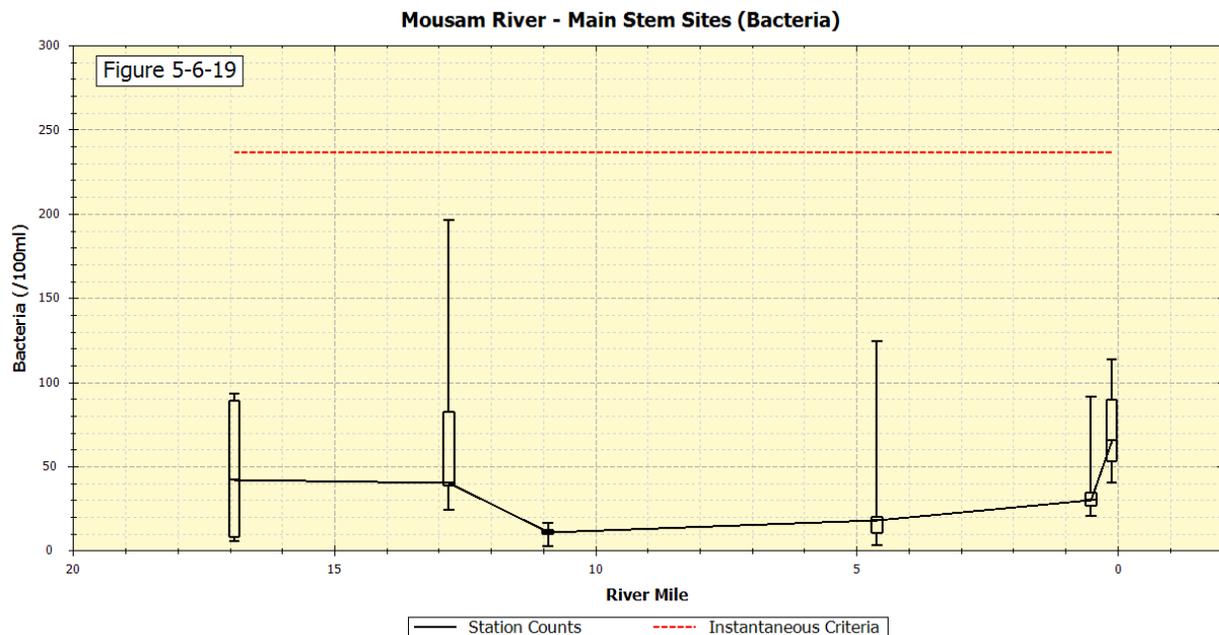
Specific conductance at all the sites was relatively low. Values below 100  $\mu\text{S}/\text{cm}$  are considered to be low. The highest values on the mainstem sites occurred downstream of the urban area around Sanford. The lowest values occurred upstream of Sanford. The highest tributary values were observed on the Upper Middle Branch, but none of the values suggest any element of particular concern.

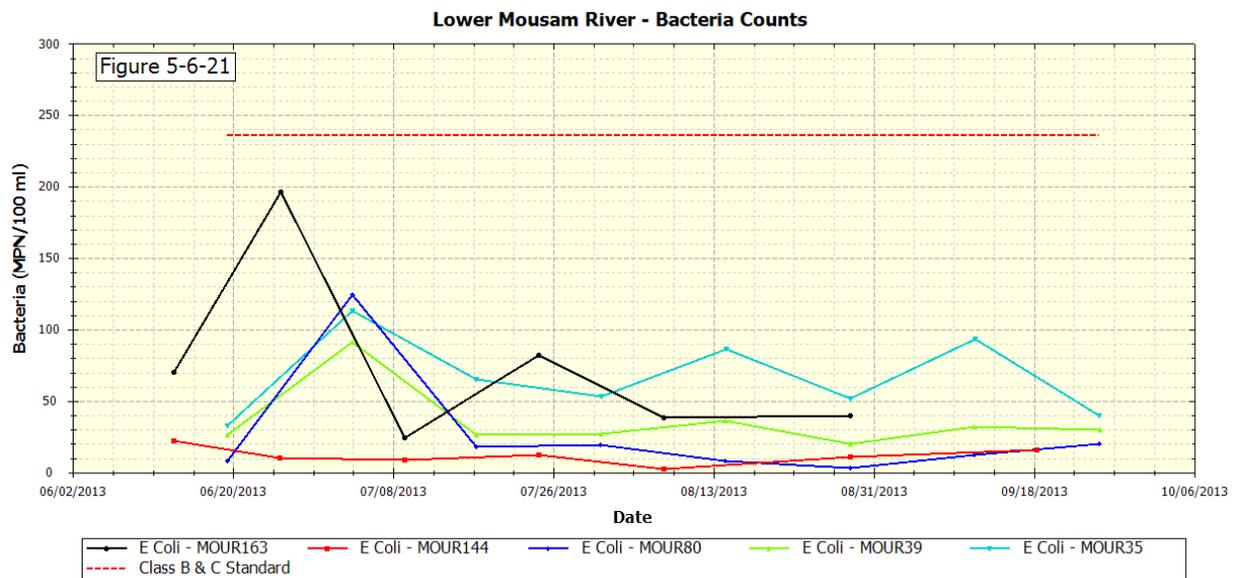
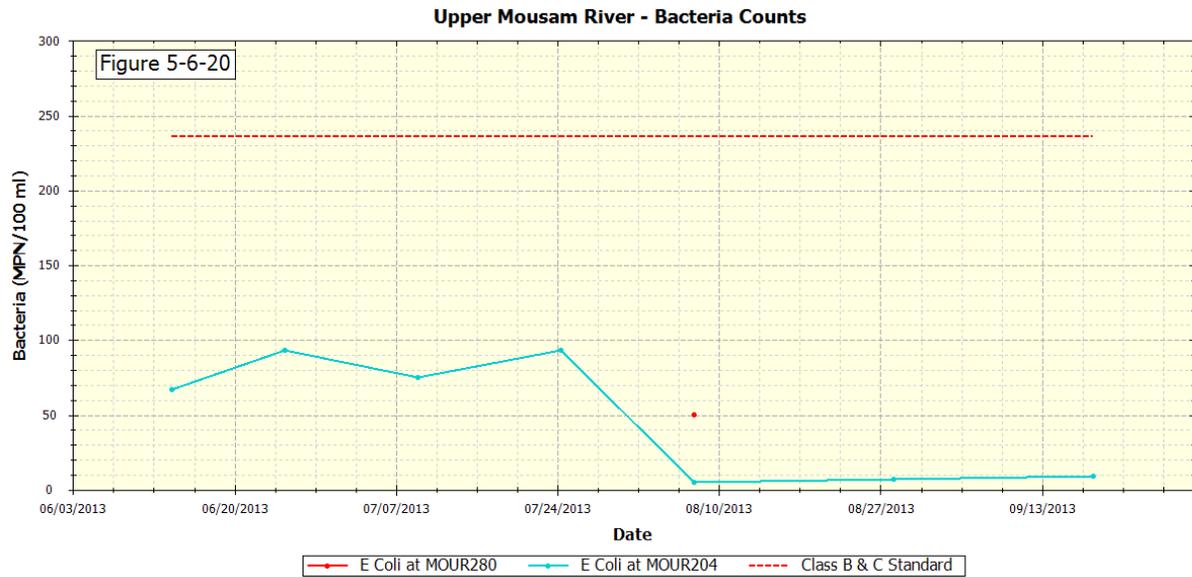
No further concerns are noted.

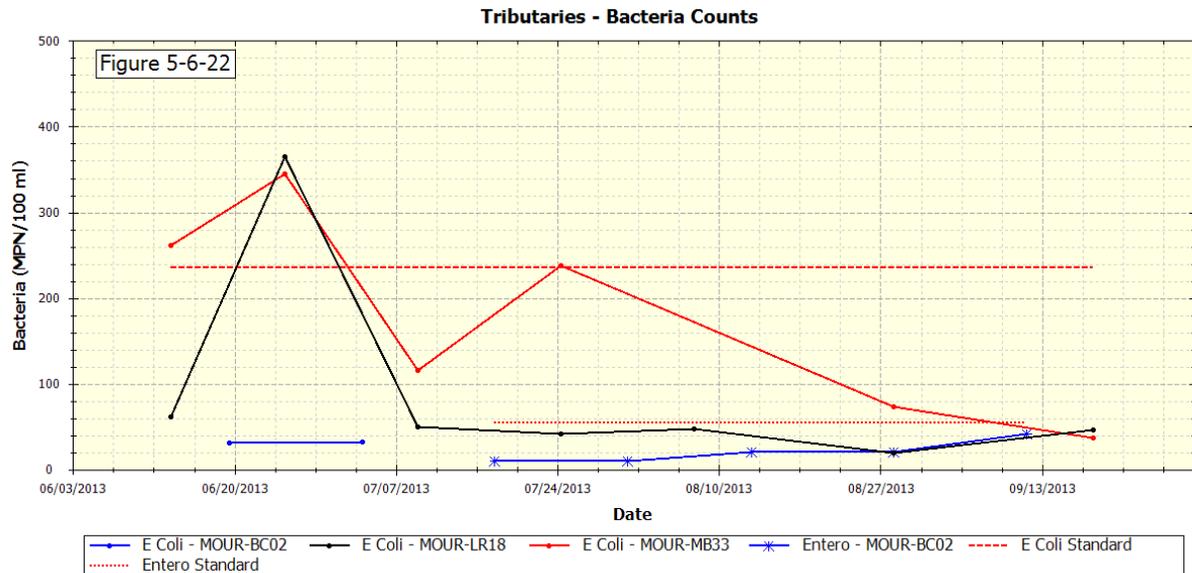
### Bacteria

*Escherichia coli* bacteria were sampled 4-8 times at seven of the freshwater sites (Table 5-6-6). Enterococcus bacteria were sampled 5- 6 times at two of the tidal sites (Table 5-6-6). Monitoring occurred from June through September. 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 15<sup>th</sup> and September 30<sup>th</sup>, 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 15<sup>th</sup> and September 30<sup>th</sup>, 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 15<sup>th</sup> and September 30<sup>th</sup>, 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.







**Table 5-6-6:** 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.

Main Stem Sites (Ordered from upstream to downstream)								
Site	Class	# of Obs.	Type	Min	Max	Geometric Mean	Criterion Inst/Geo	Exceeding
MOUR290	B	-	<i>E. Coli</i>	-	-	-	236/64	-
MOUR280	B	1	<i>E. Coli</i>	50	50	-	236/64	0
MOUR250	C	-	<i>E. Coli</i>	-	-	-	236/126	-
MOUR232	C	-	<i>E. Coli</i>	-	-	-	236/126	-
MOUR204	C	7	<i>E. Coli</i>	5	93	28	236/126	0
MOUR163	C	6	<i>E. Coli</i>	24	196	59	236/126	0
MOUR144	B	7	<i>E. Coli</i>	2	22	10	236/64	0
MOUR80	B	8	<i>E. Coli</i>	3	124	15	236/64	0
MOUR39	B	8	<i>E. Coli</i>	20	91	32	236/64	0
MOUR35	B	8	<i>E. Coli</i>	33	113	62	236/64	0
Tributary Sites								
MOUR-MB33	B	6	<i>E. Coli</i>	37	345	137	236/64	3
MOUR-LR18	B	7	<i>E. Coli</i>	19	365	57	236/64	1
MOUR-BC02	SB	5	<i>Entero</i>	10	41	17.5	54/8	0
MOUR-BC02	SB	2	<i>E. Coli</i>	31	32	-	n/a	-

All main stem sites met instantaneous and corresponding geometric mean standards. All tributaries had excursions: MOUR-MB33 exceeded both the instantaneous and geometric mean Class B standard, MOUR-LR18 exceeded the instantaneous Class B standard, and MOUR-BC02 exceeded the geometric mean Class SB standard. Many of the highest bacteria counts occurred in late June, which appears to be associated with a significant runoff event. Typically, observed high bacterial levels are often associated with stormwater runoff and/or combined sewer overflows.

## Discussion and Recommendations

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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 focus on early morning (before 8:00 am) sampling to best 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 through early September when temperatures are warmest and dissolved oxygen tends to be at the lowest levels. Ideally, all DO monitoring should be conducted before 8:00 am. Later day monitoring is not likely to represent critical conditions, which makes it difficult to assess the overall river condition.

- Occasional morning and afternoon DO monitoring during lower flow portions of the summer would be beneficial in better assessing the root cause of DO non-attainment. Sampling in the early morning and middle afternoon will capture the diurnal variation in DO. A large diurnal variation would be indicative of nutrient enrichment.
- Water temperatures were relatively low in 2013, the result of a fairly wet year with high river flows. In the future, we might consider placing temperature loggers at some of these sites to document daily temperature variations throughout the sampling season.
- Bacteria sampling showed exceedances at tributary sites in 2013. Bacteria violations included both instantaneous criterion and geometric mean criterion. These sites should continue to be monitored and perhaps further investigation made as to the bacteria sources.
- Continue monitoring at all stations to continue building this long term trend database.

Appendix A-1. 2013 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; "D.O." = dissolved oxygen; "Spec. Cond" = specific conductance; "TSS" = total suspended solids.

Refer to Appendix A-2 for observational data and quality assurance/quality control (QA/QC) notes.

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)	Turbidity (NTU)	Total Diss. Solids (MG/L)	** TSS (MG/L)	E Coli Bacteria (MPN/100ML)	Enterococci (MPN/100ML)
<b>Mousam River, Mousam &amp; Kennebunk Rivers Alliance - Approved Sites</b>																
BC-02	BACK CREEK - SMUBC02 - VRMP	6/19/2013	10:21 AM	N			13.9	98.7	10.36							
BC-02	BACK CREEK - SMUBC02 - VRMP	6/19/2013	10:23 AM	N											31	
BC-02	BACK CREEK - SMUBC02 - VRMP	7/3/2013	10:15 AM	N			16	99.7	9.67							
BC-02	BACK CREEK - SMUBC02 - VRMP	7/3/2013	10:25 AM	N											32	
BC-02	BACK CREEK - SMUBC02 - VRMP	7/17/2013	9:21 AM	N			20.4	95.4	8.45							
BC-02	BACK CREEK - SMUBC02 - VRMP	7/17/2013	9:38 AM	N												10
BC-02	BACK CREEK - SMUBC02 - VRMP	7/17/2013	9:38 AM	L												10
BC-02	BACK CREEK - SMUBC02 - VRMP	7/17/2013	9:43 AM	D												10
BC-02	BACK CREEK - SMUBC02 - VRMP	7/31/2013	8:57 AM	N			17.9	95.4	9.08							
BC-02	BACK CREEK - SMUBC02 - VRMP	7/31/2013	9:07 AM	N												10
BC-02	BACK CREEK - SMUBC02 - VRMP	7/31/2013	9:07 AM	L												20
BC-02	BACK CREEK - SMUBC02 - VRMP	7/31/2013	9:11 AM	D												U<10
BC-02	BACK CREEK - SMUBC02 - VRMP	8/13/2013	9:35 AM	N												20
BC-02	BACK CREEK - SMUBC02 - VRMP	8/13/2013	9:47 AM	L												U<10
BC-02	BACK CREEK - SMUBC02 - VRMP	8/14/2013	9:30 AM	N			17.4	78	7.52							
BC-02	BACK CREEK - SMUBC02 - VRMP	8/14/2013	9:35 AM	D												U<10
BC-02	BACK CREEK - SMUBC02 - VRMP	8/14/2013	9:47 AM	D												U<10
BC-02	BACK CREEK - SMUBC02 - VRMP	8/28/2013	9:53 AM	N												20
BC-02	BACK CREEK - SMUBC02 - VRMP	8/28/2013	10:03 AM	N			18.5	76.2	7.21							
BC-02	BACK CREEK - SMUBC02 - VRMP	9/11/2013	9:20 AM	N												41
BC-02	BACK CREEK - SMUBC02 - VRMP	9/11/2013	9:20 AM	L												41
LR-18	LITTLEFIELD RIVER - SMUMBLR18 - VRMP	6/13/2013	7:45 AM	N			16.9	49	4.84	80						62
LR-18	LITTLEFIELD RIVER - SMUMBLR18 - VRMP	6/25/2013	7:19 AM	N												365
LR-18	LITTLEFIELD RIVER - SMUMBLR18 - VRMP	7/9/2013	6:47 AM	N												50
LR-18	LITTLEFIELD RIVER - SMUMBLR18 - VRMP	7/24/2013	7:55 AM	N			22.1	23.1	2.06	90						42
LR-18	LITTLEFIELD RIVER - SMUMBLR18 - VRMP	8/7/2013	7:50 AM	N			20.6	38.4	3.43	100						47
LR-18	LITTLEFIELD RIVER - SMUMBLR18 - VRMP	8/28/2013	8:10 AM	N			22.1	42.7	3.77	120						

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)	Turbidity (NTU)	Total Diss. Solids (MG/L)	** TSS (MG/L)	E Coli Bacteria (MPN/100ML)	Enterococci (MPN/100ML)
LR-18	LITTLEFIELD RIVER - SMUMBLR18 - VRMP	8/28/2013	8:15 AM	N											19	
LR-18	LITTLEFIELD RIVER - SMUMBLR18 - VRMP	9/18/2013	8:15 AM	N			15.2	45.6	4.61	100					46	
MOUSMB-33	MIDDLE BRANCH MOUSAM RIVER - SMUMB33 - VRMP	6/13/2013	8:05 AM	N			14.6	93.3	9.43	50					261	
MOUSMB-33	MIDDLE BRANCH MOUSAM RIVER - SMUMB33 - VRMP	6/25/2013	7:30 AM	N											345	
MOUSMB-33	MIDDLE BRANCH MOUSAM RIVER - SMUMB33 - VRMP	7/9/2013	7:05 AM	N											115	
MOUSMB-33	MIDDLE BRANCH MOUSAM RIVER - SMUMB33 - VRMP	7/24/2013	8:12 AM	N			19.4	90.3	8.34	80					238	
MOUSMB-33	MIDDLE BRANCH MOUSAM RIVER - SMUMB33 - VRMP	8/7/2013	8:05 AM	N			17.1	78.5	7.61	130						
MOUSMB-33	MIDDLE BRANCH MOUSAM RIVER - SMUMB33 - VRMP	8/7/2013	8:05 AM	D			17	79	7.6	130						
MOUSMB-33	MIDDLE BRANCH MOUSAM RIVER - SMUMB33 - VRMP	8/28/2013	8:30 AM	N			17.2	77.7	7.47	210					73	
MOUSMB-33	MIDDLE BRANCH MOUSAM RIVER - SMUMB33 - VRMP	9/18/2013	8:25 AM	N			12.3	83.8	9.01	110					37	
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	6/13/2013	8:55 AM	N			18.8	93.4	8.76	110					22	
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	6/25/2013	6:30 AM	N											10	
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	7/9/2013	6:23 AM	N											9	
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	7/24/2013	8:30 AM	N											12	
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	7/24/2013	9:00 AM	N			24.3	85.36	7.12	131						
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	8/7/2013	8:55 AM	N			22.3	86.7	7.6	120					2	
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	8/28/2013	9:15 AM	N			22.6	89	7.78	140						
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	8/28/2013	9:17 AM	N											11	
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	9/18/2013	8:55 AM	N			18.2	84.6	8.07	140					16	
MOUR-163	MOUSAM RIVER - SMU163 - VRMP	6/13/2013	8:25 AM	N			16.9	90	8.87	60					70	

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)	Turbidity (NTU)	Total Diss. Solids (MG/L)	** TSS (MG/L)	E Coli Bacteria (MPN/100ML)	Enterococci (MPN/100ML)
MOUR-163	MOUSAM RIVER - SMU163 - VRMP	6/25/2013	7:50 AM	N											196	
MOUR-163	MOUSAM RIVER - SMU163 - VRMP	7/9/2013	7:24 AM	N											24	
MOUR-163	MOUSAM RIVER - SMU163 - VRMP	7/24/2013	8:30 AM	N			22.4	87.4	7.67	110						
MOUR-163	MOUSAM RIVER - SMU163 - VRMP	7/24/2013	8:45 AM	N											82	
MOUR-163	MOUSAM RIVER - SMU163 - VRMP	8/7/2013	8:25 AM	N			20.1	80.5	7.29	120					38	
MOUR-163	MOUSAM RIVER - SMU163 - VRMP	8/28/2013	8:45 AM	N			22.7	73.6	6.35	140					40	
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	6/13/2013	8:40 AM	N			17.2	82.4	7.82	110					67	
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	6/25/2013	8:07 AM	N											93	
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	6/25/2013	8:07 AM	L											84	
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	7/9/2013	7:46 AM	N											75	
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	7/9/2013	7:46 AM	L											91	
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	7/24/2013	8:45 AM	N			22.1	78.6	6.98	120						
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	7/24/2013	9:00 AM	N											93	
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	7/24/2013	9:00 AM	L											154	
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	8/7/2013	8:35 AM	N			22.2	88.8	7.7	130					5	
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	8/7/2013	8:35 AM	L											8	
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	8/28/2013	9:00 AM	N			25	90	7.45	150						
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	8/28/2013	9:00 AM	D			24.9	90	7.46	150						
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	8/28/2013	9:03 AM	N											7	
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	8/28/2013	9:03 AM	L											4	

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)	Turbidity (NTU)	Total Diss. Solids (MG/L)	** TSS (MG/L)	E Coli Bacteria (MPN/100ML)	Enterococci (MPN/100ML)
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	9/18/2013	8:45 AM	N			17.5	71.4	6.66	130					9	
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	9/18/2013	9:45 AM	L											18	
MOUR-232	MOUSAM RIVER - SMU232-VRMP	6/25/2013	7:45 AM	N			24.4	94.7	7.9	100						
MOUR-232	MOUSAM RIVER - SMU232-VRMP	7/9/2013	7:45 AM	N			24.6	90.8	7.6	90						
MOUR-232	MOUSAM RIVER - SMU232-VRMP	7/26/2013	7:35 AM	N			21.9	93.1	8	90						
MOUR-232	MOUSAM RIVER - SMU232-VRMP	8/6/2013	7:55 AM	N			22.2	98.2	8.5	90						
MOUR-232	MOUSAM RIVER - SMU232-VRMP	8/20/2013	7:38 AM	N			23.2	98.3	8.4	90						
MOUR-232	MOUSAM RIVER - SMU232-VRMP	9/10/2013	7:45 AM	N			18.3	97.2	8.9	90						
MOUR-232	MOUSAM RIVER - SMU232-VRMP	9/24/2013	7:52 AM	N			16.4	94.9	9.3	90						
MOUR-250	MOUSAM RIVER - SMU250 - VRMP	6/25/2013	7:30 AM	N			23.5	94.1	8	90						
MOUR-250	MOUSAM RIVER - SMU250 - VRMP	7/9/2013	7:30 AM	N			23.6	89.8	7.6	80						
MOUR-250	MOUSAM RIVER - SMU250 - VRMP	7/26/2013	7:25 AM	N			21.6	89.9	7.8	80						
MOUR-250	MOUSAM RIVER - SMU250 - VRMP	8/6/2013	7:40 AM	N			21.7	97.2	8.5	80						
MOUR-250	MOUSAM RIVER - SMU250 - VRMP	8/20/2013	7:50 AM	N			22.3	95.7	8.3	90						
MOUR-250	MOUSAM RIVER - SMU250 - VRMP	9/10/2013	7:30 AM	N			18.1	93.6	8.8	80						
MOUR-250	MOUSAM RIVER - SMU250 - VRMP	9/24/2013	7:40 AM	N			16.2	98.5	9.7	80						
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	6/25/2013	7:15 AM	N			20.8	85.6	7.6	70						
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	7/9/2013	7:20 AM	N			22.7	83.3	7.2	70						
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	7/26/2013	7:20 AM	N			21.8	84.1	7.23	70						
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	8/6/2013	7:20 AM	N			22	98.3	8.6	70						
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	8/7/2013	8:05 AM	N											50	
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	8/20/2013	7:20 AM	N			22.6	89.5	7.7	70						
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	9/10/2013	7:17 AM	N			18.7	89.7	8.2	70						
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	9/10/2013	7:17 AM	D			18.6	89.6	8.2	70						

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)	Turbidity (NTU)	Total Diss. Solids (MG/L)	** TSS (MG/L)	E Coli Bacteria (MPN/100ML)	Enterococci (MPN/100ML)
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	9/24/2013	7:20 AM	N			16.2	94.5	9.4	70						
MOUR-290	MOUSAM RIVER - SMU290 - VRMP	6/25/2013	7:05 AM	N			21.3	90.9	8	70						
MOUR-290	MOUSAM RIVER - SMU290 - VRMP	7/9/2013	7:12 AM	N			24.3	89.1	7.24	70						
MOUR-290	MOUSAM RIVER - SMU290 - VRMP	7/26/2013	7:10 AM	N			24.5	85.4	7.13	70						
MOUR-290	MOUSAM RIVER - SMU290 - VRMP	7/26/2013	7:10 AM	D			24.4	85.3	7.13	70						
MOUR-290	MOUSAM RIVER - SMU290 - VRMP	8/6/2013	7:15 AM	N			23.7	103.6	8.8	70						
MOUR-290	MOUSAM RIVER - SMU290 - VRMP	8/20/2013	7:05 AM	N			23.7	93.6	7.9	70						
MOUR-290	MOUSAM RIVER - SMU290 - VRMP	9/10/2013	7:10 AM	N			20.2	91.2	8.1	70						
MOUR-290	MOUSAM RIVER - SMU290 - VRMP	9/24/2013	7:05 AM	N			18.2	93.4	8.9	70						
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	6/19/2013	9:09 AM	N			18.7	95.3	8.87							
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	6/19/2013	9:15 AM	N											33	
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	7/3/2013	9:15 AM	N			20.4	97.1	8.81							
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	7/3/2013	9:48 AM	N											113	
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	7/17/2013	9:01 AM	N			24.7	93.5	7.72							
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	7/17/2013	9:03 AM	N											65	
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	7/17/2013	9:03 AM	L											74	
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	7/31/2013	8:28 AM	N			22.5	88.6	7.01							
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	7/31/2013	8:35 AM	N											53	
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	8/14/2013	8:55 AM	N			21.4	95.2	8.4							
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	8/14/2013	9:05 AM	N											86	
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	8/28/2013	9:04 AM	N											52	
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	8/28/2013	9:07 AM	N			21.6	90.5	7.84							
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	9/11/2013	8:45 AM	N											93	
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	9/11/2013	8:45 AM	L											96	
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	9/25/2013	9:07 AM	N											40	
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	9/25/2013	9:14 AM	N			14.9	95.1	9.29							
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	6/19/2013	8:29 AM	N			18.9	80.15	7.45	110						
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	6/19/2013	8:48 AM	N											26	
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	7/3/2013	8:45 AM	N			20.5	88.1	7.94	100						
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	7/3/2013	9:08 AM	N											91	
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	7/3/2013	9:08 AM	D											91	
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	7/17/2013	8:39 AM	N			25	83.5	6.88	110						

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)	Turbidity (NTU)	Total Diss. Solids (MG/L)	** TSS (MG/L)	E Coli Bacteria (MPN/100ML)	Enterococci (MPN/100ML)
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	7/17/2013	8:43 AM	N												26
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	7/31/2013	8:11 AM	N			22.6	80.3	6.86	130						
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	7/31/2013	8:12 AM	N												27
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	8/14/2013	8:40 AM	N												36
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	8/14/2013	8:45 AM	N			21.4	87.3	7.61	120						
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	8/28/2013	8:30 AM	N												20
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	8/28/2013	8:38 AM	N			22.6	84.9	7.38	14						
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	9/11/2013	7:50 AM	N												32
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	9/25/2013	8:54 AM	N			15.5	65.9	5.94	130						
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	9/25/2013	9:47 AM	N												30

**Mousam River, Mousam & Kennebunk Rivers Alliance - Non-Approved Sites**

MOUR-80	MOUSAM RIVER - SMU80 - KMA	6/19/2013	8:05 AM	N			19.4	78.9	7.26	100						
MOUR-80	MOUSAM RIVER - SMU80 - KMA	6/19/2013	8:10 AM	N												8
MOUR-80	MOUSAM RIVER - SMU80 - KMA	7/3/2013	8:15 AM	N			20.6	85.3	7.96	100						
MOUR-80	MOUSAM RIVER - SMU80 - KMA	7/3/2013	8:20 AM	N												124
MOUR-80	MOUSAM RIVER - SMU80 - KMA	7/17/2013	8:05 AM	N			25.7	80.9	6.65	110						
MOUR-80	MOUSAM RIVER - SMU80 - KMA	7/17/2013	8:10 AM	N												18
MOUR-80	MOUSAM RIVER - SMU80 - KMA	7/31/2013	7:45 AM	N			22.9	78.9	6.78	120						
MOUR-80	MOUSAM RIVER - SMU80 - KMA	7/31/2013	7:47 AM	N												19
MOUR-80	MOUSAM RIVER - SMU80 - KMA	7/31/2013	7:47 AM	L												16
MOUR-80	MOUSAM RIVER - SMU80 - KMA	8/14/2013	8:15 AM	N			21.8	80.3	7	120						8
MOUR-80	MOUSAM RIVER - SMU80 - KMA	8/28/2013	8:05 AM	N												3
MOUR-80	MOUSAM RIVER - SMU80 - KMA	8/28/2013	8:10 AM	N			21.8	85.7	7.26	23						
MOUR-80	MOUSAM RIVER - SMU80 - KMA	9/11/2013	7:35 AM	N												12
MOUR-80	MOUSAM RIVER - SMU80 - KMA	9/25/2013	8:17 AM	N												20
MOUR-80	MOUSAM RIVER - SMU80 - KMA	9/25/2013	8:17 AM	L												19
MOUR-80	MOUSAM RIVER - SMU80 - KMA	9/25/2013	8:26 AM	N			15.7	42.3	4.04	130						

Appendix A-2. 2013 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  
 Refer to Appendix A-1 for water quality data

Organization Site Code	VRMP Site ID	Date	Time	** Sample Type Qualifier	Flow	Stage	Air Temp (°C)	Sample Location	Current Weather	Air Condition	Past 24HR Weather	Habitat	Tide Stage	Water Appearance	Comments
<b>Mousam River, Mousam &amp; Kennebunk Rivers Alliance - Approved Sites</b>															
BC-02	BACK CREEK - SMUBC02 - VRMP	6/19/2013	10:21 AM	N	BASE FLOW	MED		BRIDGE	CLEAR	CALM	PARTLY CLOUDY	RUN		CLEAR	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.
BC-02	BACK CREEK - SMUBC02 - VRMP	6/19/2013	10:23 AM	N											
BC-02	BACK CREEK - SMUBC02 - VRMP	7/3/2013	10:15 AM	N	BASE FLOW	MED	16.67	BRIDGE	CLOUDY	CALM	SHOWERS	RUN		MEDIUM STAINED	RAINING FOR PAST TWO WEEKS, OUTGOING TIDE NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.
BC-02	BACK CREEK - SMUBC02 - VRMP	7/3/2013	10:25 AM	N											
BC-02	BACK CREEK - SMUBC02 - VRMP	7/17/2013	9:21 AM	N	BASE FLOW	MED		BRIDGE	CLEAR	CALM	CLEAR	RUN		CLEAR	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET. D.O. METER- DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20 MINUTES (15 MINS).
BC-02	BACK CREEK - SMUBC02 - VRMP	7/17/2013	9:38 AM	N											
BC-02	BACK CREEK - SMUBC02 - VRMP	7/17/2013	9:38 AM	L											
BC-02	BACK CREEK - SMUBC02 - VRMP	7/17/2013	9:43 AM	D											
BC-02	BACK CREEK - SMUBC02 - VRMP	7/31/2013	8:57 AM	N	BASE FLOW	MED		BRIDGE	CLEAR	CALM	SHOWERS	RUN		CLEAR	TIDE OUT DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.
BC-02	BACK CREEK - SMUBC02 - VRMP	7/31/2013	9:07 AM	N											
BC-02	BACK CREEK - SMUBC02 - VRMP	7/31/2013	9:07 AM	L											
BC-02	BACK CREEK - SMUBC02 - VRMP	7/31/2013	9:11 AM	D											
BC-02	BACK CREEK - SMUBC02 - VRMP	8/13/2013	9:35 AM	N											
BC-02	BACK CREEK - SMUBC02 - VRMP	8/13/2013	9:47 AM	L											
BC-02	BACK CREEK - SMUBC02 - VRMP	8/14/2013	9:30 AM	N	BASE FLOW	LOW		BRIDGE	CLEAR	CALM	CLEAR	RUN		CLEAR	LOW TIDE NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.
BC-02	BACK CREEK - SMUBC02 - VRMP	8/14/2013	9:35 AM	D											
BC-02	BACK CREEK - SMUBC02 - VRMP	8/14/2013	9:47 AM	D											
BC-02	BACK CREEK - SMUBC02 - VRMP	8/28/2013	9:53 AM	N											
BC-02	BACK CREEK - SMUBC02 - VRMP	8/28/2013	10:03 AM	N	BASE FLOW	LOW	17.78	BRIDGE	PARTLY CLOUDY	CALM	PARTLY CLOUDY	RUN		CLEAR	OUTGOING TIDE NON-WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEETS. DO METER- DID NOT RECORD TIME METER TURNED ON AND CALIBRATED.
BC-02	BACK CREEK - SMUBC02 - VRMP	9/11/2013	9:20 AM	N											
BC-02	BACK CREEK - SMUBC02 - VRMP	9/11/2013	9:20 AM	L											
LR-18	LITTLEFIELD RIVER - SMUMBLR18 - VRMP	6/13/2013	7:45 AM	N	STORM FLOW	HIGH	12.22	BRIDGE	CLEAR		LIGHT RAIN	RUN		MEDIUM STAINED	RAIN YESTERDAY, HEAVY RAIN DAY BEFORE. NON-WADEABLE/MID-DEPTH
LR-18	LITTLEFIELD RIVER - SMUMBLR18 - VRMP	6/25/2013	7:19 AM	N											
LR-18	LITTLEFIELD RIVER - SMUMBLR18 - VRMP	7/9/2013	6:47 AM	N											
LR-18	LITTLEFIELD RIVER - SMUMBLR18 - VRMP	7/24/2013	7:55 AM	N	STORM FLOW	MED	18.89	BRIDGE	CLEAR, FOGGY	CALM	CLOUDY, HEAVY RAIN, LIGHT RAIN	RUN		MEDIUM STAINED	MORNING FOG CLEARED BY 8AM. HEAVY RAIN PREVIOUS DAY - WATER LEVEL HIGHER THAN NORMAL. NON-WADEABLE/MID-DEPTH
LR-18	LITTLEFIELD RIVER - SMUMBLR18 - VRMP	8/7/2013	7:50 AM	N	BASE FLOW	MED	13.89	BRIDGE	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.
LR-18	LITTLEFIELD RIVER - SMUMBLR18 - VRMP	8/28/2013	8:10 AM	N	BASE FLOW	LOW	18.89	BRIDGE	PARTLY CLOUDY	CALM	PARTLY CLOUDY	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
LR-18	LITTLEFIELD RIVER - SMUMBLR18 - VRMP	8/28/2013	8:15 AM	N											
LR-18	LITTLEFIELD RIVER - SMUMBLR18 - VRMP	9/18/2013	8:15 AM	N	BASE FLOW	MED	7.222	BRIDGE	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH

Organization Site Code	VRMP Site ID	Date	Time	** Sample Type Qualifier	Flow	Stage	Air Temp (°C)	Sample Location	Current Weather	Air Condition	Past 24HR Weather	Habitat	Tide Stage	Water Appearance	Comments
MOUSMB-33	MIDDLE BRANCH MOUSAM RIVER - SMUMB33 - VRMP	6/13/2013	8:05 AM	N	STORM FLOW	HIGH	12.22	BRIDGE	CLEAR		LIGHT RAIN	RUN		MEDIUM STAINED	RAIN YESTERDAY, HEAVY RAIN DAY BEFORE. NON-WADEABLE/MID-DEPTH
MOUSMB-33	MIDDLE BRANCH MOUSAM RIVER - SMUMB33 - VRMP	6/25/2013	7:30 AM	N											
MOUSMB-33	MIDDLE BRANCH MOUSAM RIVER - SMUMB33 - VRMP	7/9/2013	7:05 AM	N											
MOUSMB-33	MIDDLE BRANCH MOUSAM RIVER - SMUMB33 - VRMP	7/24/2013	8:12 AM	N	STORM FLOW	MED	18.89	BRIDGE	CLEAR, FOGGY	CALM	CLOUDY, HEAVY RAIN, LIGHT RAIN	RUN		MEDIUM STAINED	MORNING FOG CLEARED BY 8AM. HEAVY RAIN PREVIOUS DAY - WATER LEVEL HIGHER THAN NORMAL. NON-WADEABLE/MID-DEPTH
MOUSMB-33	MIDDLE BRANCH MOUSAM RIVER - SMUMB33 - VRMP	8/7/2013	8:05 AM	N	BASE FLOW	MED	13.89	BRIDGE	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.
MOUSMB-33	MIDDLE BRANCH MOUSAM RIVER - SMUMB33 - VRMP	8/7/2013	8:05 AM	D				BRIDGE							NON-WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.
MOUSMB-33	MIDDLE BRANCH MOUSAM RIVER - SMUMB33 - VRMP	8/28/2013	8:30 AM	N	BASE FLOW	LOW	18.89	BRIDGE	PARTLY CLOUDY	CALM	PARTLY CLOUDY	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
MOUSMB-33	MIDDLE BRANCH MOUSAM RIVER - SMUMB33 - VRMP	9/18/2013	8:25 AM	N	BASE FLOW	MED	7.222	BRIDGE	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	6/13/2013	8:55 AM	N	STORM FLOW	HIGH	12.22	BANK	CLEAR		LIGHT RAIN	RUN		MEDIUM STAINED	RAIN YESTERDAY, HEAVY RAIN DAY BEFORE. NON-WADEABLE/MID-DEPTH
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	6/25/2013	6:30 AM	N											
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	7/9/2013	6:23 AM	N											
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	7/24/2013	8:30 AM	N											
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	7/24/2013	9:00 AM	N	STORM FLOW	HIGH	18.89	WADING	CLEAR, FOGGY	CALM	CLOUDY, HEAVY RAIN, LIGHT RAIN	RUN		MEDIUM STAINED	MORNING FOG CLEARED BY 8AM. HEAVY RAIN PREVIOUS DAY - WATER LEVEL HIGHER THAN NORMAL. WADEABLE/MID-DEPTH
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	8/7/2013	8:55 AM	N	BASE FLOW	MED	13.89	WADING	CLEAR	CALM	CLEAR	RIFFLE		MEDIUM STAINED	WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	8/28/2013	9:15 AM	N	BASE FLOW	LOW	18.89	WADING	PARTLY CLOUDY	CALM	PARTLY CLOUDY	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	8/28/2013	9:17 AM	N											
MOUR-144	MOUSAM RIVER - SMU144 - VRMP	9/18/2013	8:55 AM	N	BASE FLOW	HIGH	7.222	WADING	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-163	MOUSAM RIVER - SMU163 - VRMP	6/13/2013	8:25 AM	N	STORM FLOW	HIGH	12.22	WADING	CLEAR		LIGHT RAIN	RUN		MEDIUM STAINED	RAIN YESTERDAY, HEAVY RAIN DAY BEFORE. WADEABLE/MID-DEPTH
MOUR-163	MOUSAM RIVER - SMU163 - VRMP	6/25/2013	7:50 AM	N											
MOUR-163	MOUSAM RIVER - SMU163 - VRMP	7/9/2013	7:24 AM	N											
MOUR-163	MOUSAM RIVER - SMU163 - VRMP	7/24/2013	8:30 AM	N	STORM FLOW	MED	18.89	WADING	CLEAR, FOGGY	CALM	CLOUDY, HEAVY RAIN, LIGHT RAIN	RUN		MEDIUM STAINED	MORNING FOG CLEARED BY 8AM. HEAVY RAIN PREVIOUS DAY - WATER LEVEL HIGHER THAN NORMAL. WADEABLE/MID-DEPTH
MOUR-163	MOUSAM RIVER - SMU163 - VRMP	7/24/2013	8:45 AM	N											
MOUR-163	MOUSAM RIVER - SMU163 - VRMP	8/7/2013	8:25 AM	N	BASE FLOW	MED	13.89	WADING	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.

Organization Site Code	VRMP Site ID	Date	Time	** Sample Type Qualifier	Flow	Stage	Air Temp (°C)	Sample Location	Current Weather	Air Condition	Past 24HR Weather	Habitat	Tide Stage	Water Appearance	Comments
MOUR-163	MOUSAM RIVER - SMU163 - VRMP	8/28/2013	8:45 AM	N	BASE FLOW	LOW	18.89	WADING	PARTLY CLOUDY	CALM	PARTLY CLOUDY	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	6/13/2013	8:40 AM	N	STORM FLOW	HIGH	12.22	BRIDGE	CLEAR		LIGHT RAIN	RUN		MEDIUM STAINED	RAIN YESTERDAY, HEAVY RAIN DAY BEFORE. NON-WADEABLE/MID-DEPTH
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	6/25/2013	8:07 AM	N											
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	6/25/2013	8:07 AM	L											
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	7/9/2013	7:46 AM	N											
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	7/9/2013	7:46 AM	L											
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	7/24/2013	8:45 AM	N	STORM FLOW	MED	18.89	BRIDGE	CLEAR, FOGGY		CLOUDY, HEAVY RAIN, LIGHT RAIN	RUN		MEDIUM STAINED	MORNING FOG CLEARED BY 8AM. HEAVY RAIN PREVIOUS DAY - WATER LEVEL HIGHER THAN NORMAL. NON-WADEABLE/MID-DEPTH
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	7/24/2013	9:00 AM	N											
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	7/24/2013	9:00 AM	L											
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	8/7/2013	8:35 AM	N	BASE FLOW	MED	13.89	BRIDGE	CLEAR	CALM	CLEAR	RIFFLE		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	8/7/2013	8:35 AM	L											
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	8/28/2013	9:00 AM	N	BASE FLOW	MED	18.89	BRIDGE	PARTLY CLOUDY	CALM	PARTLY CLOUDY	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	8/28/2013	9:00 AM	D				BRIDGE							NON-WADEABLE/MID-DEPTH
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	8/28/2013	9:03 AM	N											
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	8/28/2013	9:03 AM	L											
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	9/18/2013	8:45 AM	N	BASE FLOW	MED	7.222	BRIDGE	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
MOUR-204	MOUSAM RIVER - SMU204 - VRMP	9/18/2013	9:45 AM	L											
MOUR-232	MOUSAM RIVER - SMU232-VRMP	6/25/2013	7:45 AM	N	BASE FLOW	MED	22.22	WADING	PARTLY CLOUDY	CALM	CLEAR, SHOWERS	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-232	MOUSAM RIVER - SMU232-VRMP	7/9/2013	7:45 AM	N	BASE FLOW	MED	21.67	WADING	CLOUDY	CALM	CLOUDY, HEAVY RAIN, SHOWERS	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-232	MOUSAM RIVER - SMU232-VRMP	7/26/2013	7:35 AM	N	STORM FLOW	MED	24.44	WADING	SHOWERS	CALM	SHOWERS	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-232	MOUSAM RIVER - SMU232-VRMP	8/6/2013	7:55 AM	N	BASE FLOW	MED	26.11	WADING	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-232	MOUSAM RIVER - SMU232-VRMP	8/20/2013	7:38 AM	N	BASE FLOW	LOW	20	WADING	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-232	MOUSAM RIVER - SMU232-VRMP	9/10/2013	7:45 AM	N	BASE FLOW	LOW	12.22	WADING	CLEAR, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-232	MOUSAM RIVER - SMU232-VRMP	9/24/2013	7:52 AM	N	BASE FLOW	LOW	7.222	WADING	CLEAR		CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
MOUR-250	MOUSAM RIVER - SMU250 - VRMP	6/25/2013	7:30 AM	N	BASE FLOW	MED	22.22	WADING	PARTLY CLOUDY	CALM	CLEAR, SHOWERS	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH

Organization Site Code	VRMP Site ID	Date	Time	** Sample Type Qualifier	Flow	Stage	Air Temp (°C)	Sample Location	Current Weather	Air Condition	Past 24HR Weather	Habitat	Tide Stage	Water Appearance	Comments
MOUR-250	MOUSAM RIVER - SMU250 - VRMP	7/9/2013	7:30 AM	N	BASE FLOW	MED	21.67	WADING	CLOUDY	CALM	CLOUDY, HEAVY RAIN, SHOWERS	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-250	MOUSAM RIVER - SMU250 - VRMP	7/26/2013	7:25 AM	N	STORM FLOW	MED	24.44	WADING	SHOWERS	CALM	SHOWERS	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-250	MOUSAM RIVER - SMU250 - VRMP	8/6/2013	7:40 AM	N	BASE FLOW	MED	26.11	WADING	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-250	MOUSAM RIVER - SMU250 - VRMP	8/20/2013	7:50 AM	N	BASE FLOW	LOW	20	WADING	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-250	MOUSAM RIVER - SMU250 - VRMP	9/10/2013	7:30 AM	N	BASE FLOW	LOW	12.22	WADING	CLEAR, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-250	MOUSAM RIVER - SMU250 - VRMP	9/24/2013	7:40 AM	N	BASE FLOW	LOW	7.222	WADING	CLEAR		CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	6/25/2013	7:15 AM	N	BASE FLOW	MED	22.22	WADING	PARTLY CLOUDY	CALM	CLEAR, SHOWERS	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	7/9/2013	7:20 AM	N	BASE FLOW	MED	21.67	WADING	CLOUDY	CALM	CLOUDY, HEAVY RAIN, SHOWERS	RUN		CLEAR	WADEABLE/MID-DEPTH
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	7/26/2013	7:20 AM	N	STORM FLOW	MED	24.44	WADING	SHOWERS	CALM	SHOWERS	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	8/6/2013	7:20 AM	N	BASE FLOW	MED	26.11	WADING	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	8/7/2013	8:05 AM	N											
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	8/20/2013	7:20 AM	N	BASE FLOW	LOW	20	WADING	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH TIME SAMPLED WAS NOT WRITTEN DOWN, SO ESTIMATE WAS DERIVED BY LOOKING AT OTHER SAMPLE DATES (10-20 MINUTES APART).
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	9/10/2013	7:17 AM	N	BASE FLOW	LOW	12.22	WADING	CLEAR, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	9/10/2013	7:17 AM	D				WADING							NON-WADEABLE/MID-DEPTH
MOUR-280	MOUSAM RIVER - SMU280 - VRMP	9/24/2013	7:20 AM	N	BASE FLOW	LOW	7.222	WADING	CLEAR		CLEAR	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-290	MOUSAM RIVER - SMU290 - VRMP	6/25/2013	7:05 AM	N	BASE FLOW	MED	22.22	BANK	PARTLY CLOUDY	CALM	CLEAR, SHOWERS	RUN		CLEAR	NON-WADEABLE/MID-DEPTH
MOUR-290	MOUSAM RIVER - SMU290 - VRMP	7/9/2013	7:12 AM	N	BASE FLOW	MED	21.67	BANK	CLOUDY	CALM	CLOUDY, HEAVY RAIN, SHOWERS	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
MOUR-290	MOUSAM RIVER - SMU290 - VRMP	7/26/2013	7:10 AM	N	STORM FLOW	MED	24.44	BANK	SHOWERS	CALM	SHOWERS	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
MOUR-290	MOUSAM RIVER - SMU290 - VRMP	7/26/2013	7:10 AM	D				BANK							NON-WADEABLE/MID-DEPTH
MOUR-290	MOUSAM RIVER - SMU290 - VRMP	8/6/2013	7:15 AM	N	BASE FLOW	MED	26.11	BANK	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
MOUR-290	MOUSAM RIVER - SMU290 - VRMP	8/20/2013	7:05 AM	N	BASE FLOW	LOW	20	BANK	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
MOUR-290	MOUSAM RIVER - SMU290 - VRMP	9/10/2013	7:10 AM	N	BASE FLOW	LOW	12.22	BANK	CLEAR, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH

Organization Site Code	VRMP Site ID	Date	Time	** Sample Type Qualifier	Flow	Stage	Air Temp (°C)	Sample Location	Current Weather	Air Condition	Past 24HR Weather	Habitat	Tide Stage	Water Appearance	Comments
MOUR-290	MOUSAM RIVER - SMU290 - VRMP	9/24/2013	7:05 AM	N	BASE FLOW	LOW	7.222	BANK	CLEAR		CLEAR	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	6/19/2013	9:09 AM	N	BASE FLOW	HIGH		BANK	CLEAR	CALM	PARTLY CLOUDY	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE D.O. METER- DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20 MINUTES (15 MIN).
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	6/19/2013	9:15 AM	N											
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	7/3/2013	9:15 AM	N	BASE FLOW	HIGH	16.67	BANK	CLOUDY	CALM	SHOWERS	RUN		MEDIUM STAINED	RAINING FOR PAST TWO WEEKS NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET. TIME SAMPLED WAS NOT WRITTEN DOWN, SO ESTIMATE WAS DERIVED BY LOOKING AT OTHER SAMPLE TIMES. D..O. METER- DID NOT ALLOW IT TO WARM UP FOR AT LEAST
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	7/3/2013	9:48 AM	N											
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	7/17/2013	9:01 AM	N	BASE FLOW	MED		BANK	CLEAR	CALM	CLEAR	RUN		CLEAR	ROGERS POND TRACE OF OIL SLICK IN STILL WATER. NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET. D.O. METER- DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20 MINUTES (15 MINS).
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	7/17/2013	9:03 AM	N											
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	7/17/2013	9:03 AM	L											
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	7/31/2013	8:28 AM	N	BASE FLOW	HIGH		BANK	CLEAR		SHOWERS	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	7/31/2013	8:35 AM	N											
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	8/14/2013	8:55 AM	N	BASE FLOW	LOW		BANK	CLEAR	CALM	CLEAR	CASCADE		CLEAR	TIDE OUT NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	8/14/2013	9:05 AM	N											
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	8/28/2013	9:04 AM	N											
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	8/28/2013	9:07 AM	N	BASE FLOW	LOW	17.78	BANK	PARTLY CLOUDY	CALM	PARTLY CLOUDY	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEETS. DO METER- DID NOT RECORD TIME METER TURNED ON AND CALIBRATED.
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	9/11/2013	8:45 AM	N											
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	9/11/2013	8:45 AM	L											
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	9/25/2013	9:07 AM	N											
MOUR-35	MOUSAM RIVER - SMU35 - VRMP	9/25/2013	9:14 AM	N	BASE FLOW	LOW		BANK	CLEAR	CALM	PARTLY CLOUDY	RUN		CLEAR	TIDE OUT NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	6/19/2013	8:29 AM	N	BASE FLOW	HIGH		BANK	CLEAR	CALM	PARTLY CLOUDY	RUN		MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET. D.O. METER-DID NOT ALLOW IT TO WARM UP 20 MINUTES (15 MIN).
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	6/19/2013	8:48 AM	N											
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	7/3/2013	8:45 AM	N	BASE FLOW	HIGH	16.67	BANK	CLOUDY	CALM	SHOWERS	RUN		DARKLY STAINED	RAINING FOR PAST TWO WEEKS NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET. TIME SAMPLED WAS NOT WRITTEN DOWN, SO ESTIMATED DERIVED BY LOOKING AT OTHER SAMPLE TIMES. D..O. METER- DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	7/3/2013	9:08 AM	N											
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	7/3/2013	9:08 AM	D											
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	7/17/2013	8:39 AM	N	BASE FLOW	HIGH		BANK	CLEAR	CALM	CLEAR	RIFFLE		MEDIUM STAINED	BERRY CT. SOME OIL SLICK OR FILM. NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET. D.O. METER- DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20 MINUTES (15 MINS).
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	7/17/2013	8:43 AM	N											
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	7/31/2013	8:11 AM	N	BASE FLOW	HIGH		BANK	CLEAR	CALM	SHOWERS	RIFFLE		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	7/31/2013	8:12 AM	N											
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	8/14/2013	8:40 AM	N											
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	8/14/2013	8:45 AM	N	BASE FLOW	HIGH		BANK	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	8/28/2013	8:30 AM	N											
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	8/28/2013	8:38 AM	N	BASE FLOW	HIGH	17.78	BANK	PARTLY CLOUDY	CALM	PARTLY CLOUDY	RIFFLE		CLEAR	SLICK ON WATER NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEETS. DO METER- DID NOT RECORD TIME METER TURNED ON AND CALIBRATED.
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	9/11/2013	7:50 AM	N											
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	9/25/2013	8:54 AM	N	BASE FLOW	HIGH		BANK	CLEAR	CALM	PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.

Organization Site Code	VRMP Site ID	Date	Time	** Sample Type Qualifier	Flow	Stage	Air Temp (°C)	Sample Location	Current Weather	Air Condition	Past 24HR Weather	Habitat	Tide Stage	Water Appearance	Comments
MOUR-39	MOUSAM RIVER - SMU39 - VRMP	9/25/2013	9:47 AM	N											

**Mousam River, Mousam & Kennebunk Rivers Alliance - Non-approved Sites**

MOUR-80	MOUSAM RIVER - SMU80 - KMA	6/19/2013	8:05 AM	N	BASE FLOW	HIGH		BANK	CLEAR	CALM	PARTLY CLOUDY	RUN		MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET. D.O. METER-DID NOT ALLOW IT TO WARM UP 20 MINUTES (15 MIN).
MOUR-80	MOUSAM RIVER - SMU80 - KMA	6/19/2013	8:10 AM	N											
MOUR-80	MOUSAM RIVER - SMU80 - KMA	7/3/2013	8:15 AM	N	BASE FLOW	HIGH	16.67	BANK	CLOUDY	CALM	SHOWERS	RUN		DARKLY STAINED	RAINING FOR PAST TWO WEEKS NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET. D..O. METER- DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20 MINUTES (5 MIN).
MOUR-80	MOUSAM RIVER - SMU80 - KMA	7/3/2013	8:20 AM	N											
MOUR-80	MOUSAM RIVER - SMU80 - KMA	7/17/2013	8:05 AM	N	BASE FLOW	HIGH		BANK	CLEAR	CALM	CLEAR	RIFFLE		MEDIUM STAINED	MILL ST. OIL SLICK OR FILM. NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET. D.O. METER- DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20 MINUTES (15 MINS).
MOUR-80	MOUSAM RIVER - SMU80 - KMA	7/17/2013	8:10 AM	N											
MOUR-80	MOUSAM RIVER - SMU80 - KMA	7/31/2013	7:45 AM	N	BASE FLOW	HIGH		BANK	CLEAR	CALM	SHOWERS	RIFFLE		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.
MOUR-80	MOUSAM RIVER - SMU80 - KMA	7/31/2013	7:47 AM	N											
MOUR-80	MOUSAM RIVER - SMU80 - KMA	7/31/2013	7:47 AM	L											
MOUR-80	MOUSAM RIVER - SMU80 - KMA	8/14/2013	8:15 AM	N	BASE FLOW	HIGH		BANK	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.
MOUR-80	MOUSAM RIVER - SMU80 - KMA	8/28/2013	8:05 AM	N											
MOUR-80	MOUSAM RIVER - SMU80 - KMA	8/28/2013	8:10 AM	N	BASE FLOW	HIGH	17.78	BANK	PARTLY CLOUDY	CALM	PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEETS. DO METER- DID NOT RECORD TIME METER TURNED ON AND CALIBRATED.
MOUR-80	MOUSAM RIVER - SMU80 - KMA	9/11/2013	7:35 AM	N											
MOUR-80	MOUSAM RIVER - SMU80 - KMA	9/25/2013	8:17 AM	N											
MOUR-80	MOUSAM RIVER - SMU80 - KMA	9/25/2013	8:17 AM	L											
MOUR-80	MOUSAM RIVER - SMU80 - KMA	9/25/2013	8:26 AM	N	BASE FLOW	HIGH		BANK	CLEAR	CALM	PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE DID NOT COMPLETE CHAIN OF CUSTODY FOR DATASHEET.