

Section 5-5

Kennebunk 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 (MKA) 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 Kennebunk River is located in Southern Maine and originates in Kennebunk Pond in Lyman. The river is 15 miles long and flows from Lyman in York County to the Gulf of Maine in the town of Kennebunk. The primary impacts to the river come from development, recreational use, and agriculture. In recent years, the Kennebunk River has experienced high bacteria counts believed to be associated with faulty septic systems, livestock, and overboard discharges. In 2012, MKA partnered with the DEP TMDL Streams staff to monitor bacteria in Duck Brook-a major tributary to Kennebunk River.

The statutory water class of the Kennebunk River is Class B and below head of tide, the river is Class SB. In a 2005 DEP biomonitoring assessment, a macroinvertebrate monitoring location on the lower half of the river between Arundel and Kennebunk did not attain Class B standards, but did meet standards in 2010. Algae biomonitoring sampling at this same station did not meet class in either 2005 or 2010. Ward Brook was also sampled in 2010 and the results were indeterminate-the stream will be resampled when Southern Maine rivers and streams are sampled in the next rotation cycle.

The Department of Environmental Protection “2012 Integrated Water Quality Monitoring and Assessment Report” lists Kennebunk River in three categories:

-Category 2: Rivers and Streams Attaining Some Designated Uses- Insufficient Information for Other Uses: Kennebunk River and its tributaries

-Category 3: Rivers and Streams with Insufficient Data or Information to Determine if Designated Uses are Attained (One or More Uses may be Impaired):

Kennebunk River – Ward Brook to Kennebunk Landing; 5/23/2012-New Category 3 listing for aquatic life use: biomonitoring station S-270 showed algae (periphyton) Class C results in 2004 and 2010. Resampling needed to confirm whether impairment exists.

-Category 4A: Rivers and Streams with Impaired Use Other than Mercury, TMDL Completed: 9/28/2009-Recreational use impairments now Category 4-A due to approval of Statewide Bacteria TMDL.

The overall purpose of monitoring is to assess water quality data to determine whether the river is meeting water quality classification standards. The Kennebunk 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.

Methods

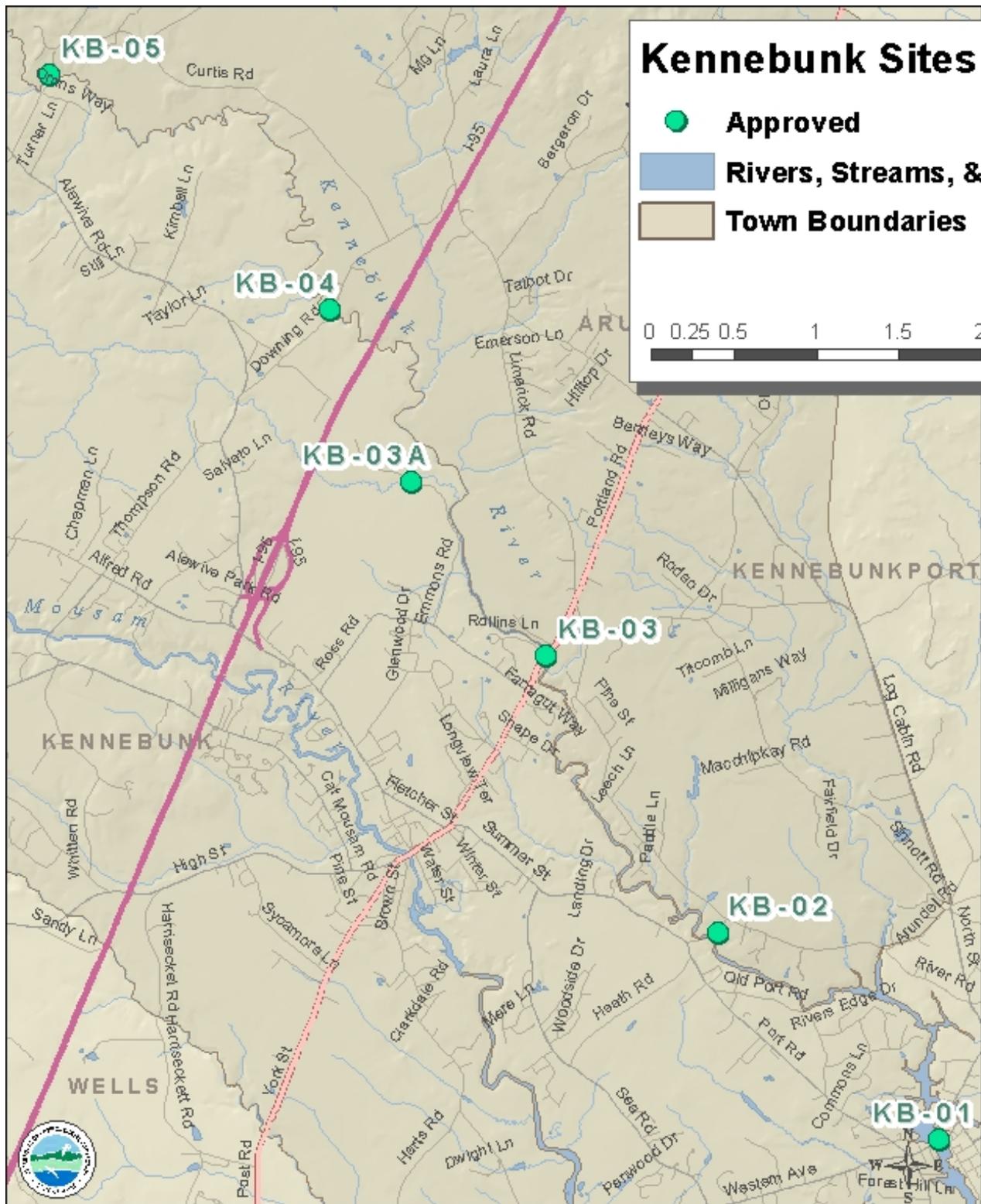
The volunteers monitored the Kennebunk River in 2013 at five stations on the main stem and at one station on Ward Brook (Table 5-5-1 and Figure 5-5-1). Two of the stations [KB-01 and KB-02] are below head of tide and four [KB-03, KB-04, KB-05 and KB-03A] are freshwater sites. All of the Kennebunk River sites are VRMP approved sites.

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

VRMP Site ID	Organization Site Code	Sample Location	Class
Kennebunk River-SKE11-VRMP	KB-01	Route 9 Bridge	SB
Kennebunk River-SKE35-VRMP	KB-02	Durrell's Bridge	SB
Kennebunk River-SKE66-VRMP	KB-03	Route 1 Bridge	B
Kennebunk River-SKE103-VRMP	KB-04	Downing Road	B
Kennebunk River-SKE148-VRMP	KB-05	Perkins Lane	B
Ward Brook-SKEWD04-VRMP	KB-03A	Emmons Road	B

Monitoring was conducted biweekly from June through September. 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+/11 Testr conductivity pen and salinity was measured at the tidal sites. Grab samples were collected for *E. coli* bacteria at the freshwater sites and Enterococcus bacteria at the sites below head of tide. Bacteria samples were transported to Nelson Labs for analysis.

2013 Kennebunk River Sampling Sites Mousam and Kennebunk Rivers Alliance



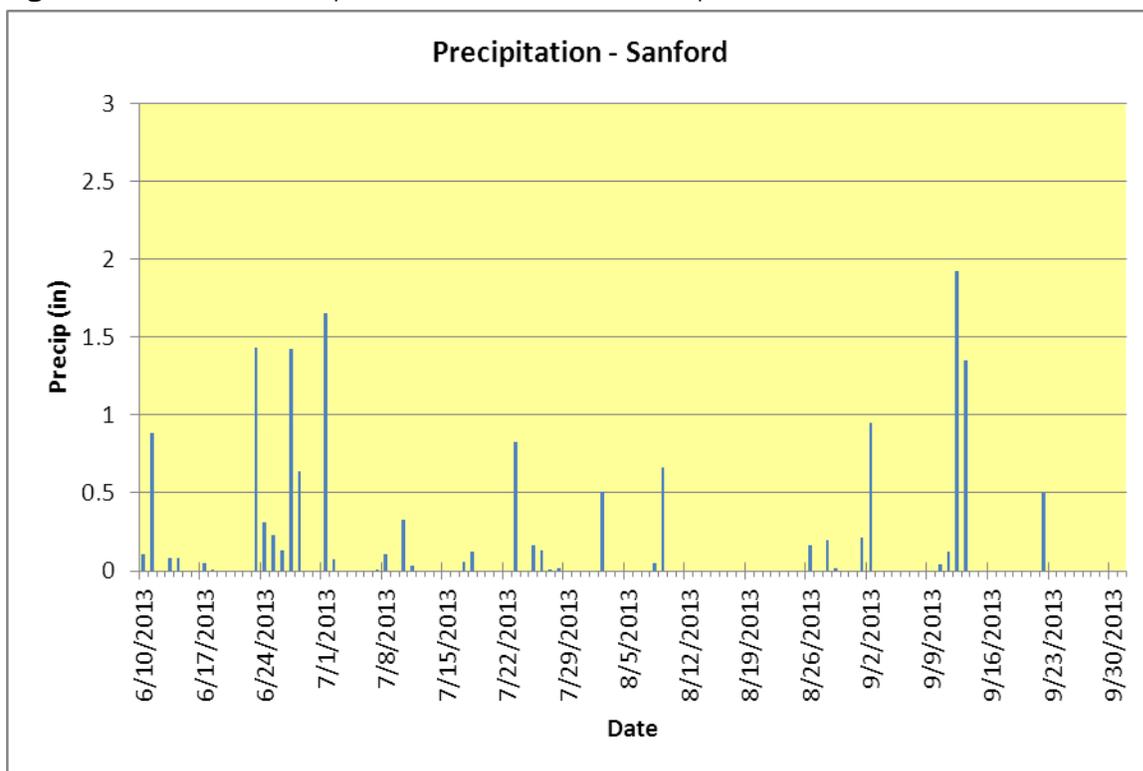
Results

Refer to Appendices A-1 and A-2 in discussion of individual site data and trends, as well as graphed data (Figures 5-5-3 through 5-5-8).

Precipitation

Figure 5-5-2 provides a graph of rainfall 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. Summer/early Fall 2013 was wet with significant rain events in late June-early July and September.

Figure 5-5-2: Seasonal Precipitation Measured at Sanford Airport



Dissolved Oxygen

Dissolved oxygen was measured 8 times at each of the six sampling sites (Figure 5-5-3 and Figure 5-5-4; Tables 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. To meet water quality criteria, both concentration and saturation standards must be met. The Class SB standard is 85% saturation.

Figure 5-5-3: Graph of dissolved oxygen concentrations.

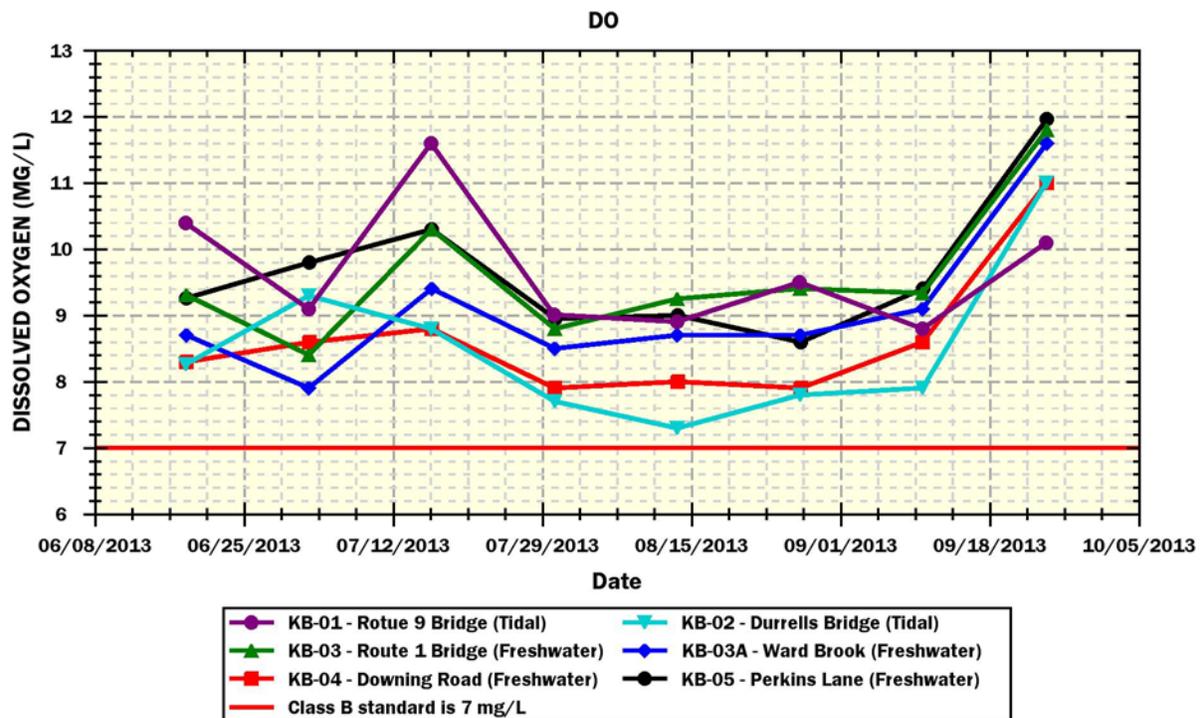
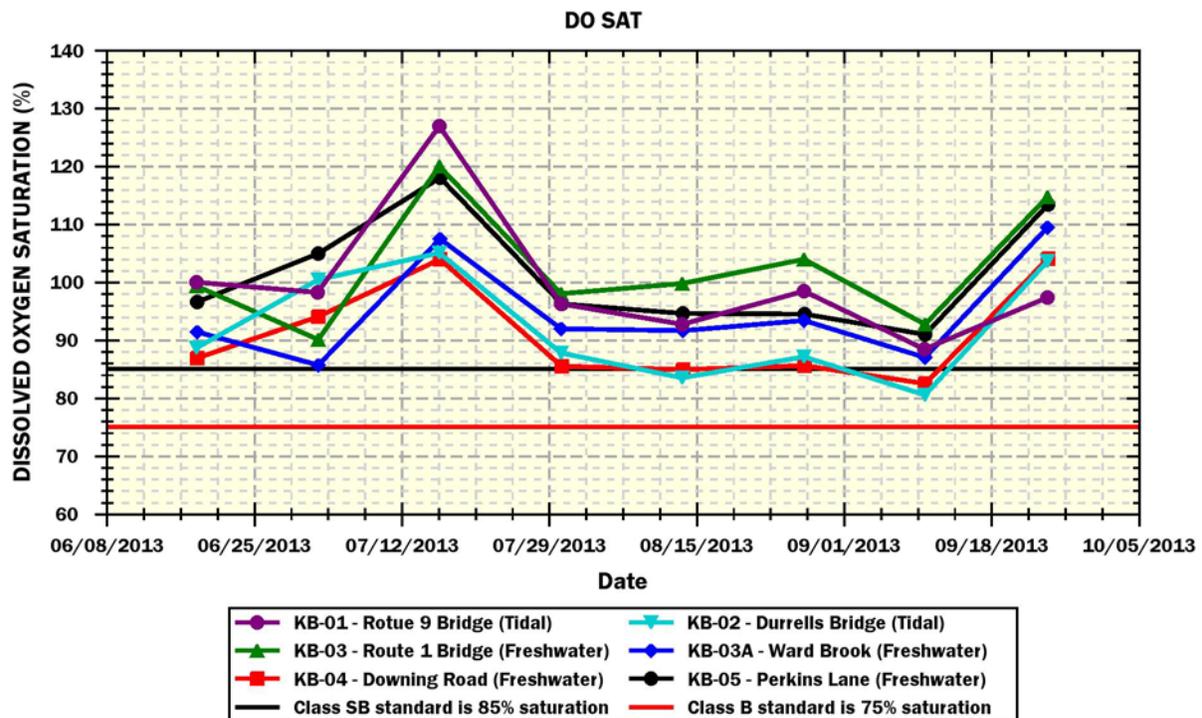


Table 5-5-2: A summary of minimum, maximum, and average dissolved oxygen concentration (mg/l) values at Mousam and Kennebunk Rivers Alliance monitoring sites on the Kennebunk River and tributary.

Site	Approved Site	# of Samples	Minimum Value	Maximum Value	Average Value
KB-01	Y	8	8.8	11.6	9.7
KB-02	Y	8	7.3	11.0	8.5
KB-03	Y	8	8.4	11.8	9.6
KB-03A	Y	8	7.9	11.6	9.1
KB-04	Y	8	7.9	11.0	8.6
KB-05	Y	8	8.6	12.0	9.7

Figure 5-5-4: Graph of dissolved oxygen saturation**Table 5-5-3:** A summary of minimum, maximum, and average dissolved oxygen saturation (%) values at Mousam and Kennebunk Rivers Alliance monitoring sites on the Kennebunk River and tributary.

Site	Approved Site	# of Samples	Minimum Value	Maximum Value	Average Value
KB-01	Y	8	88.5	127.0	99.8
KB-02	Y	8	80.5	105.1	92.1
KB-03	Y	8	90.1	120.0	102.4
KB-03A	Y	8	85.7	109.5	94.8
KB-04	Y	8	82.5	104.1	91.0
KB-05	Y	8	91.0	118.0	101.2

Dissolved oxygen concentrations measured at Kennebunk River sites ranged from 7.3 mg/l to 12.0 mg/l. At Site KB-02, dissolved oxygen saturation dropped slightly below the Class SB standard of 85% saturation on two dates (8/13/13 and 9/10/13). Overall, the tidal Sites KB-01 and KB-02 were better than in 2012. All of the freshwater sites were above the Class B standard for both concentration (7.0 mg/l) and saturation (75%). For the freshwater sites, Sites KB-03 and KB-05 were similar with the exception of one date, Site KB-04 had lower values and Site KB-03A was in-between with the exception of one date.

The monitors improved on getting out to the sites earlier in the morning. With the exception of Site KB-04 and Site KB-05, monitoring generally occurred before 9:00am. Since one monitoring team does all the sites, it is difficult to get to all the sites early. Dissolved oxygen levels are generally lowest early in the morning and then increase during the day, peaking mid-late afternoon. 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 8 times at each of the six sampling sites (Figure 5-5-5 and 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.

Figure 5-5-5: Graph of water temperature

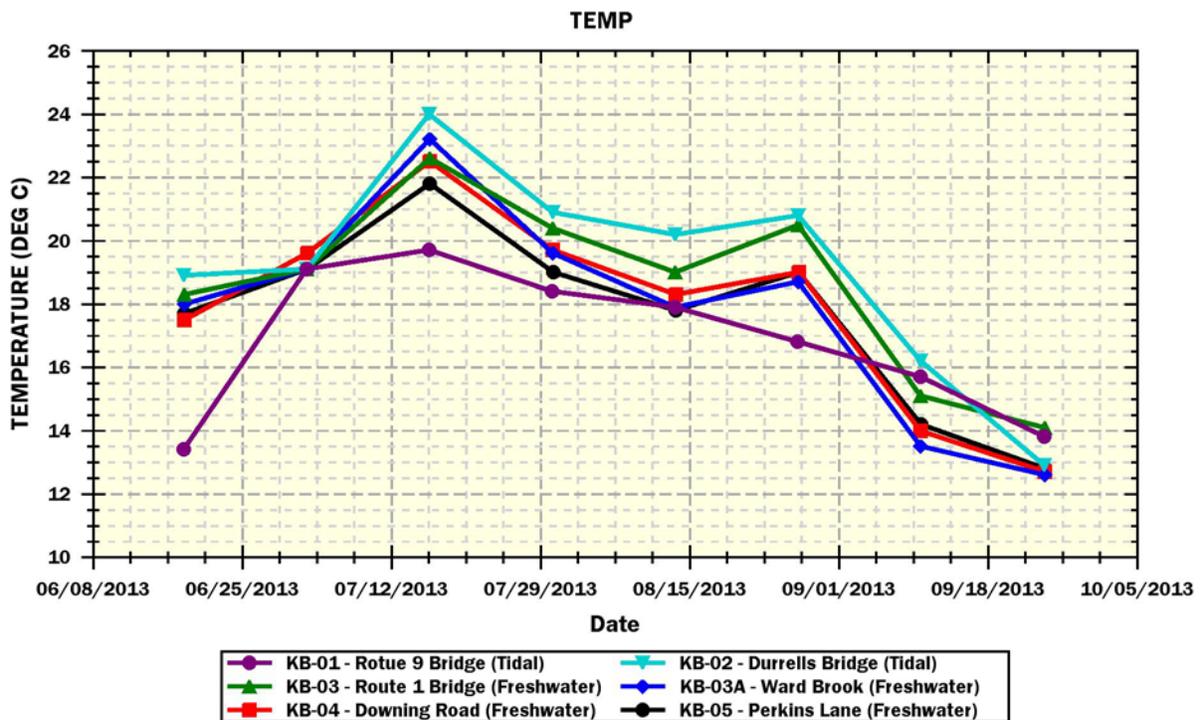


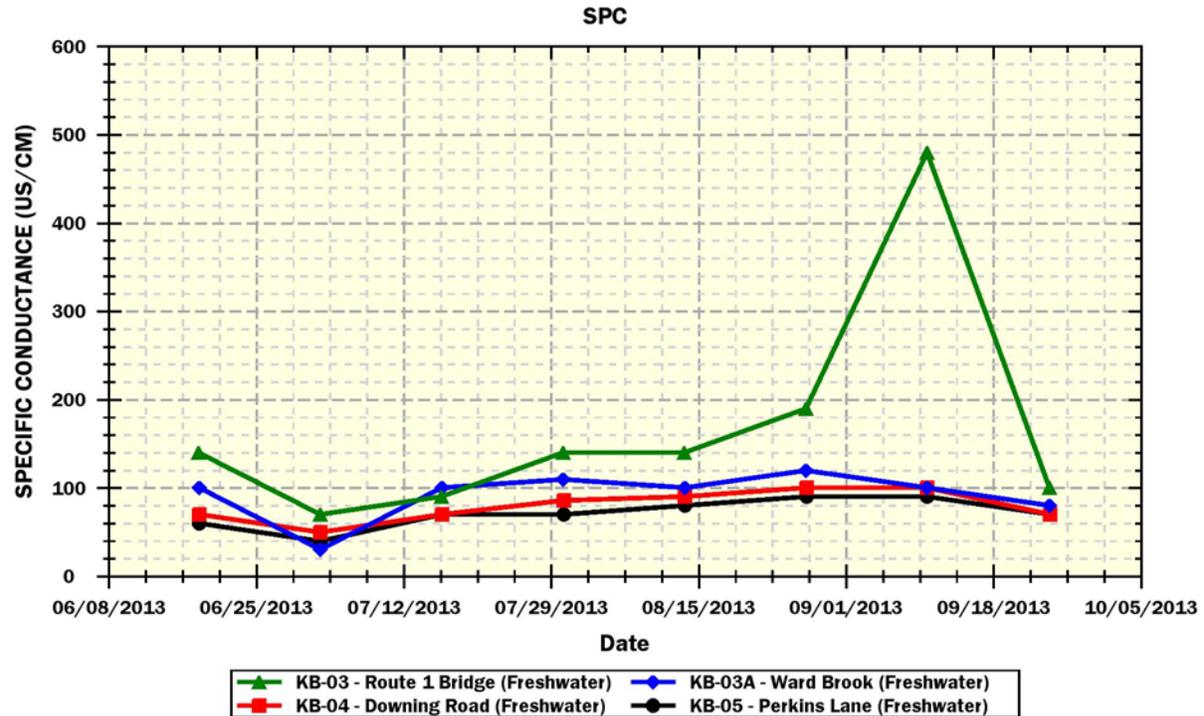
Table 5-5-4: A summary of minimum, maximum, and water temperature (°C) values at Mousam and Kennebunk Rivers Alliance monitoring sites on the Kennebunk River and tributary.

Site	Approved Site	# of Samples	Minimum Value	Maximum Value	Average Value
KB-01	Y	8	13.4	19.7	16.9
KB-02	Y	8	12.9	24.0	19.1
KB-03	Y	8	14.1	22.6	18.6
KB-03A	Y	8	12.6	23.2	17.8
KB-04	Y	8	12.7	22.5	17.9
KB-05	Y	8	12.8	21.8	17.7

Temperatures measured at the Kennebunk River sites ranged from 12.6° to 24.0°C (Celsius). For the two tidal sites, site KB-01 was always generally quite a bit colder by several degrees than site KB-02, which was the warmest site overall. The four freshwater sites were similar with Site KB-03 being generally a bit warmer. The highest temperatures for all these sites occurred in mid-July. For Site KB-03, temperatures during July-August ranged from 19.0°C to 22.6 °C, Site KB-03A ranged from 17.9°C to 23.2 °C, Site KB-04 ranged from 18.3°C to 22.5, and Site KB-05 ranged from 17.8°C to 21.8 °C. Overall, temperatures were somewhat high during the summer months, particularly in July. It was a wet summer with good flows, but warm temperature which influenced water temperatures through the summer.

Specific Conductance

Specific conductance was measured 8 times at each of the four freshwater sampling sites (Figure 5-5-6 and 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.

Figure 5-5-6: Graph of specific conductance**Table 5-5-5:** A summary of minimum, maximum, and specific conductance ($\mu\text{S}/\text{cm}$) values at Mousam and Kennebunk Rivers Alliance monitoring sites on the Kennebunk River and tributary.

Site	Approved Site	# of Samples	Minimum Value	Maximum Value	Average Value
KB-01	Y				NA-Tidal
KB-02	Y				NA-Tidal
KB-03	Y	8	70	480	169
KB-03A	Y	8	30	120	93
KB-04	Y	8	50	100	80
KB-05	Y	8	40	90	71

Specific conductance at the main stem sites KB-04 and KB-05 as well as the tributary site-KB-03A were very similar. Values for these three sites ranged from 30-120 $\mu\text{S}/\text{cm}$ and are overall low to moderate. At Site KB-03, specific conductance was overall higher than at the other three freshwater sites. One value was high (480 $\mu\text{S}/\text{cm}$) and the rest of the values were moderate to moderately high ranging from 40-190 $\mu\text{S}/\text{cm}$.

Bacteria

Enterococcus bacteria were sampled 8 times at sites KB-01 and KB-02 (Figure 5-5-8 and Table 5-5-6). *Escherichia coli* bacteria were measured 8 times at sampling sites KB-03, KB-04, KB-05 and KB-03A (Figure 5-5-7 and Table 5-5-6). Monitoring occurred from June through September. Most of the samples were taken during baseflow conditions and one significant stormflow (over 1.5" rain previous day) was sampled. 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 Sept 30th, *E. 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 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 average because it is more appropriate to use this calculation for something like bacteria where there may be one or more very high or low values that can skew the mean.

Figure 5-5-7: Graph of *E. coli* (MPN/ml)

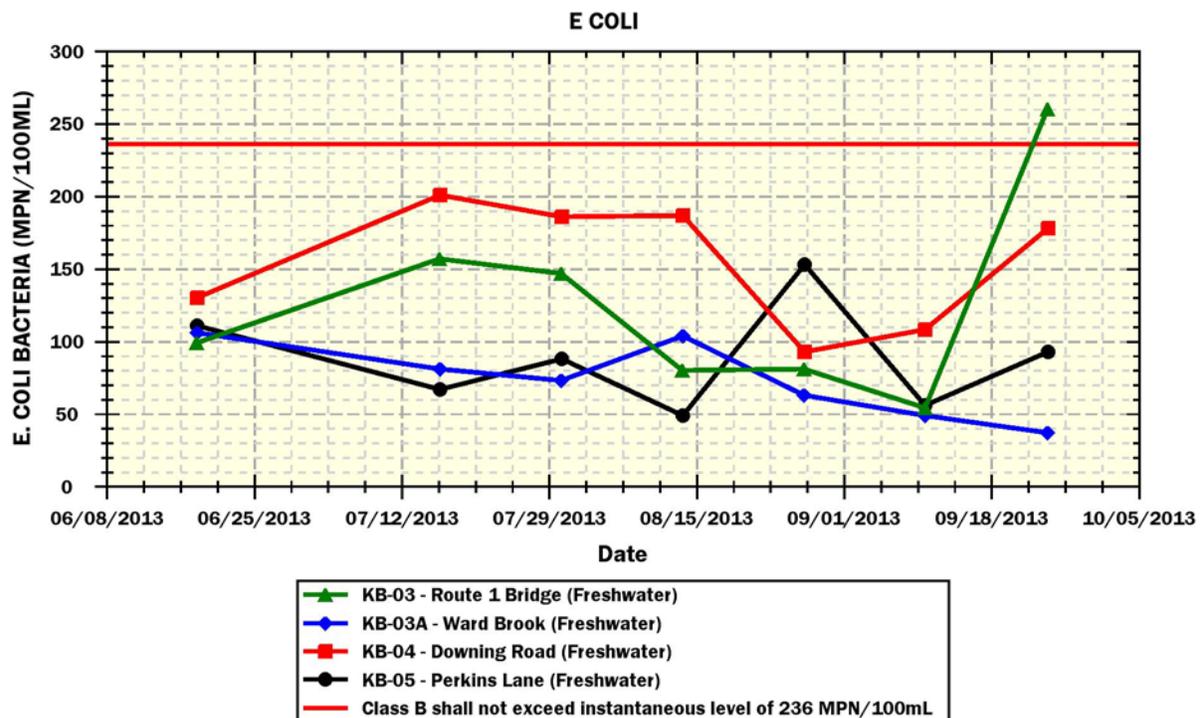


Figure 5-5-8: Graph of Enterococcus (MPN/ml)

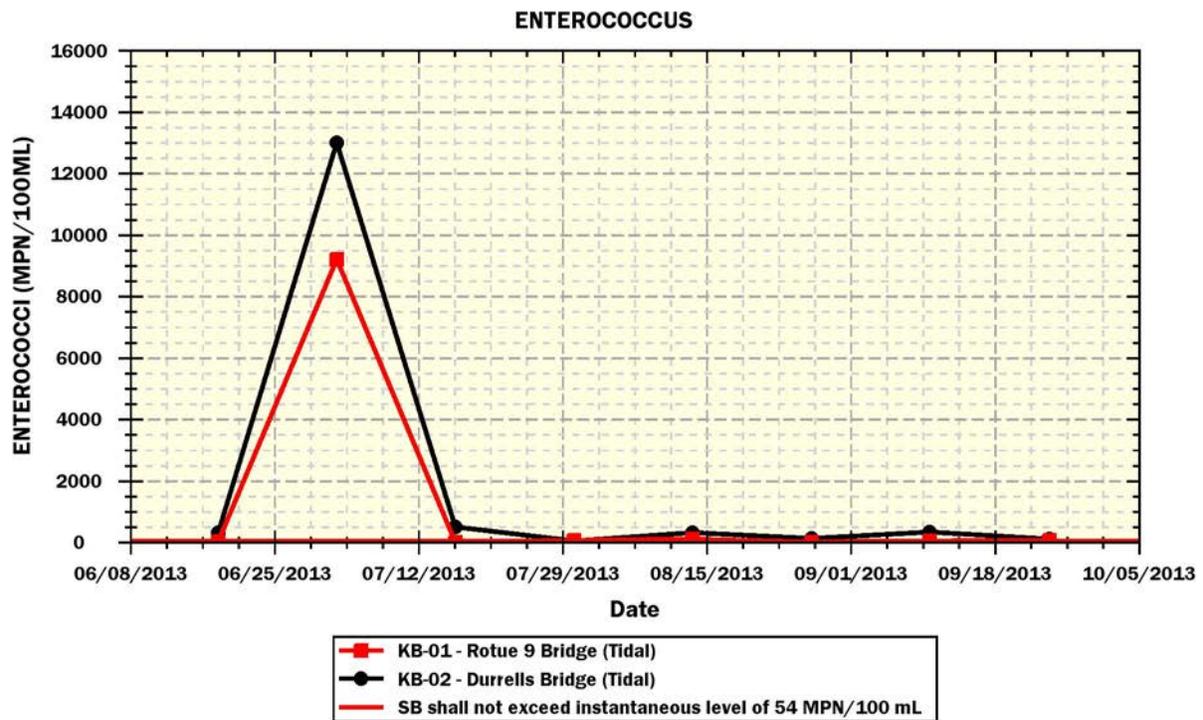


Table 5-5-6: A summary of minimum, maximum, and geometric means for bacteria (MPN/100 mL) values at Mousam and Kennebunk Rivers Alliance monitoring sites on the Kennebunk River and tributary.

Site	Bacteria Type	# of Samples	Minimum Value	Maximum Value	Geometric Mean
KB-01	Enterococcus	8	10	9208	68
KB-02	Enterococcus	8	41	12997	323
KB-03	<i>E. coli</i>	8	54	>2420	163
KB-03A	<i>E. coli</i>	8	37	>2420	108
KB-04	<i>E. coli</i>	8	93	>2420	211
KB-05	<i>E. coli</i>	8	49	>2420	126

Site KB-01 exceeded the geometric mean criterion of 8 MPN/100ml and the instantaneous criterion of 54 MPN/100ml on 4 out of 8 sampling events. Site KB-02 values were always higher than Site KB-01. It exceeded the geometric mean criterion and the instantaneous criterion on 7 out of 8 sampling events. The highest value for both sites occurred on 7/2/3013 after a significant storm event.

Site KB-03 exceeded the geometric mean criterion of 64 MPN/100 ml, and exceeded the instantaneous criterion of 236 MPN/100 ml two times. Site KB-03A, Site KB-04 and Site KB-05 exceeded the

geometric mean criterion and the instantaneous criterion on 1 out of 8 sampling events. The exceedance occurred on 7/2/2013 following a significant storm event.

Most of the bacteria samples were taken during baseflow conditions, but also included one significant storm event. Bacteria sampling over the season should include a mix of sampling during both dry and runoff conditions. The fact that all sites exceeded the geometric mean criterion (with or without the one storm event values included in the calculation) suggests that there may be sources that are not runoff related. This would include wildlife and/or human sources. However, overall bacteria was worse in 2013 which was an overall wetter summer and fall.

Discussion and Recommendations

There are numerous sources of pollution and other stresses to the Kennebunk River 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.
- 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 large 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:

- The monitors should continue to include early morning measurements for dissolved oxygen. It is important to get some values early in the morning (before 8:00 am), particularly during the warmer summer months. 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.
- The VRMP, Healthy Beaches Program staff, DEP monitoring staff, Wells NERR staff and volunteers should continue to work on bacteria monitoring. Efforts should continue on tracking down potential sources. Healthy Beaches should perhaps continue with bacteria sampling at the sites below head of tide to provide some continuity there.
- Continue monitoring at all stations to develop a 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)
Kennebunk River, Mousam & Kennebunk Rivers Alliance - Approved Sites:																
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	6/18/2013	9:45 AM	N			17.5	86.9	8.3	70					130	
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	7/2/2013	9:30 AM	N			19.6	94.1	8.6	50					>2420	
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	7/16/2013	9:35 AM	N			22.5	104	8.8	70					201	
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	7/30/2013	10:20 AM	N			19.7	85.5	7.9	86					186	
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	8/13/2013	9:25 AM	N			18.3	84.9	8	90					187	
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	8/27/2013	10:05 AM	N			19	85.6	7.9	100					93	
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	8/27/2013	10:05 AM	D			19	85.3	7.9	110					104	
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	9/10/2013	8:30 AM	N			14	82.5	8.6	100					108	
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	9/24/2013	11:45 AM	N			12.7	104.1	11	70					178	
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	6/18/2013	7:35 AM	N			13.4	100	10.4		30					20
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	7/2/2013	7:50 AM	N			19.1	98.3	9.1		3					9208
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	7/16/2013	7:25 AM	N												10
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	7/16/2013	7:45 AM	N			19.7	127	11.6		26					
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	7/30/2013	8:20 AM	N			18.4	96.3	9.01		28					73
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	8/13/2013	7:45 AM	N			17.9	92.7	8.9		27					109
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	8/13/2013	7:45 AM	D			17.2	92.1	8.9							156
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	8/27/2013	8:05 AM	N			16.8	98.5	9.5		32					
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	8/27/2013	8:10 AM	N												10
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	9/10/2013	7:00 AM	N			15.7	88.5	8.8							41
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	9/24/2013	9:55 AM	N			13.8	97.4	10.1							75
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	9/24/2013	9:55 AM	L												74
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	6/18/2013	10:05 AM	N			17.7	96.6	9.26	60					111	
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	7/2/2013	9:45 AM	N			19.1	105	9.8	40					>2420	
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	7/16/2013	9:55 AM	N			21.8	118	10.3	70					67	
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	7/30/2013	10:35 AM	N			19	96.3	8.95	70					88	
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	8/13/2013	9:40 AM	N			17.8	94.6	9	80					49	
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	8/27/2013	10:25 AM	N			19	94.5	8.6	90					153	
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	8/27/2013	10:25 AM	D						110						
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	9/10/2013	8:50 AM	N			14.2	91	9.4	90					56	
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	9/24/2013	12:05 PM	N			12.8	113.4	11.96	70					93	
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	6/18/2013	8:20 AM	N			18.9	88.7	8.26		2					305
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/2/2013	8:15 AM	N			19.1	100.5	9.3							12997
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/16/2013	8:05 AM	N			24	105.1	8.8		2					504

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)
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/16/2013	8:05 AM	L												393
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/30/2013	9:00 AM	N			20.9	87.8	7.7			2				41
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/30/2013	9:00 AM	L												52
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	8/13/2013	8:10 AM	N			20.2	83.5	7.3			2				323
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	8/13/2013	8:10 AM	L												345
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	8/27/2013	8:35 AM	N			20.8	87.1	7.8			11				132
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	8/27/2013	8:35 AM	L												108
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	9/10/2013	7:20 AM	N			16.2	80.5	7.9							344
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	9/10/2013	7:20 AM	L												226
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	9/24/2013	10:35 AM	N			12.9	103.6	11							98
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	6/18/2013	9:00 AM	N			18.3	99.3	9.31	140					99	
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	7/2/2013	8:55 AM	N			19.1	90.1	8.4	70					>2420	
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	7/16/2013	8:45 AM	N			22.6	120	10.3	90					157	
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	7/30/2013	9:35 AM	N			20.4	98	8.8	140					147	
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	8/13/2013	8:50 AM	N			19	99.8	9.25	140					80	
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	8/27/2013	9:20 AM	N			20.5	104	9.4	190					81	
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	9/10/2013	7:45 AM	N			15.1	92.8	9.34	480					54	
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	9/24/2013	11:00 AM	N			14.1	114.8	11.8	100					260	
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	9/24/2013	11:00 AM	D			14.1	114.3	11.7	100						
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	9/24/2013	11:05 AM	D											228	
KB-03A	WARD BROOK-SKEWD04-VRMP	6/18/2013	9:20 AM	N			18	91.4	8.7	100					106	
KB-03A	WARD BROOK-SKEWD04-VRMP	7/2/2013	9:05 AM	N			19.1	85.7	7.9	30					>2420	
KB-03A	WARD BROOK-SKEWD04-VRMP	7/2/2013	9:05 AM	D			19	85.5	7.9	30					>2420	
KB-03A	WARD BROOK-SKEWD04-VRMP	7/16/2013	9:05 AM	N			23.2	107.5	9.4	100					81	
KB-03A	WARD BROOK-SKEWD04-VRMP	7/16/2013	9:05 AM	D			22.3	107.2	9.2	100					85	
KB-03A	WARD BROOK-SKEWD04-VRMP	7/30/2013	9:50 AM	N			19.6	92	8.5	110					73	
KB-03A	WARD BROOK-SKEWD04-VRMP	8/13/2013	9:05 AM	N			17.9	91.7	8.7	100					104	
KB-03A	WARD BROOK-SKEWD04-VRMP	8/27/2013	9:20 AM	N											63	
KB-03A	WARD BROOK-SKEWD04-VRMP	8/27/2013	9:20 AM	L											60	
KB-03A	WARD BROOK-SKEWD04-VRMP	8/27/2013	9:40 AM	N			18.7	93.4	8.7	120						
KB-03A	WARD BROOK-SKEWD04-VRMP	9/10/2013	8:05 AM	N			13.5	87	9.1	100					49	
KB-03A	WARD BROOK-SKEWD04-VRMP	9/10/2013	8:05 AM	L											57	
KB-03A	WARD BROOK-SKEWD04-VRMP	9/24/2013	11:20 AM	N			12.6	109.5	11.6	80					37	
KB-03A	WARD BROOK-SKEWD04-VRMP	9/24/2013	11:20 AM	L											25	

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
Kennebunk River, Mousam & Kennebunk Rivers Alliance - Approved Sites:															
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	6/18/2013	9:45 AM	N	BASE FLOW	MED	18.9	CULVERT	LIGHT RAIN, PARTLY CLOUDY	CALM	CLEAR, CLOUDY, SHOWERS	RUN	HIGH EBB	MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	7/2/2013	9:30 AM	N	STORMF LOW	HIGH	20.2	CULVERT	FOGGY, MOSTLY CLOUDY	CALM	CLOUDY, HEAVY RAIN	RUN		MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	7/16/2013	9:35 AM	N	BASE FLOW	MED	24	CULVERT	CLEAR	CALM	CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	7/30/2013	10:20 AM	N	BASE FLOW	MED	18	CULVERT	PARTLY CLOUDY		FOGGY, MOSTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	8/13/2013	9:25 AM	N	BASE FLOW	MED	31.11	CULVERT	PARTLY CLOUDY	CALM	CLEAR, MOSTLY CLOUDY, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	8/27/2013	10:05 AM	N	BASE FLOW	LOW	22	CULVERT		CALM	MOSTLY CLOUDY, PARTLY CLOUDY, SHOWERS	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	8/27/2013	10:05 AM	D				CULVERT							NON-WADEABLE/MID-DEPTH
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	9/10/2013	8:30 AM	N	BASE FLOW	MED	15.56	CULVERT	MOSTLY CLOUDY, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	9/24/2013	11:45 AM	N	BASE FLOW	MED		CULVERT	CLEAR, PARTLY CLOUDY	BREEZE	CLEAR, PARTLY CLOUDY	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	6/18/2013	7:35 AM	N	BASE FLOW	HIGH	18.9	BRIDGE	LIGHT RAIN, PARTLY CLOUDY	CALM	CLEAR, CLOUDY, SHOWERS	RUN	HIGH EBB	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	7/2/2013	7:50 AM	N	STORMF LOW	HIGH	20.2	BRIDGE	FOGGY, MOSTLY CLOUDY	CALM	HEAVY RAIN, MOSTLY CLOUDY	RIFFLE	HIGH	MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	7/16/2013	7:25 AM	N											
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	7/16/2013	7:45 AM	N	BASE FLOW	MED	24	BRIDGE	CLEAR	CALM	CLEAR, PARTLY CLOUDY	RIFFLE	HIGH EBB	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	7/30/2013	8:20 AM	N	BASE FLOW	MED	18	BRIDGE	PARTLY CLOUDY		FOGGY, MOSTLY CLOUDY	RUN	HIGH EBB	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE

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
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	8/13/2013	7:45 AM	N	BASE FLOW	MED	31.11	BRIDGE	PARTLY CLOUDY	CALM	CLEAR, MOSTLY CLOUDY, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	8/13/2013	7:45 AM	D				BRIDGE							NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	8/27/2013	8:05 AM	N	BASE FLOW	MED	22	BRIDGE		CALM	MOSTLY CLOUDY, PARTLY CLOUDY, SHOWERS	RUN	LOW EBB	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	8/27/2013	8:10 AM	N											
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	9/10/2013	7:00 AM	N	BASE FLOW	LOW	15.56	BRIDGE	MOSTLY CLOUDY, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	RUN	LOW EBB	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	9/24/2013	9:55 AM	N	BASE FLOW	LOW		BRIDGE	CLEAR, PARTLY CLOUDY	BREEZE	CLEAR, PARTLY CLOUDY	RIFFLE	LOW	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	9/24/2013	9:55 AM	L											
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	6/18/2013	10:05 AM	N	BASE FLOW	HIGH	18.9	WADING	LIGHT RAIN, PARTLY CLOUDY	CALM	CLEAR, CLOUDY, SHOWERS	RUN	HIGH EBB	MEDIUM STAINED	WADEABLE/1.5 FT BELOW SURFACE
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	7/2/2013	9:45 AM	N	STORMF LOW	HIGH	20.2	WADING	FOGGY, MOSTLY CLOUDY	CALM	CLOUDY, HEAVY RAIN	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	7/16/2013	9:55 AM	N	BASE FLOW	MED	24	BANK	CLEAR		CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	WADEABLE/1.5 FT BELOW SURFACE SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW" - SHOULD BE BY WADING OR WITH EXTENSION POLE.
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	7/30/2013	10:35 AM	N	BASE FLOW	MED	18	WADING	PARTLY CLOUDY	CALM	FOGGY, MOSTLY CLOUDY	RIFFLE		CLEAR	WADEABLE/1.5 FT BELOW SURFACE
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	8/13/2013	9:40 AM	N	BASE FLOW	HIGH	31.11	BANK	PARTLY CLOUDY	CALM	CLEAR, MOSTLY CLOUDY, PARTLY CLOUDY	RIFFLE		CLEAR	WADEABLE/1.5 FT BELOW SURFACE SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW" - SHOULD BE BY WADING OR WITH EXTENSION POLE.
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	8/27/2013	10:25 AM	N	BASE FLOW	LOW	22	WADING		CALM	MOSTLY CLOUDY, PARTLY CLOUDY, SHOWERS	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	8/27/2013	10:25 AM	D				WADING							WADEABLE/MID-DEPTH
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	9/10/2013	8:50 AM	N	BASE FLOW	HIGH	15.56	WADING	MOSTLY CLOUDY, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	WADEABLE/1.5 FT BELOW SURFACE
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	9/24/2013	12:05 PM	N	BASE FLOW	HIGH		WADING	CLEAR, PARTLY CLOUDY	BREEZE	CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	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
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	6/18/2013	8:20 AM	N	BASE FLOW	HIGH	18.9	BRIDGE	LIGHT RAIN, PARTLY CLOUDY	CALM	CLEAR, CLOUDY, SHOWERS	RUN	HIGH EBB	MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/2/2013	8:15 AM	N	STORMF LOW	HIGH	20.2	BRIDGE	FOGGY, MOSTLY CLOUDY	CALM	CLOUDY, HEAVY RAIN	RIFFLE	HIGH EBB	MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/16/2013	8:05 AM	N	BASE FLOW	MED	24	BRIDGE	CLEAR	CALM	CLEAR, PARTLY CLOUDY	RIFFLE	HIGH EBB	MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/16/2013	8:05 AM	L											
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/30/2013	9:00 AM	N	BASE FLOW	MED	18	BRIDGE	PARTLY CLOUDY	CALM	FOGGY, MOSTLY CLOUDY	RIFFLE	HIGH EBB	MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/30/2013	9:00 AM	L											
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	8/13/2013	8:10 AM	N	BASE FLOW	MED	31.11	BRIDGE	PARTLY CLOUDY	CALM	CLEAR, MOSTLY CLOUDY, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	8/13/2013	8:10 AM	L											
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	8/27/2013	8:35 AM	N	BASE FLOW	LOW	22	BRIDGE		CALM	MOSTLY CLOUDY, PARTLY CLOUDY, SHOWERS	RUN	LOW EBB	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	8/27/2013	8:35 AM	L											
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	9/10/2013	7:20 AM	N	BASE FLOW	HIGH	15.56	BRIDGE	MOSTLY CLOUDY, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	RIFFLE	LOW EBB	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	9/10/2013	7:20 AM	L											
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	9/24/2013	10:35 AM	N	BASE FLOW	LOW		BRIDGE	CLEAR, PARTLY CLOUDY	BREEZE	CLEAR, PARTLY CLOUDY	RIFFLE	LOW	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	6/18/2013	9:00 AM	N	BASE FLOW	HIGH	18.9	WADING	LIGHT RAIN, PARTLY CLOUDY	CALM	CLEAR, CLOUDY, SHOWERS	CASCA DE	HIGH EBB	MEDIUM STAINED	WADEABLE/1.5 FT BELOW SURFACE
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	7/2/2013	8:55 AM	N	STORMF LOW	HIGH	20.2	WADING	FOGGY, MOSTLY CLOUDY	CALM	CLOUDY, HEAVY RAIN	CASCA DE		MEDIUM STAINED	WADEABLE/MID-DEPTH
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	7/16/2013	8:45 AM	N	BASE FLOW	MED	24	BANK	CLEAR	CALM	CLEAR, PARTLY CLOUDY	CASCA DE		CLEAR	WADEABLE/1.5 FT BELOW SURFACE SAMPLING LOCATION FROM BANK AND NOT "CENTER OF FLOW" - SHOULD BE BY WADING OR WITH EXTENSION POLE.
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	7/30/2013	9:35 AM	N	BASE FLOW	HIGH	18	WADING	PARTLY CLOUDY	CALM	FOGGY, MOSTLY CLOUDY	RIFFLE	HIGH EBB	CLEAR	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
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	8/13/2013	8:50 AM	N	BASE FLOW	MED	31.11	BANK	PARTLY CLOUDY		CLEAR, MOSTLY CLOUDY, PARTLY CLOUDY	CASCADE		CLEAR	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". PREVIOUSLY SAMPLED BY WADING.
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	8/27/2013	9:20 AM	N	BASE FLOW	MED	22	WADING		CALM	MOSTLY CLOUDY, PARTLY CLOUDY, SHOWERS	CASCADE		CLEAR	WADEABLE/MID-DEPTH
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	9/10/2013	7:45 AM	N	BASE FLOW	HIGH	15.56	WADING	MOSTLY CLOUDY, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	CASCADE		CLEAR	WADEABLE/MID-DEPTH
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	9/24/2013	11:00 AM	N	BASE FLOW	MED		WADING	CLEAR, PARTLY CLOUDY	BREEZE	CLEAR, PARTLY CLOUDY	CASCADE		CLEAR	WADEABLE/MID-DEPTH
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	9/24/2013	11:00 AM	D				WADING							WADEABLE/MID-DEPTH
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	9/24/2013	11:05 AM	D											
KB-03A	WARD BROOK-SKEWD04-VRMP	6/18/2013	9:20 AM	N	BASE FLOW	MED	18.9	BRIDGE	LIGHT RAIN, PARTLY CLOUDY		CLEAR, CLOUDY, SHOWERS	RUN	HIGH EBB	MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
KB-03A	WARD BROOK-SKEWD04-VRMP	7/2/2013	9:05 AM	N	STORMF LOW	HIGH	20.2	BRIDGE	FOGGY, MOSTLY CLOUDY	CALM	CLOUDY, HEAVY RAIN	RUN		MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
KB-03A	WARD BROOK-SKEWD04-VRMP	7/2/2013	9:05 AM	D				BRIDGE							NON-WADEABLE/3 FT BELOW SURFACE
KB-03A	WARD BROOK-SKEWD04-VRMP	7/16/2013	9:05 AM	N	BASE FLOW	MED	24	BRIDGE	CLEAR		CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-03A	WARD BROOK-SKEWD04-VRMP	7/16/2013	9:05 AM	D				BRIDGE							NON-WADEABLE/MID-DEPTH
KB-03A	WARD BROOK-SKEWD04-VRMP	7/30/2013	9:50 AM	N	BASE FLOW	LOW	18	BRIDGE	PARTLY CLOUDY	CALM	FOGGY, MOSTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-03A	WARD BROOK-SKEWD04-VRMP	8/13/2013	9:05 AM	N	BASE FLOW	MED	31.11	BRIDGE	PARTLY CLOUDY		CLEAR, MOSTLY CLOUDY, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-03A	WARD BROOK-SKEWD04-VRMP	8/27/2013	9:20 AM	N											
KB-03A	WARD BROOK-SKEWD04-VRMP	8/27/2013	9:20 AM	L											
KB-03A	WARD BROOK-SKEWD04-VRMP	8/27/2013	9:40 AM	N	BASE FLOW	LOW	22	BRIDGE		CALM	MOSTLY CLOUDY, PARTLY CLOUDY, SHOWERS	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-03A	WARD BROOK-SKEWD04-VRMP	9/10/2013	8:05 AM	N	BASE FLOW	HIGH	15.56	BRIDGE	MOSTLY CLOUDY, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-03A	WARD BROOK-SKEWD04-VRMP	9/10/2013	8:05 AM	L											
KB-03A	WARD BROOK-SKEWD04-VRMP	9/24/2013	11:20 AM	N	BASE FLOW	MED		BRIDGE	CLEAR, PARTLY CLOUDY	BREEZE	CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	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
KB-03A	WARD BROOK-SKEWD04-VRMP	9/24/2013	11:20 AM	L											

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)
Kennebunk River, Mousam & Kennebunk Rivers Alliance - Approved Sites:																
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	6/18/2013	9:45 AM	N			17.5	86.9	8.3	70					130	
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	7/2/2013	9:30 AM	N			19.6	94.1	8.6	50					>2420	
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	7/16/2013	9:35 AM	N			22.5	104	8.8	70					201	
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	7/30/2013	10:20 AM	N			19.7	85.5	7.9	86					186	
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	8/13/2013	9:25 AM	N			18.3	84.9	8	90					187	
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	8/27/2013	10:05 AM	N			19	85.6	7.9	100					93	
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	8/27/2013	10:05 AM	D			19	85.3	7.9	110					104	
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	9/10/2013	8:30 AM	N			14	82.5	8.6	100					108	
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	9/24/2013	11:45 AM	N			12.7	104.1	11	70					178	
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	6/18/2013	7:35 AM	N			13.4	100	10.4		30					20
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	7/2/2013	7:50 AM	N			19.1	98.3	9.1		3					9208
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	7/16/2013	7:25 AM	N												10
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	7/16/2013	7:45 AM	N			19.7	127	11.6		26					
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	7/30/2013	8:20 AM	N			18.4	96.3	9.01		28					73
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	8/13/2013	7:45 AM	N			17.9	92.7	8.9		27					109
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	8/13/2013	7:45 AM	D			17.2	92.1	8.9							156
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	8/27/2013	8:05 AM	N			16.8	98.5	9.5		32					
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	8/27/2013	8:10 AM	N												10
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	9/10/2013	7:00 AM	N			15.7	88.5	8.8							41
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	9/24/2013	9:55 AM	N			13.8	97.4	10.1							75
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	9/24/2013	9:55 AM	L												74
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	6/18/2013	10:05 AM	N			17.7	96.6	9.26	60					111	
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	7/2/2013	9:45 AM	N			19.1	105	9.8	40					>2420	
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	7/16/2013	9:55 AM	N			21.8	118	10.3	70					67	
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	7/30/2013	10:35 AM	N			19	96.3	8.95	70					88	
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	8/13/2013	9:40 AM	N			17.8	94.6	9	80					49	
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	8/27/2013	10:25 AM	N			19	94.5	8.6	90					153	
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	8/27/2013	10:25 AM	D						110						
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	9/10/2013	8:50 AM	N			14.2	91	9.4	90					56	
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	9/24/2013	12:05 PM	N			12.8	113.4	11.96	70					93	
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	6/18/2013	8:20 AM	N			18.9	88.7	8.26		2					305
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/2/2013	8:15 AM	N			19.1	100.5	9.3							12997
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/16/2013	8:05 AM	N			24	105.1	8.8		2					504

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)
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/16/2013	8:05 AM	L												393
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/30/2013	9:00 AM	N			20.9	87.8	7.7		2					41
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/30/2013	9:00 AM	L												52
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	8/13/2013	8:10 AM	N			20.2	83.5	7.3		2					323
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	8/13/2013	8:10 AM	L												345
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	8/27/2013	8:35 AM	N			20.8	87.1	7.8		11					132
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	8/27/2013	8:35 AM	L												108
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	9/10/2013	7:20 AM	N			16.2	80.5	7.9							344
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	9/10/2013	7:20 AM	L												226
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	9/24/2013	10:35 AM	N			12.9	103.6	11							98
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	6/18/2013	9:00 AM	N			18.3	99.3	9.31	140					99	
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	7/2/2013	8:55 AM	N			19.1	90.1	8.4	70					>2420	
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	7/16/2013	8:45 AM	N			22.6	120	10.3	90					157	
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	7/30/2013	9:35 AM	N			20.4	98	8.8	140					147	
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	8/13/2013	8:50 AM	N			19	99.8	9.25	140					80	
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	8/27/2013	9:20 AM	N			20.5	104	9.4	190					81	
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	9/10/2013	7:45 AM	N			15.1	92.8	9.34	480					54	
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	9/24/2013	11:00 AM	N			14.1	114.8	11.8	100					260	
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	9/24/2013	11:00 AM	D			14.1	114.3	11.7	100						
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	9/24/2013	11:05 AM	D											228	
KB-03A	WARD BROOK-SKEWD04-VRMP	6/18/2013	9:20 AM	N			18	91.4	8.7	100					106	
KB-03A	WARD BROOK-SKEWD04-VRMP	7/2/2013	9:05 AM	N			19.1	85.7	7.9	30					>2420	
KB-03A	WARD BROOK-SKEWD04-VRMP	7/2/2013	9:05 AM	D			19	85.5	7.9	30					>2420	
KB-03A	WARD BROOK-SKEWD04-VRMP	7/16/2013	9:05 AM	N			23.2	107.5	9.4	100					81	
KB-03A	WARD BROOK-SKEWD04-VRMP	7/16/2013	9:05 AM	D			22.3	107.2	9.2	100					85	
KB-03A	WARD BROOK-SKEWD04-VRMP	7/30/2013	9:50 AM	N			19.6	92	8.5	110					73	
KB-03A	WARD BROOK-SKEWD04-VRMP	8/13/2013	9:05 AM	N			17.9	91.7	8.7	100					104	
KB-03A	WARD BROOK-SKEWD04-VRMP	8/27/2013	9:20 AM	N											63	
KB-03A	WARD BROOK-SKEWD04-VRMP	8/27/2013	9:20 AM	L											60	
KB-03A	WARD BROOK-SKEWD04-VRMP	8/27/2013	9:40 AM	N			18.7	93.4	8.7	120						
KB-03A	WARD BROOK-SKEWD04-VRMP	9/10/2013	8:05 AM	N			13.5	87	9.1	100					49	
KB-03A	WARD BROOK-SKEWD04-VRMP	9/10/2013	8:05 AM	L											57	
KB-03A	WARD BROOK-SKEWD04-VRMP	9/24/2013	11:20 AM	N			12.6	109.5	11.6	80					37	
KB-03A	WARD BROOK-SKEWD04-VRMP	9/24/2013	11:20 AM	L											25	

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
Kennebunk River, Mousam & Kennebunk Rivers Alliance - Approved Sites:															
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	6/18/2013	9:45 AM	N	BASE FLOW	MED	18.9	CULVERT	LIGHT RAIN, PARTLY CLOUDY	CALM	CLEAR, CLOUDY, SHOWERS	RUN	HIGH EBB	MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	7/2/2013	9:30 AM	N	STORM FLOW	HIGH	20.2	CULVERT	FOGGY, MOSTLY CLOUDY	CALM	CLOUDY, HEAVY RAIN	RUN		MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	7/16/2013	9:35 AM	N	BASE FLOW	MED	24	CULVERT	CLEAR	CALM	CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	7/30/2013	10:20 AM	N	BASE FLOW	MED	18	CULVERT	PARTLY CLOUDY		FOGGY, MOSTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	8/13/2013	9:25 AM	N	BASE FLOW	MED	31.1	CULVERT	PARTLY CLOUDY	CALM	CLEAR, MOSTLY CLOUDY, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	8/27/2013	10:05 AM	N	BASE FLOW	LOW	22	CULVERT		CALM	MOSTLY CLOUDY, PARTLY CLOUDY, SHOWERS	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	8/27/2013	10:05 AM	D				CULVERT							NON-WADEABLE/MID-DEPTH
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	9/10/2013	8:30 AM	N	BASE FLOW	MED	15.6	CULVERT	MOSTLY CLOUDY, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-04	KENNEBUNK RIVER - SKE103 - VRMP	9/24/2013	11:45 AM	N	BASE FLOW	MED		CULVERT	CLEAR, PARTLY CLOUDY	BREEZE	CLEAR, PARTLY CLOUDY	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	6/18/2013	7:35 AM	N	BASE FLOW	HIGH	18.9	BRIDGE	LIGHT RAIN, PARTLY CLOUDY	CALM	CLEAR, CLOUDY, SHOWERS	RUN	HIGH EBB	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	7/2/2013	7:50 AM	N	STORM FLOW	HIGH	20.2	BRIDGE	FOGGY, MOSTLY CLOUDY	CALM	HEAVY RAIN, MOSTLY CLOUDY	RIFFLE	HIGH	MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	7/16/2013	7:25 AM	N											
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	7/16/2013	7:45 AM	N	BASE FLOW	MED	24	BRIDGE	CLEAR	CALM	CLEAR, PARTLY CLOUDY	RIFFLE	HIGH EBB	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	7/30/2013	8:20 AM	N	BASE FLOW	MED	18	BRIDGE	PARTLY CLOUDY		FOGGY, MOSTLY CLOUDY	RUN	HIGH EBB	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE

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
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	8/13/2013	7:45 AM	N	BASE FLOW	MED	31.1	BRIDGE	PARTLY CLOUDY	CALM	CLEAR, MOSTLY CLOUDY, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	8/13/2013	7:45 AM	D				BRIDGE							NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	8/27/2013	8:05 AM	N	BASE FLOW	MED	22	BRIDGE		CALM	MOSTLY CLOUDY, PARTLY CLOUDY, SHOWERS	RUN	LOW EBB	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	8/27/2013	8:10 AM	N											
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	9/10/2013	7:00 AM	N	BASE FLOW	LOW	15.6	BRIDGE	MOSTLY CLOUDY, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	RUN	LOW EBB	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	9/24/2013	9:55 AM	N	BASE FLOW	LOW		BRIDGE	CLEAR, PARTLY CLOUDY	BREEZE	CLEAR, PARTLY CLOUDY	RIFFLE	LOW	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-01	KENNEBUNK RIVER - SKE11 - VRMP	9/24/2013	9:55 AM	L											
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	6/18/2013	10:05 AM	N	BASE FLOW	HIGH	18.9	WADING	LIGHT RAIN, PARTLY CLOUDY	CALM	CLEAR, CLOUDY, SHOWERS	RUN	HIGH EBB	MEDIUM STAINED	WADEABLE/1.5 FT BELOW SURFACE
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	7/2/2013	9:45 AM	N	STORM FLOW	HIGH	20.2	WADING	FOGGY, MOSTLY CLOUDY	CALM	CLOUDY, HEAVY RAIN	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	7/16/2013	9:55 AM	N	BASE FLOW	MED	24	BANK	CLEAR		CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	WADEABLE/1.5 FT BELOW SURFACE SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW" - SHOULD BE BY WADING OR WITH EXTENSION POLE.
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	7/30/2013	10:35 AM	N	BASE FLOW	MED	18	WADING	PARTLY CLOUDY	CALM	FOGGY, MOSTLY CLOUDY	RIFFLE		CLEAR	WADEABLE/1.5 FT BELOW SURFACE
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	8/13/2013	9:40 AM	N	BASE FLOW	HIGH	31.1	BANK	PARTLY CLOUDY	CALM	CLEAR, MOSTLY CLOUDY, PARTLY CLOUDY	RIFFLE		CLEAR	WADEABLE/1.5 FT BELOW SURFACE SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW" - SHOULD BE BY WADING OR WITH EXTENSION POLE.
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	8/27/2013	10:25 AM	N	BASE FLOW	LOW	22	WADING		CALM	MOSTLY CLOUDY, PARTLY CLOUDY, SHOWERS	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	8/27/2013	10:25 AM	D				WADING							WADEABLE/MID-DEPTH
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	9/10/2013	8:50 AM	N	BASE FLOW	HIGH	15.6	WADING	MOSTLY CLOUDY, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	WADEABLE/1.5 FT BELOW SURFACE
KB-05	KENNEBUNK RIVER - SKE148 - VRMP	9/24/2013	12:05 PM	N	BASE FLOW	HIGH		WADING	CLEAR, PARTLY CLOUDY	BREEZE	CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	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
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	6/18/2013	8:20 AM	N	BASE FLOW	HIGH	18.9	BRIDGE	LIGHT RAIN, PARTLY CLOUDY	CALM	CLEAR, CLOUDY, SHOWERS	RUN	HIGH EBB	MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/2/2013	8:15 AM	N	STORM FLOW	HIGH	20.2	BRIDGE	FOGGY, MOSTLY CLOUDY	CALM	CLOUDY, HEAVY RAIN	RIFFLE	HIGH EBB	MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/16/2013	8:05 AM	N	BASE FLOW	MED	24	BRIDGE	CLEAR	CALM	CLEAR, PARTLY CLOUDY	RIFFLE	HIGH EBB	MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/16/2013	8:05 AM	L											
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/30/2013	9:00 AM	N	BASE FLOW	MED	18	BRIDGE	PARTLY CLOUDY	CALM	FOGGY, MOSTLY CLOUDY	RIFFLE	HIGH EBB	MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	7/30/2013	9:00 AM	L											
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	8/13/2013	8:10 AM	N	BASE FLOW	MED	31.1	BRIDGE	PARTLY CLOUDY	CALM	CLEAR, MOSTLY CLOUDY, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	8/13/2013	8:10 AM	L											
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	8/27/2013	8:35 AM	N	BASE FLOW	LOW	22	BRIDGE		CALM	MOSTLY CLOUDY, PARTLY CLOUDY, SHOWERS	RUN	LOW EBB	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	8/27/2013	8:35 AM	L											
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	9/10/2013	7:20 AM	N	BASE FLOW	HIGH	15.6	BRIDGE	MOSTLY CLOUDY, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	RIFFLE	LOW EBB	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	9/10/2013	7:20 AM	L											
KB-02	KENNEBUNK RIVER - SKE35 - VRMP	9/24/2013	10:35 AM	N	BASE FLOW	LOW		BRIDGE	CLEAR, PARTLY CLOUDY	BREEZE	CLEAR, PARTLY CLOUDY	RIFFLE	LOW	CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	6/18/2013	9:00 AM	N	BASE FLOW	HIGH	18.9	WADING	LIGHT RAIN, PARTLY CLOUDY	CALM	CLEAR, CLOUDY, SHOWERS	CASCA DE	HIGH EBB	MEDIUM STAINED	WADEABLE/1.5 FT BELOW SURFACE
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	7/2/2013	8:55 AM	N	STORM FLOW	HIGH	20.2	WADING	FOGGY, MOSTLY CLOUDY	CALM	CLOUDY, HEAVY RAIN	CASCA DE		MEDIUM STAINED	WADEABLE/MID-DEPTH
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	7/16/2013	8:45 AM	N	BASE FLOW	MED	24	BANK	CLEAR	CALM	CLEAR, PARTLY CLOUDY	CASCA DE		CLEAR	WADEABLE/1.5 FT BELOW SURFACE SAMPLING LOCATION FROM BANK AND NOT "CENTER OF FLOW"- SHOULD BE BY WADING OR WITH EXTENSION POLE.
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	7/30/2013	9:35 AM	N	BASE FLOW	HIGH	18	WADING	PARTLY CLOUDY	CALM	FOGGY, MOSTLY CLOUDY	RIFFLE	HIGH EBB	CLEAR	WADEABLE/MID-DEPTH
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	8/13/2013	8:50 AM	N	BASE FLOW	MED	31.1	BANK	PARTLY CLOUDY		CLEAR, MOSTLY CLOUDY, PARTLY CLOUDY	CASCA DE		CLEAR	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". PREVIOUSLY SAMPLED BY WADING.

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
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	8/27/2013	9:20 AM	N	BASE FLOW	MED	22	WADING		CALM	MOSTLY CLOUDY, PARTLY CLOUDY, SHOWERS	CASCADE		CLEAR	WADEABLE/MID-DEPTH
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	9/10/2013	7:45 AM	N	BASE FLOW	HIGH	15.6	WADING	MOSTLY CLOUDY, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	CASCADE		CLEAR	WADEABLE/MID-DEPTH
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	9/24/2013	11:00 AM	N	BASE FLOW	MED		WADING	CLEAR, PARTLY CLOUDY	BREEZE	CLEAR, PARTLY CLOUDY	CASCADE		CLEAR	WADEABLE/MID-DEPTH
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	9/24/2013	11:00 AM	D				WADING							WADEABLE/MID-DEPTH
KB-03	KENNEBUNK RIVER - SKE66 - VRMP	9/24/2013	11:05 AM	D											
KB-03A	WARD BROOK-SKEWD04-VRMP	6/18/2013	9:20 AM	N	BASE FLOW	MED	18.9	BRIDGE	LIGHT RAIN, PARTLY CLOUDY		CLEAR, CLOUDY, SHOWERS	RUN	HIGH EBB	MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
KB-03A	WARD BROOK-SKEWD04-VRMP	7/2/2013	9:05 AM	N	STORM FLOW	HIGH	20.2	BRIDGE	FOGGY, MOSTLY CLOUDY	CALM	CLOUDY, HEAVY RAIN	RUN		MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
KB-03A	WARD BROOK-SKEWD04-VRMP	7/2/2013	9:05 AM	D				BRIDGE							NON-WADEABLE/3 FT BELOW SURFACE
KB-03A	WARD BROOK-SKEWD04-VRMP	7/16/2013	9:05 AM	N	BASE FLOW	MED	24	BRIDGE	CLEAR		CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-03A	WARD BROOK-SKEWD04-VRMP	7/16/2013	9:05 AM	D				BRIDGE							NON-WADEABLE/MID-DEPTH
KB-03A	WARD BROOK-SKEWD04-VRMP	7/30/2013	9:50 AM	N	BASE FLOW	LOW	18	BRIDGE	PARTLY CLOUDY	CALM	FOGGY, MOSTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-03A	WARD BROOK-SKEWD04-VRMP	8/13/2013	9:05 AM	N	BASE FLOW	MED	31.1	BRIDGE	PARTLY CLOUDY		CLEAR, MOSTLY CLOUDY, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-03A	WARD BROOK-SKEWD04-VRMP	8/27/2013	9:20 AM	N											
KB-03A	WARD BROOK-SKEWD04-VRMP	8/27/2013	9:20 AM	L											
KB-03A	WARD BROOK-SKEWD04-VRMP	8/27/2013	9:40 AM	N	BASE FLOW	LOW	22	BRIDGE		CALM	MOSTLY CLOUDY, PARTLY CLOUDY, SHOWERS	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-03A	WARD BROOK-SKEWD04-VRMP	9/10/2013	8:05 AM	N	BASE FLOW	HIGH	15.6	BRIDGE	MOSTLY CLOUDY, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-03A	WARD BROOK-SKEWD04-VRMP	9/10/2013	8:05 AM	L											
KB-03A	WARD BROOK-SKEWD04-VRMP	9/24/2013	11:20 AM	N	BASE FLOW	MED		BRIDGE	CLEAR, PARTLY CLOUDY	BREEZE	CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
KB-03A	WARD BROOK-SKEWD04-VRMP	9/24/2013	11:20 AM	L											