

Section 5-7

Presumpscot River & Tributaries (Presumpscot River Watch)

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

Overview

Presumpscot River Watch (PRW), incorporated as a not-for-profit organization in 1989, works to preserve and improve the health of the Presumpscot River and its tributaries. The mission of the PRW is to preserve and improve the health of the Presumpscot River watershed by scientific monitoring of water quality and sharing data to increase awareness of the condition of the river. PRW's commitment is primarily accomplished through a seasonal (summer) volunteer water quality monitoring program that enhances public awareness of river water quality in the Presumpscot River watershed. The data generated from the monitoring program also serve other purposes: (1) verification of State water quality standards; (2) identification of specific problem areas; (3) establishment of baseline water quality monitoring data; and (4) use of water quality monitoring results by other organizations.

The Presumpscot River originates at Sebago Lake Basin and flows approximately 25 miles (40 km) to the Atlantic Ocean (Casco Bay) through Cumberland County, Maine. The Presumpscot River contributes the largest freshwater input into Casco Bay, draining approximately 648 square miles. The Presumpscot watershed below Sebago Lake is slightly more than 200 square miles. Nine dams, seven of which are used to generate hydroelectric power, create impoundment and associated tailwater habitats. The uppermost dam is located at the Sebago Lake outlet, whereas the lowermost dam is located at the SAPPI Mill in Westbrook. Major tributaries to the Presumpscot River include the Pleasant River, Little River, and the Piscataqua River; minor tributaries include Otter Brook, Nason Brook, Black Brook, Colley Wright Brook, Inkhorn Brook, and Mill Brook. Highland Lake and Forest Lake are the primary lakes in the Presumpscot River watershed; Mill Brook and the Piscataqua River, respectively, connect them to the main stem of the Presumpscot River. Windham, Gorham, Westbrook, Cumberland, Falmouth, and Portland represent primary municipalities in the Presumpscot River watershed, and are characterized by multiple land uses. Urban areas include residential and commercial dwellings, commercial businesses, light industry, and water and wastewater treatment plants. Westbrook and Portland contribute combined sewer overflow (CSO) discharge to the Presumpscot River below Saccarappa Falls. The SAPPI paper mill is located in Westbrook. Agricultural practices such as row crop and pasture constitute the agricultural land use component, whereas mixed deciduous and coniferous forest comprise the forest component.

According to Maine's statutory Water Classification System, the Presumpscot River Basin has designations listed below.¹

- Presumpscot River, main stem.
 - From the outlet of Sebago Lake to the confluence with the Pleasant River – Class A. (Note: Dundee Pond is a great pond, classified GPA)
 - From the confluence with the Pleasant River to Saccarappa Falls – Class B.

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

- From the Saccarappa Falls to tidewater – Class C.
- Below head-of-tide – Class SC.
- Presumpscot River tributaries below Sebago Lake – Class B.

The DEP “2012 Integrated Water Quality Monitoring and Assessment Report” lists the Presumpscot River and tributaries in 5 categories. To view the report and appendices, go to this link: <http://www.maine.gov/dep/water/monitoring/305b/index.htm>.

Methods

The volunteers monitor the Presumpscot River annually. There are twenty-five monitoring sites in the watershed. Although PRW’s goal is to monitor all sites each year, they are not always able to do so. In 2013 they sampled 22 sites, all but one are VMRP approved sites. (Table 5-7-1, Figures 5-7-1 through 5-7-4). All stations are above the head-of-tide at Presumpscot Falls.

Monitoring was conducted between 5:13 and 8:30AM, every two weeks from May 18th through August 24th. At each of the sites, the monitors took measurements of dissolved oxygen and temperature using either a YSI 550A or YSI 85 meter. Conductivity was measured with either a YSI 85 meter or EC Testr 11/11+ pen. Grab samples were collected for *E. coli* bacteria and transported to the PRW office for analysis using IDEXX Quanti-Tray 2000 method. Air temperature, weather conditions, and water appearance were recorded.

Table 5-7-1. Presumpscot River Watch sampling sites, ordered from upstream down for the main stem and the same for the tributaries at their confluence with the Presumpscot River (*indicates non-approved sites).

Site ID	Organization Site Code	Sample Location	Class
Presumpscot River - R225 - VRMP	P200	Route 35 Crossing	A
Otter Brook-ROT06-VRMP	OB010	Otter Brook	B
Nason Brook-RNS11-VRMP	N010	Nason Brook	B
Baker Brook-RPLBK17-VRMP	BB010	Baker Brook	B
Ditch Brook-RPL00-VRMP	DB010	Ditch Brook	B
Pleasant River -RPL47-VRMP	PL040	Route 302	B
Pleasant River- RPL29 - PRW	PL020	Pope Road	B
Pleasant River-RPL06-VRMP	PL010	Lovett Bridge	B
Presumpscot River-R157-PRW *	P135	Park in Gambo	B
Black Brook-RBK05-VRMP	BL010	Black Brook	B
Presumpscot River-R133-VRMP	P110	Presumpscot River	B
Colley Wright Brook-RCW28-VRMP	CW020	Colley Wright Brook	B

Table 5-7-1. (Continued) Presumpscot River Watch sampling sites, ordered from upstream down for the main stem and the same for the tributaries at their confluence with the Presumpscot River (*indicates non-approved sites).

Site ID	Organization Site Code	Sample Location	Class
Colley Wright Brook-RCW10-VRMP	CW010	Colley Wright Brook	B
Douglas Brook-RLTNBDG20-VRMP	DG010	Douglas Brook	B
Little River-L050-VRMP	L050	Little River	B
Tannery Brook - RLTTN06 - VRMP	TA010	Queen Street	B
Mill Brook-RML63-VRMP	M030	Below Highland Lake	B
Mill Brook-RML01-VRMP	M010	Bridge Street	B
Presumpscot River-R47-VRMP	P030	Presumpscot River	C
Presumpscot River-R24-VRMP	P020	Blackstrap Road	C
Piscataqua River-RPS12-VRMP	PI020	Leighton Road	B
E. Branch Piscataqua River-RPSEB05-VRMP	PI010	Falmouth Road	B

2013 Presumpscot River Sampling Sites, Main Stem Presumpscot River Watch

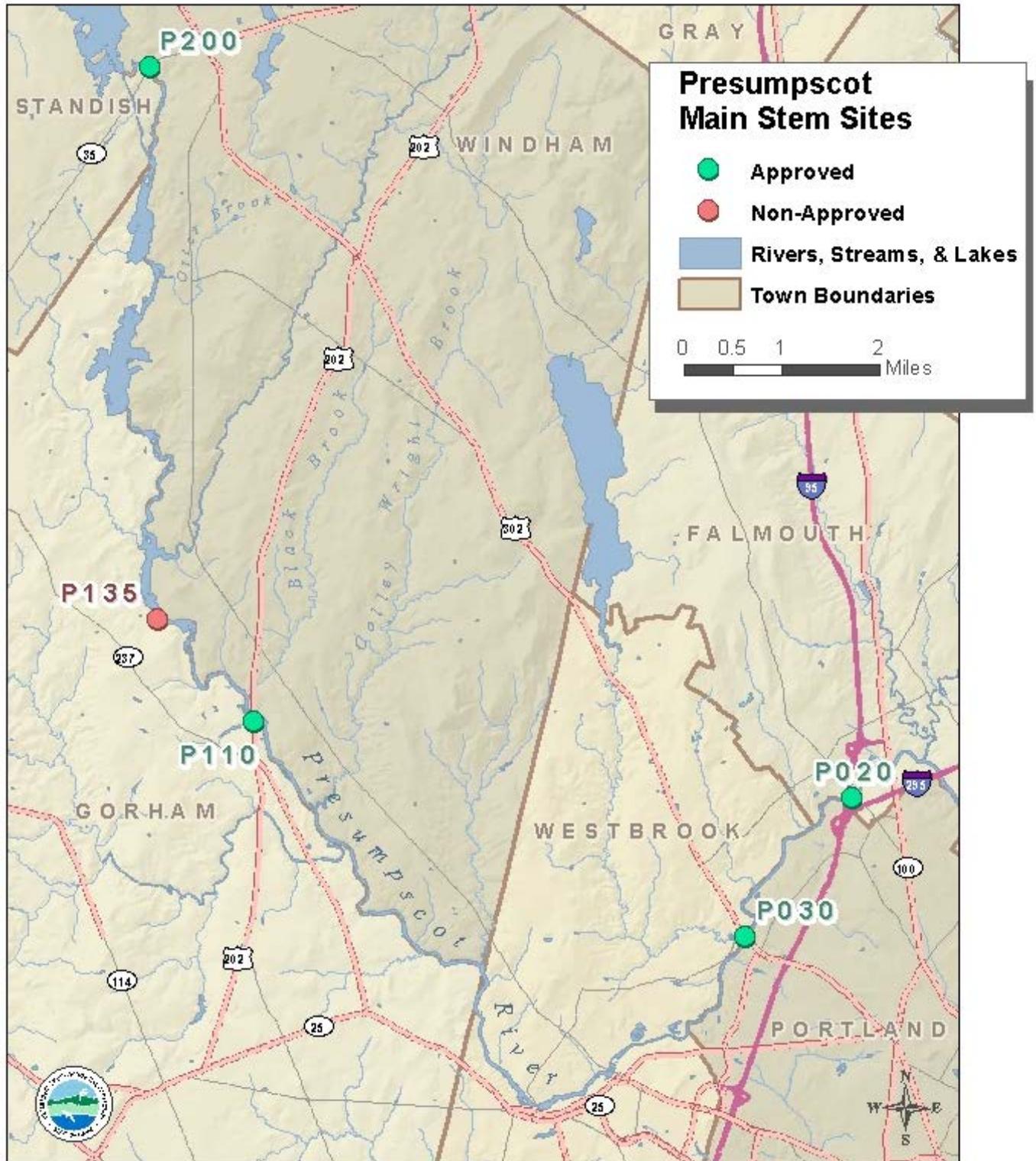


Figure 5-7-1: Map of Presumpscot River Watch main stem sampling sites.

2013 Presumpscot River Sampling Sites, Pleasant River Presumpscot River Watch

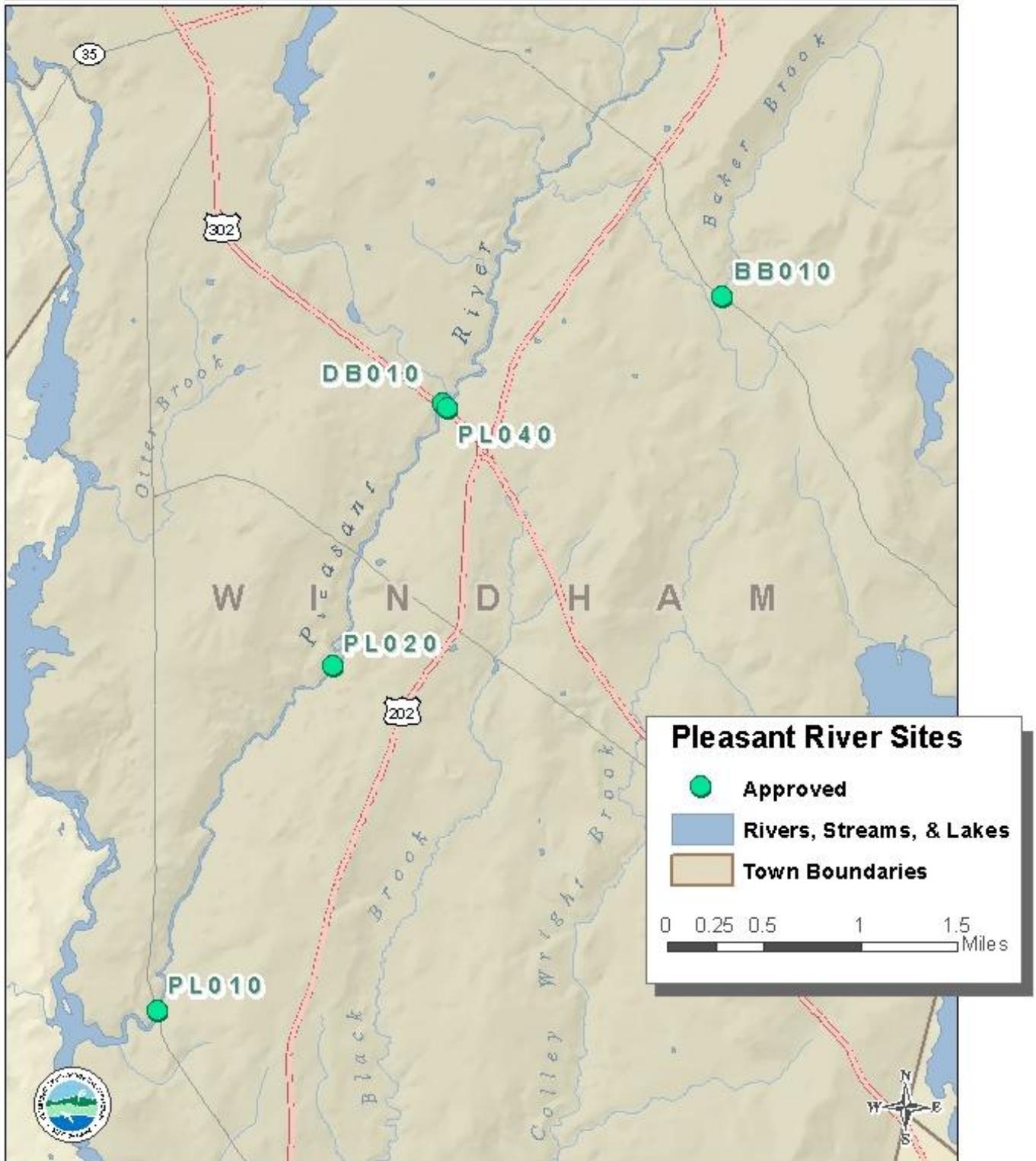


Figure 5-7-2: Map of Presumpscot River Watch sampling sites at Pleasant River and tributaries.

2013 Presumpscot River Sampling Sites, Windham/Gorham Tributaries Presumpscot River Watch

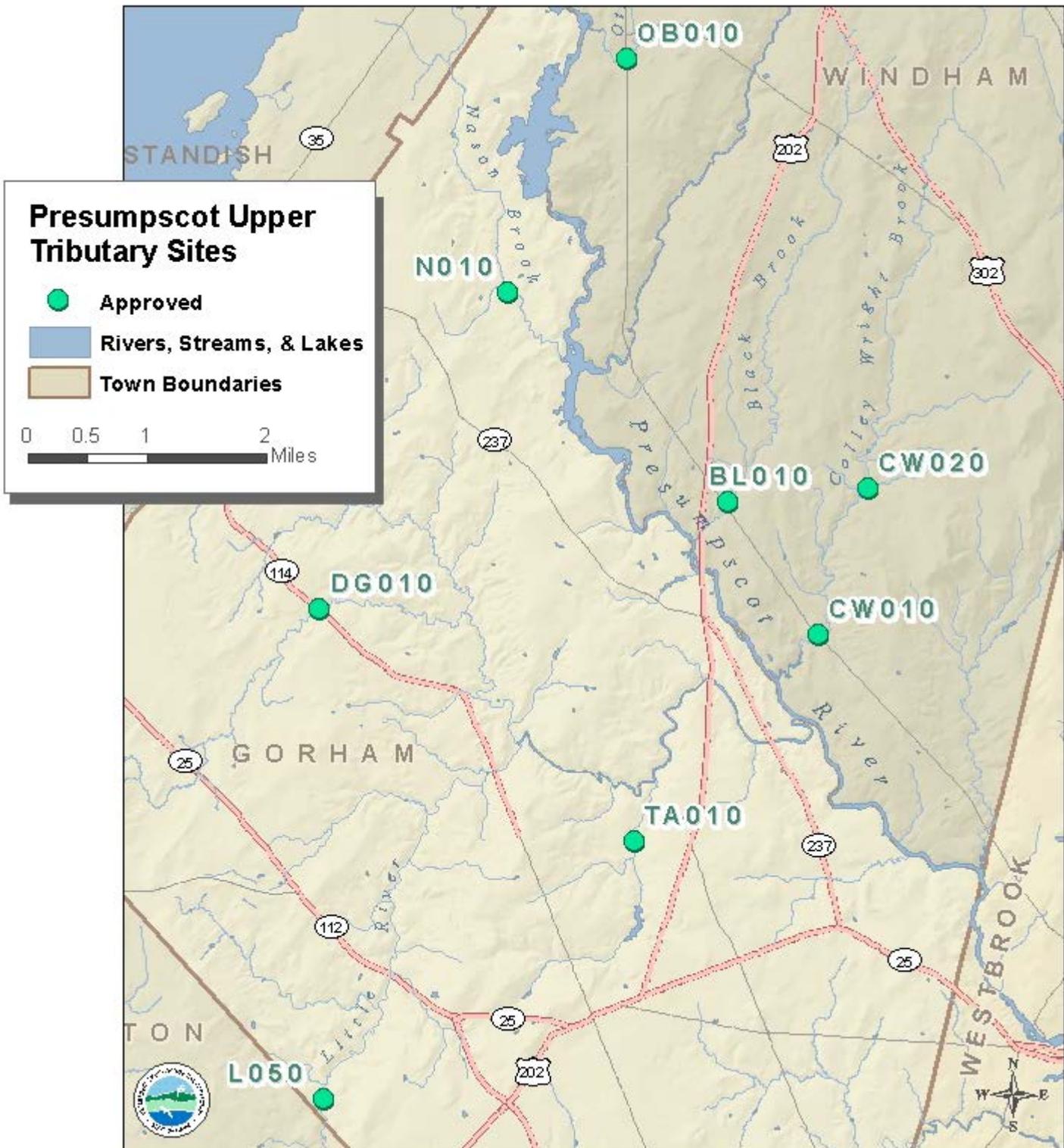


Figure 5-7-3: Map of Presumpscot River Watch sampling sites, Windham/Gorham area tributaries.

2013 Presumpscot River Sampling Sites, Westbrook/Falmouth Tributaries Presumpscot River Watch

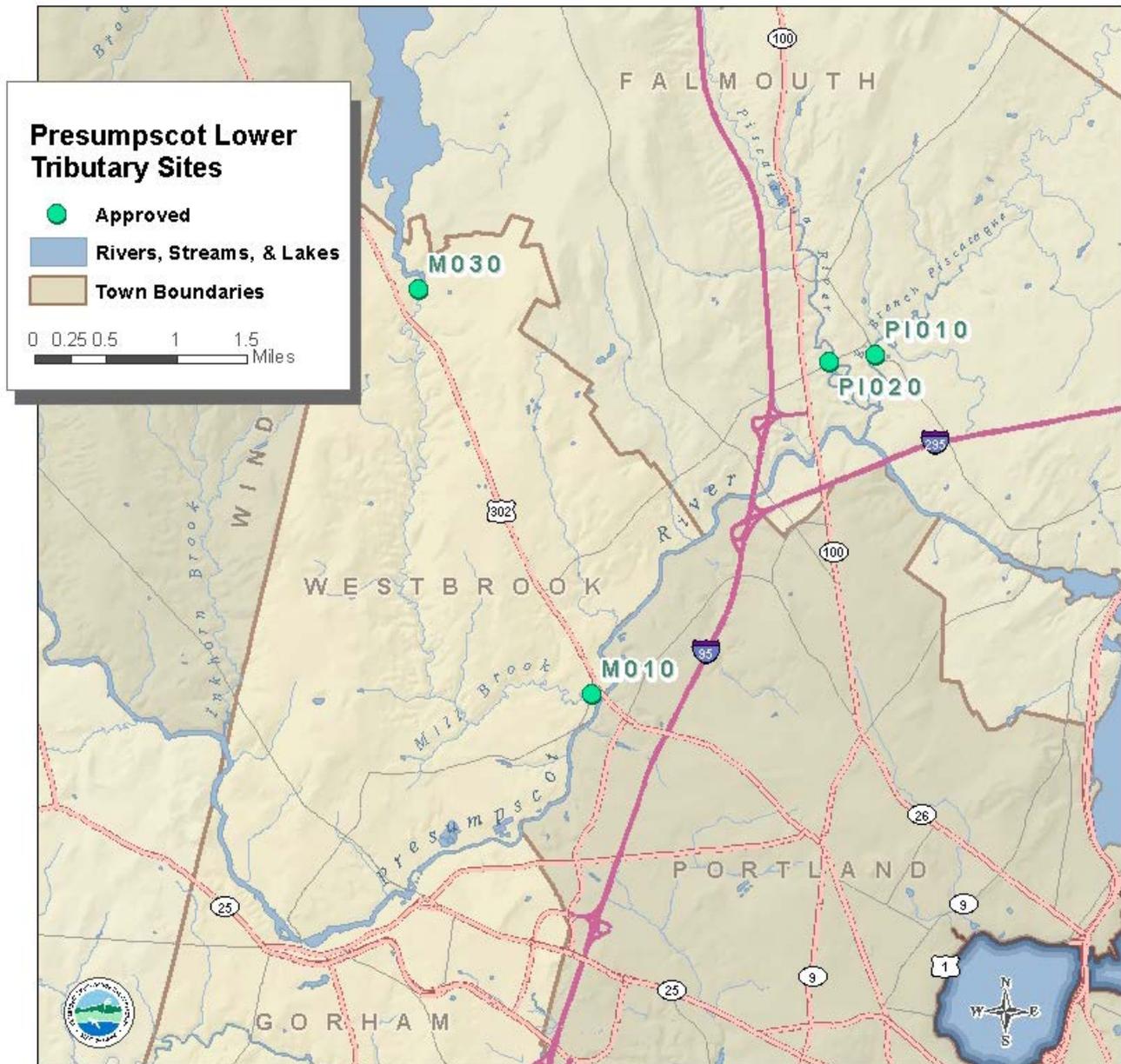


Figure 5-7-4: Map of Presumpscot River Watch sampling sites on the lower Presumpscot tributaries.

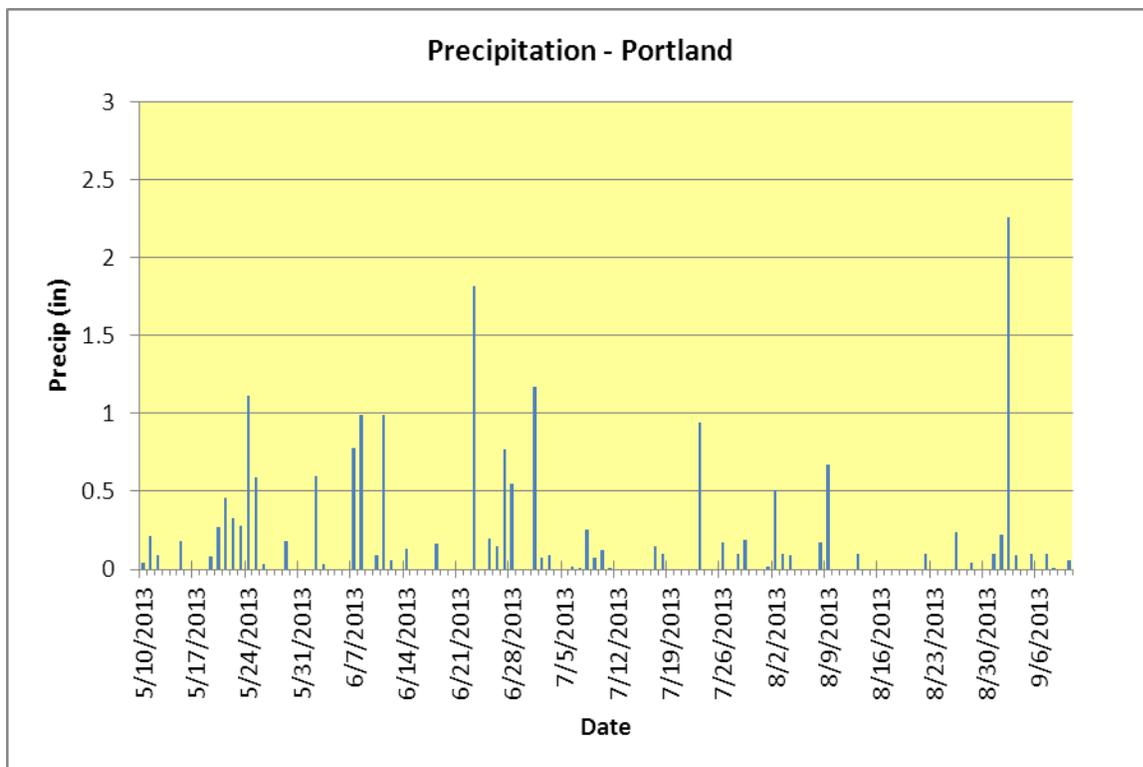
Results

For the purpose of discussion, the sampling stations were divided into Presumpscot River main stem (site code P200 – P020), and the tributaries collectively. Refer to Appendices A-1 and A-2 in discussion of individual site data and trends.

Precipitation

Figure 5-7-5 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 (Portland Jetport (KPWM)) 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.

Figure 5-7-5: Seasonal precipitation measured at the Portland Jetport.



Dissolved Oxygen

Presumpscot Main stem:

Dissolved oxygen (DO) was measured 5-8 times throughout the season at each of the five main stem sampling sites (Table 5-7-2 and 5-7-3). All DO measurements except P030 on June 15th and June 29th were taken before 8:00 AM; the recommended period to measure diurnal low concentrations. Dissolved oxygen percent saturation was measured at all five main stem sites. Class A and B criteria for DO are a minimum of 7.0 mg/l or 75% saturation. Class C criteria for dissolved oxygen are a minimum of 5.0 mg/l or 60 % saturation. To meet water quality criteria, both concentration and saturation criteria must be met.

Sample site P135 is not a VRMP approved site and on 7/27/13 the DO and DOSAT readings were 4.8 mg/L and 50.4% respectively. No other sites expressed a similar drop, therefore it is considered an outlier in this analysis. Dissolved oxygen concentrations in the main stem of the river ranged from 7 to 10.2 mg/l and from 83.4 to 101.4 percent saturation. The Class A sampling sites (P200) and both Class B sampling sites (P135, P110) met Class B criteria. The observed dissolved oxygen levels never dropped below the Class C instantaneous criterion of 5.0 mg/L or 60 % saturation in the lower Presumpscot River (P030 and P020).

Presumpscot Tributaries:

Dissolved oxygen concentration was measured 5-8 times at each of the seventeen sampling sites on eight of the direct Presumpscot tributaries and their feeder streams (Table 5-7-2 and Table 5-7-3). Ninety-nine percent (179 out of 181) of the DO measurements were taken before 8:00 AM, the recommended period to measure diurnal low concentrations. Class B criteria for dissolved oxygen are a minimum of 7.0 mg/l or 75% saturation. To meet water quality criteria, both concentration and saturation standards must be met.

Nine out of seventeen sample sites had DO measurements below the Class B instantaneous criteria of 7.0 mg/L and 75% saturation. Of the 181 readings recorded throughout the season, 161 (or 89%) met criteria.

In reviewing the five year record of monitoring by the Presumpscot River Watch there were eight of the tributary sample sites to the Presumpscot sampled in 2013 that consistently do not meet DO criteria for class B waters. In 2011 none of the sites that were also monitored in 2013 met Class B criteria. This can be attributed to low flows that summer.

May 15th of this year is the first time in the last five years of monitoring, Otter Brook met Class B criteria for DO. In the last four years it had an average seasonal reading of 3.5 mg/L and 42 percent of the readings were less than 3.0 mg/L. These data result in a downward skew of the yearly averages for the tributaries.

Figure 5-7-6: Graph of dissolved oxygen concentrations at sites on the mainstem of the Presumpscot River

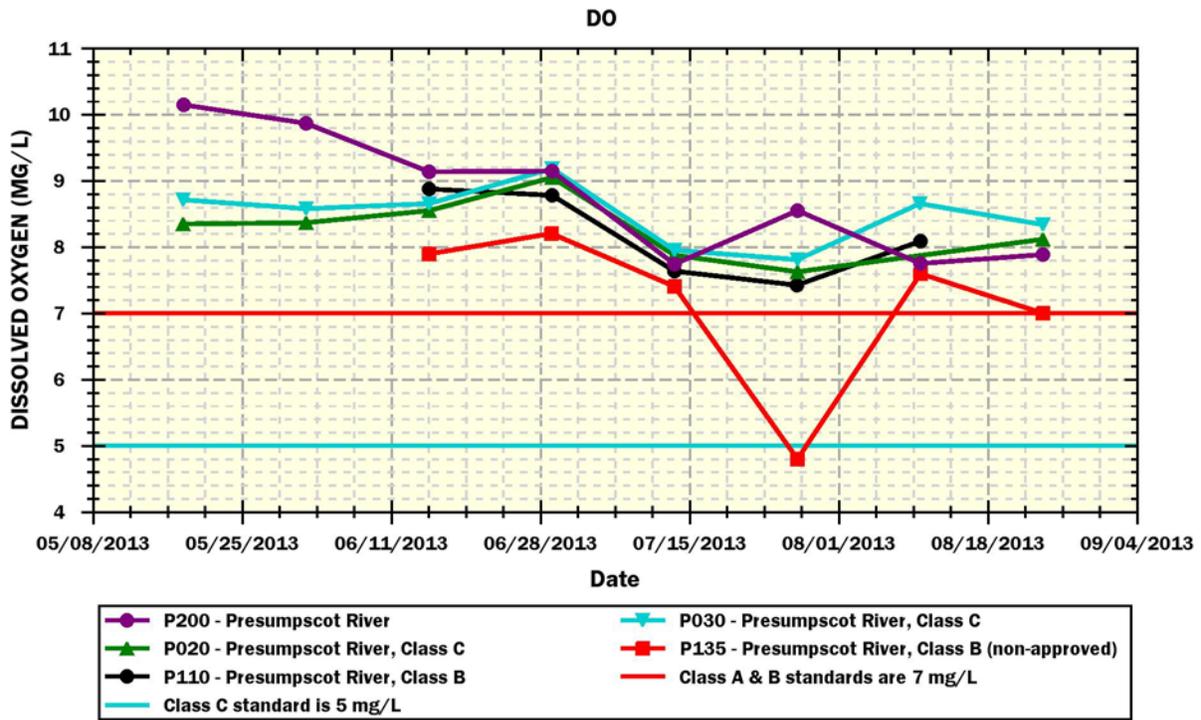


Figure 5-7-7: Graph of dissolved oxygen concentrations at sites on the upper Presumpscot tributaries.

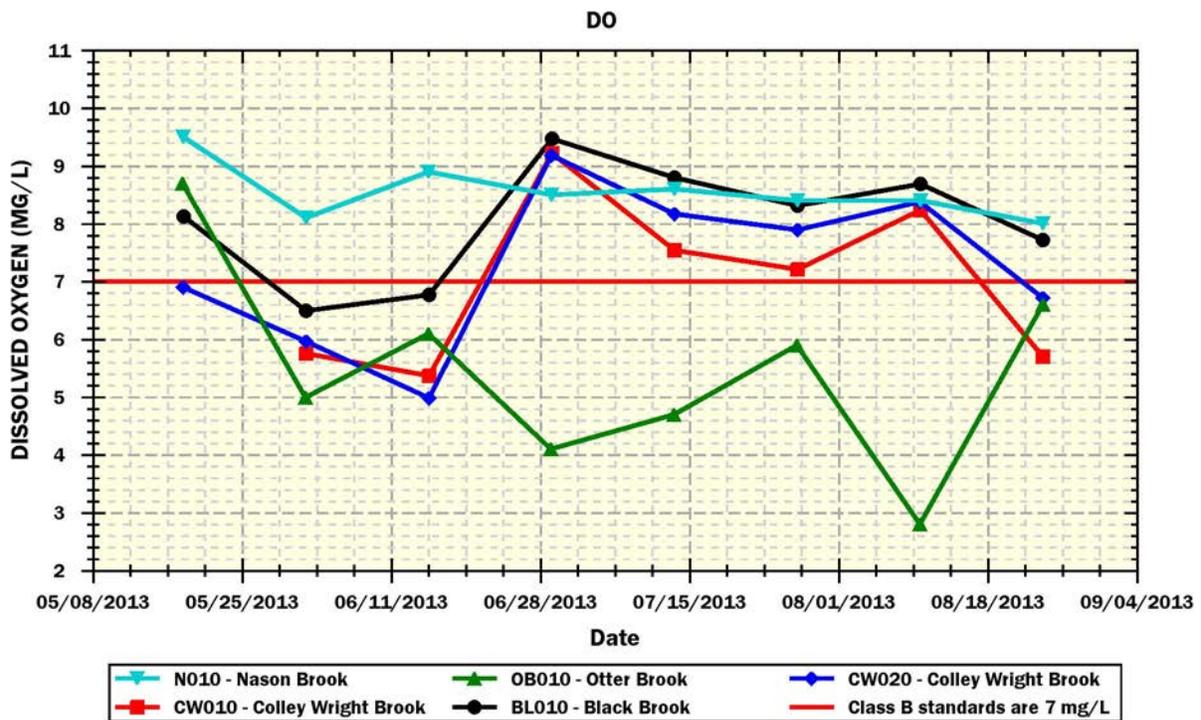


Figure 5-7-8: Graph of dissolved oxygen concentrations at sites on the Pleasant River and tributaries

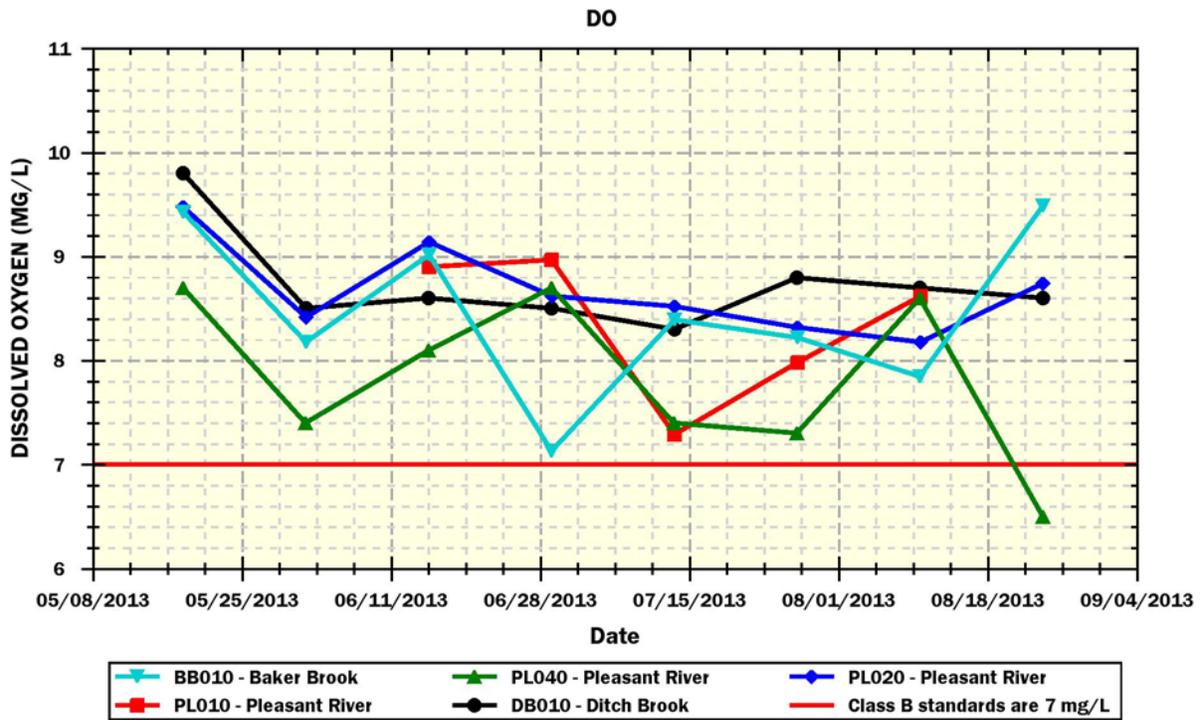


Figure 5-7-9: Graph of dissolved oxygen concentrations at sites in the Little River catchment.

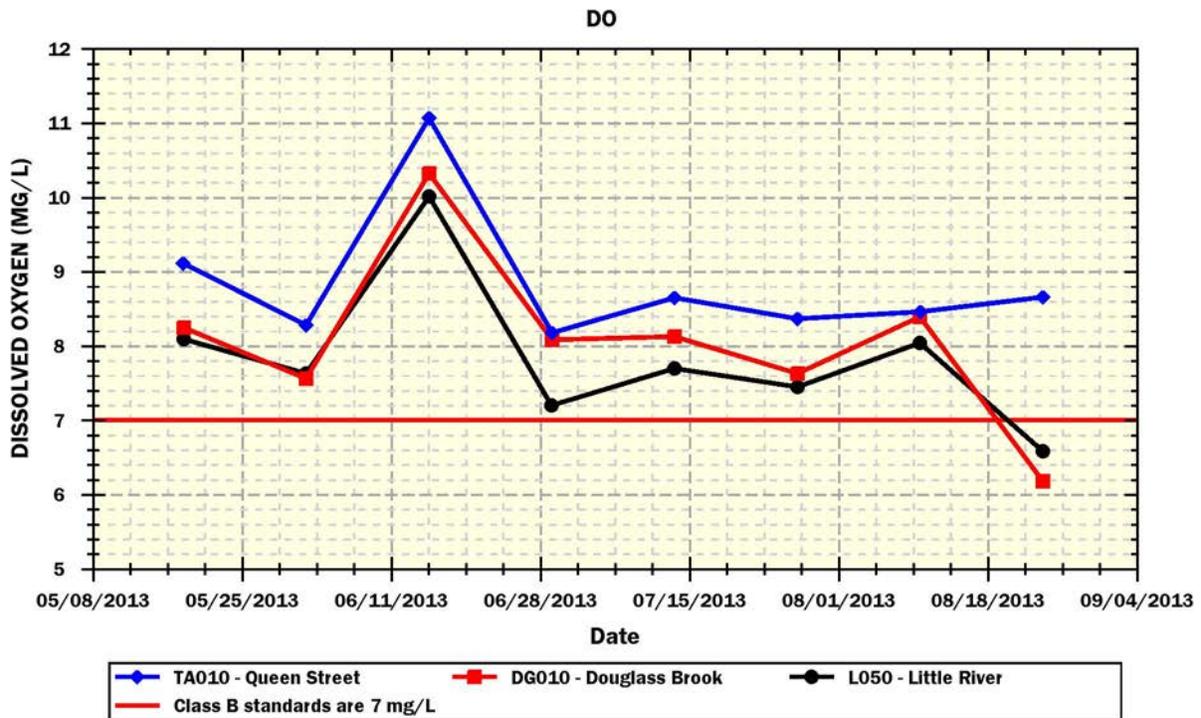


Figure 5-7- 10: Graph of dissolved oxygen concentrations at sites on the lower Presumpscot tributaries.

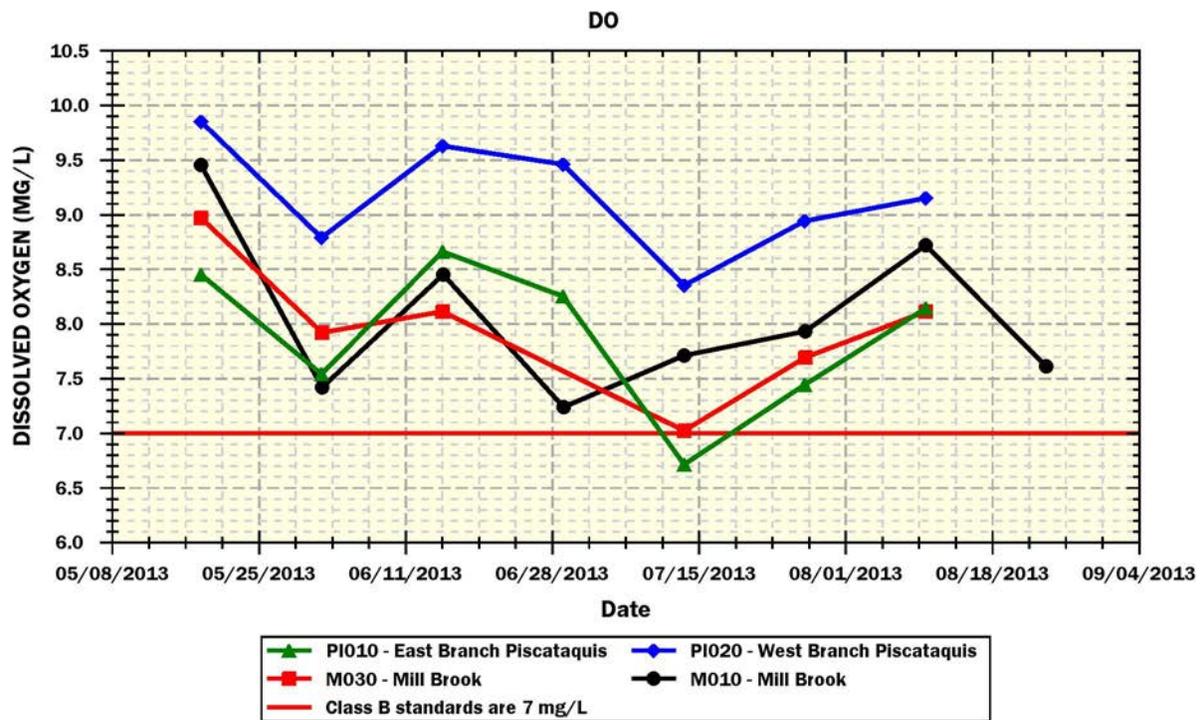


Table 5-7-2: A summary of minimum, maximum, and average dissolved oxygen concentration values (mg/l) at Presumpscot River Watch monitoring sites.

Site	Approved Site	# of Samples	Minimum Value	Maximum Value	Average Value
P200	Y	8	7.74	10.15	8.78
OB010	Y	8	2.8	8.7	5.49
N010	Y	8	8	9.5	8.55
BB010	Y	8	7.13	9.49	8.46
DB010	Y	8	8.3	9.8	8.73
PL040	Y	8	6.5	8.7	7.84
PL020	Y	8	8.18	9.48	8.68
PL010	Y	5	7.29	8.97	8.35
P135	N	6	4.8	8.2	7.15
BL010	Y	8	6.49	9.47	8.05
P110	Y	5	7.42	8.88	8.16
CW020	Y	8	4.98	9.18	7.27

Table 5-7-2 (Continued): A summary of minimum, maximum, and average dissolved oxygen concentration values (mg/l) at Presumpscot River Watch monitoring sites.

Site	Approved Site	# of Samples	Minimum Value	Maximum Value	Average Value
CW010	Y	7	5.37	9.22	7.01
DG010	Y	8	6.18	10.32	8.07
L050	Y	8	6.58	10.01	7.84
TA010	Y	8	8.18	11.07	8.85
M030	Y	6	7.02	8.97	7.97
M010	Y	8	7.24	9.45	8.07
P030	Y	8	7.81	9.18	8.49
P020	Y	7	7.63	9.05	8.28
PI020	Y	7	8.35	9.85	9.17
PI010	Y	7	6.71	8.66	7.88

Figure 5-7-11: Graph of dissolved oxygen saturation at sites on the mainstem of the Presumpscot River

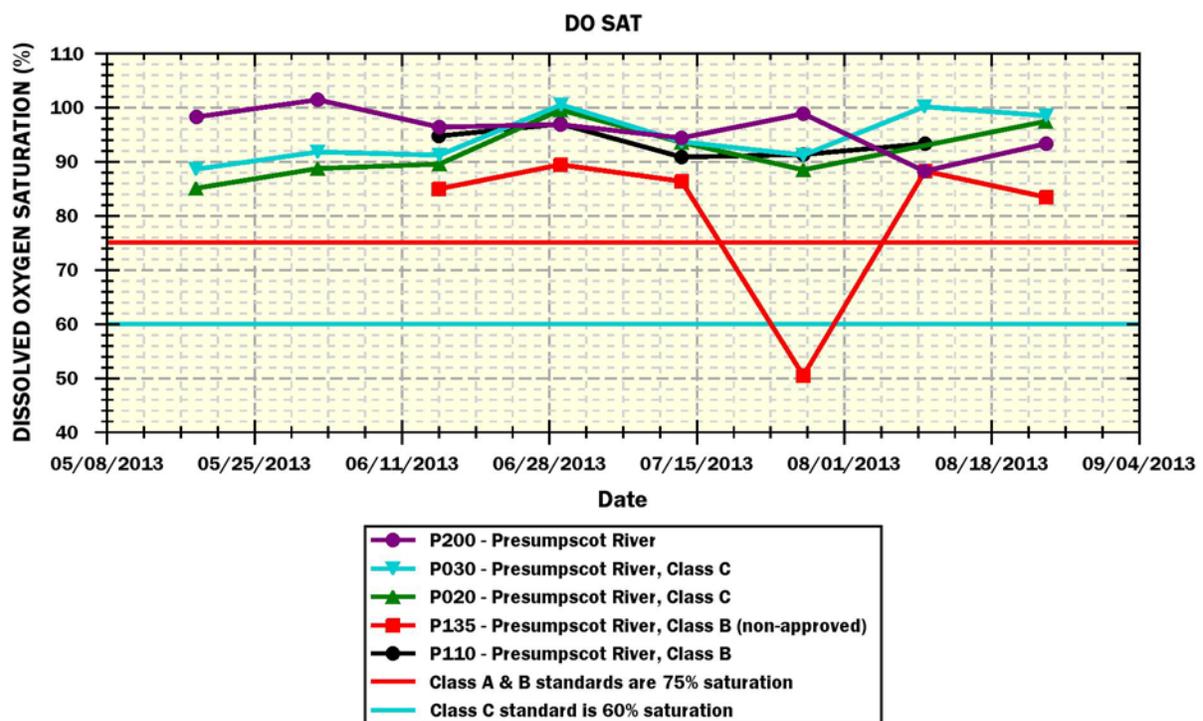


Figure 5-7-12: Graph of dissolved oxygen concentrations at sites on the upper Presumpscot tributaries.

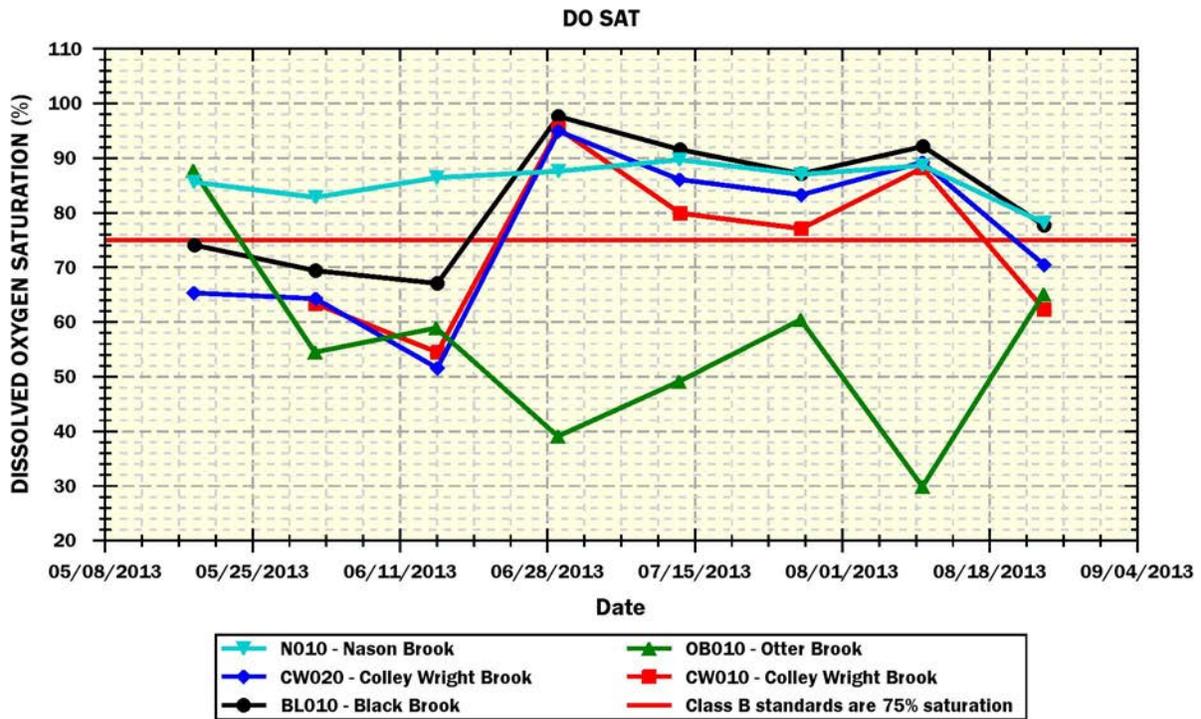


Figure 5-7-13: Graph of dissolved oxygen saturation at sites on the Pleasant River and tributaries

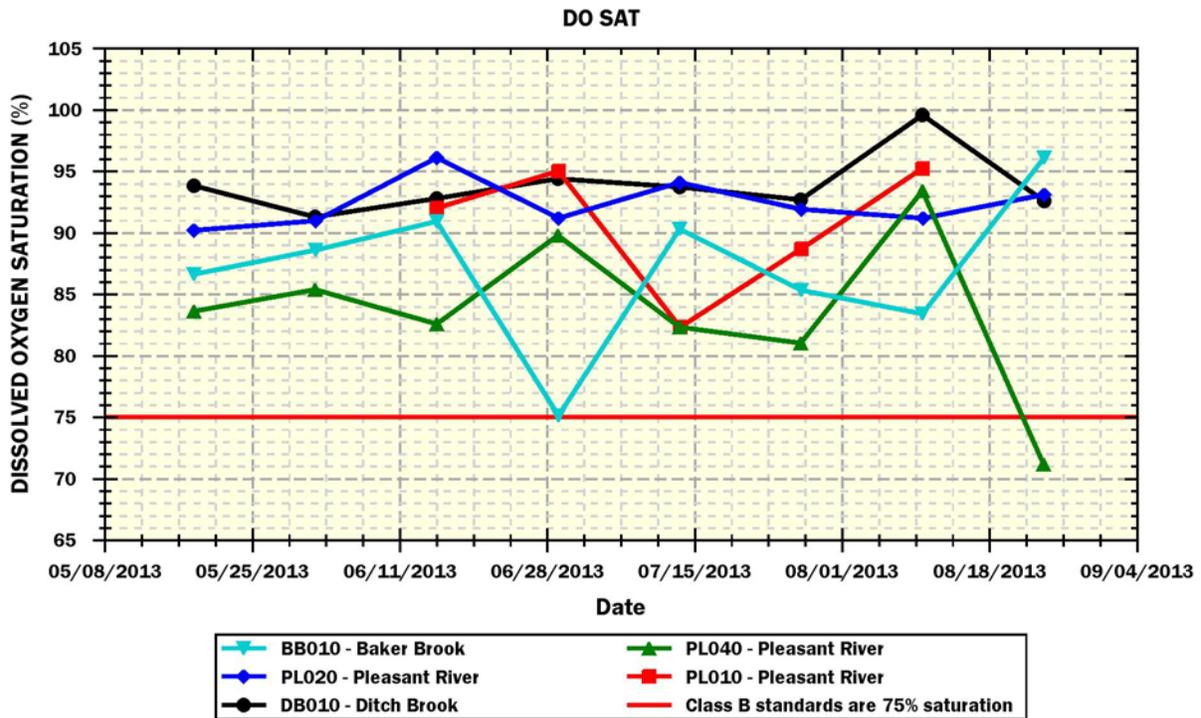


Figure 5-7-14: Graph of dissolved oxygen saturation at sites in the Little River catchment.

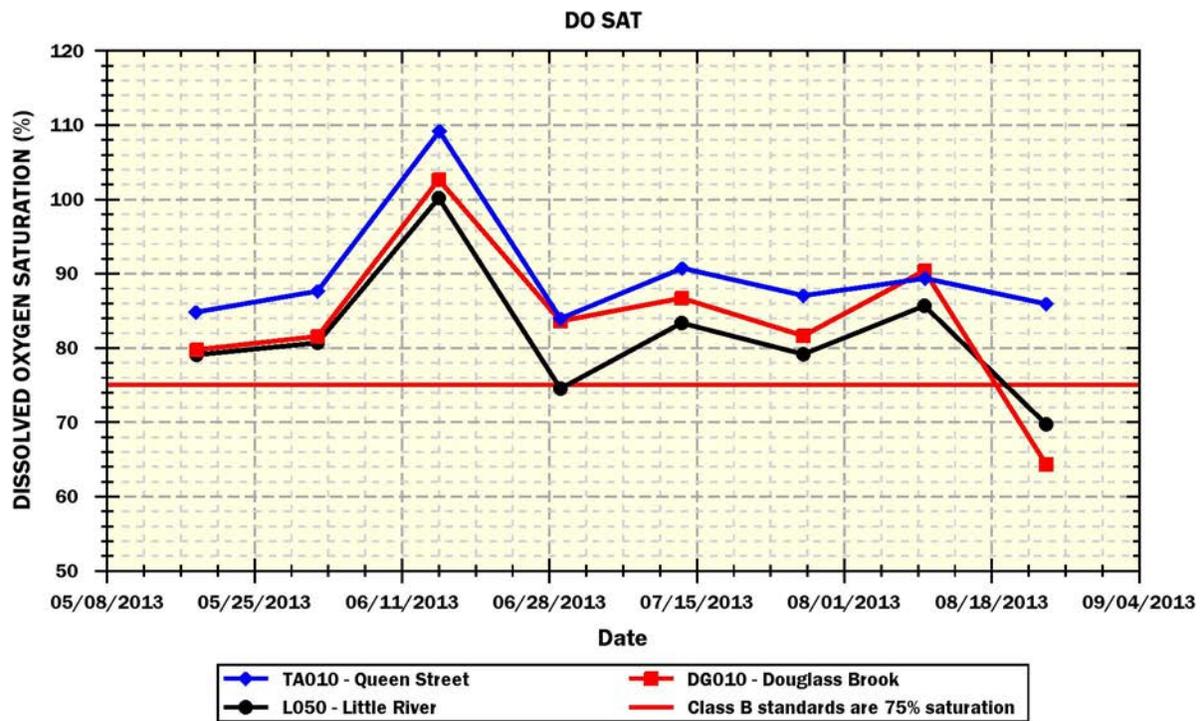


Figure 5-7-15: Graph of dissolved oxygen saturation at sites on the lower Presumpscot tributaries.

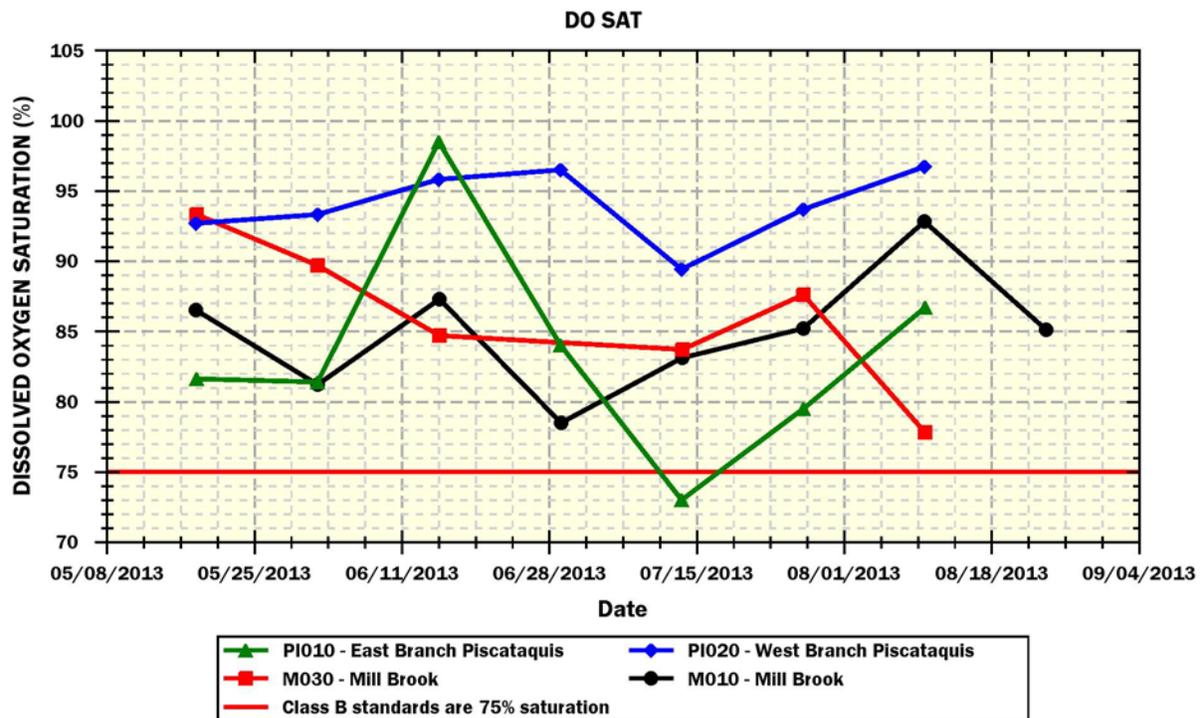


Table 5-7-3: A summary of minimum, maximum, and average dissolved oxygen saturation values (%) at Presumpscot River Watch monitoring sites.

Site	Approved Site	# of Samples	Minimum Value	Maximum Value	Average Value
P200	Y	8	88.2	101.4	95.96
OB010	Y	8	29.8	87.6	55.51
N010	Y	8	78.1	89.6	85.68
BB010	Y	8	75.1	96.1	87.04
DB010	Y	8	91.3	99.6	93.86
PL040	Y	8	71.2	93.4	83.66
PL020	Y	8	90.2	96.1	92.35
PL010	Y	5	82.3	95.2	90.64
P135	N	6	50.4	89.4	80.47
BL010	Y	8	67	97.6	82.03
P110	Y	5	90.8	97	93.42
CW020	Y	8	51.5	94.9	75.59
CW010	Y	7	54.4	95.3	74.31
DG010	Y	8	64.3	102.6	83.8
L050	Y	8	69.7	100.1	81.5
TA010	Y	8	83.9	109.1	89.79
M030	Y	6	77.8	93.3	86.13
M010	Y	8	78.5	92.8	84.96
P030	Y	8	88.6	100.5	94.45
P020	Y	7	85.10	99.5	91.74
PI020	Y	7	89.4	96.7	94.01
PI010	Y	7	73	98.5	83.53

Water Temperature

All Sample Sites:

Temperature was measured 5-8 times at all five of the main stem sampling sites and 5-8 times at the seventeen tributary sites (Table 5-7-4). All temperature readings were taken before 8:30 AM. Water temperatures varied over time at all sites, increasing as the spring shifted into summer. Main stem water

temperatures are generally higher than tributaries. The average July/August water temperature for the main stem sample sites were 23.4°C/22.9°C. The average July/August water temperatures for the tributaries were 18.9°C/18.1°C. The difference between the main stem and the tributaries is due to resident time within dam impoundments and lack of tree cover across the width of the channel.

Figure 5-7-16: Graph of water temperature at sites on the main stem of the Presumpscot River

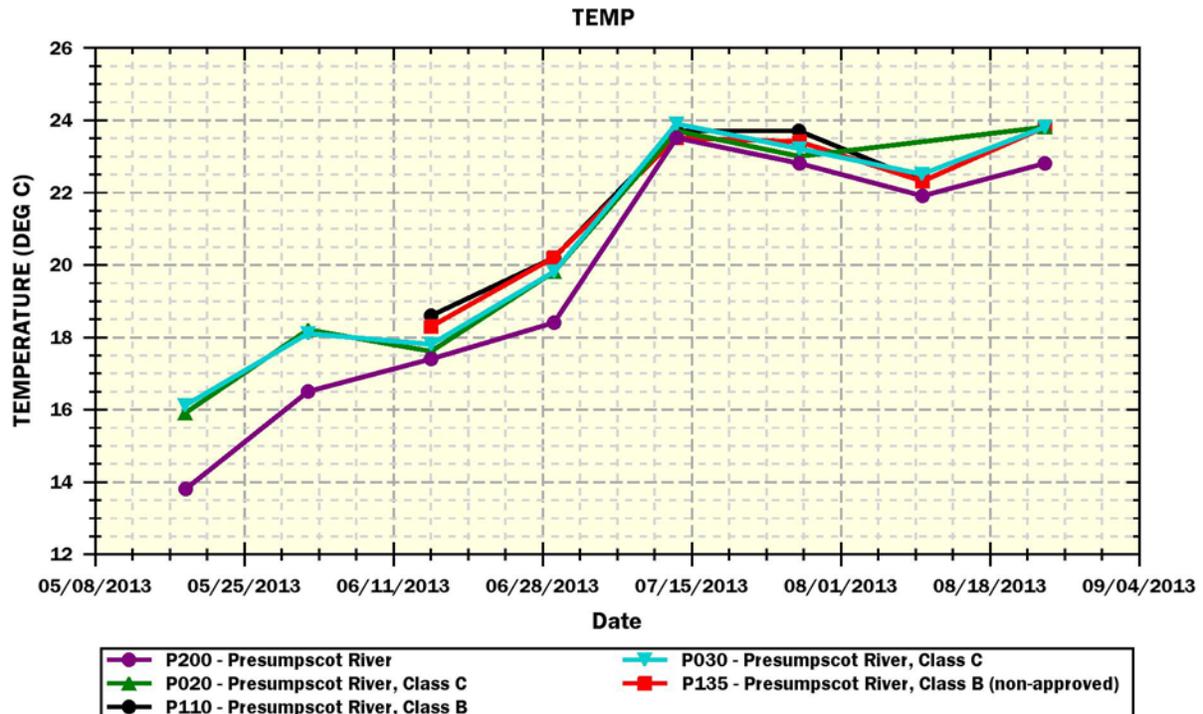


Figure 5-7-17: Graph of water temperature at sites on the upper Presumpscot tributaries.

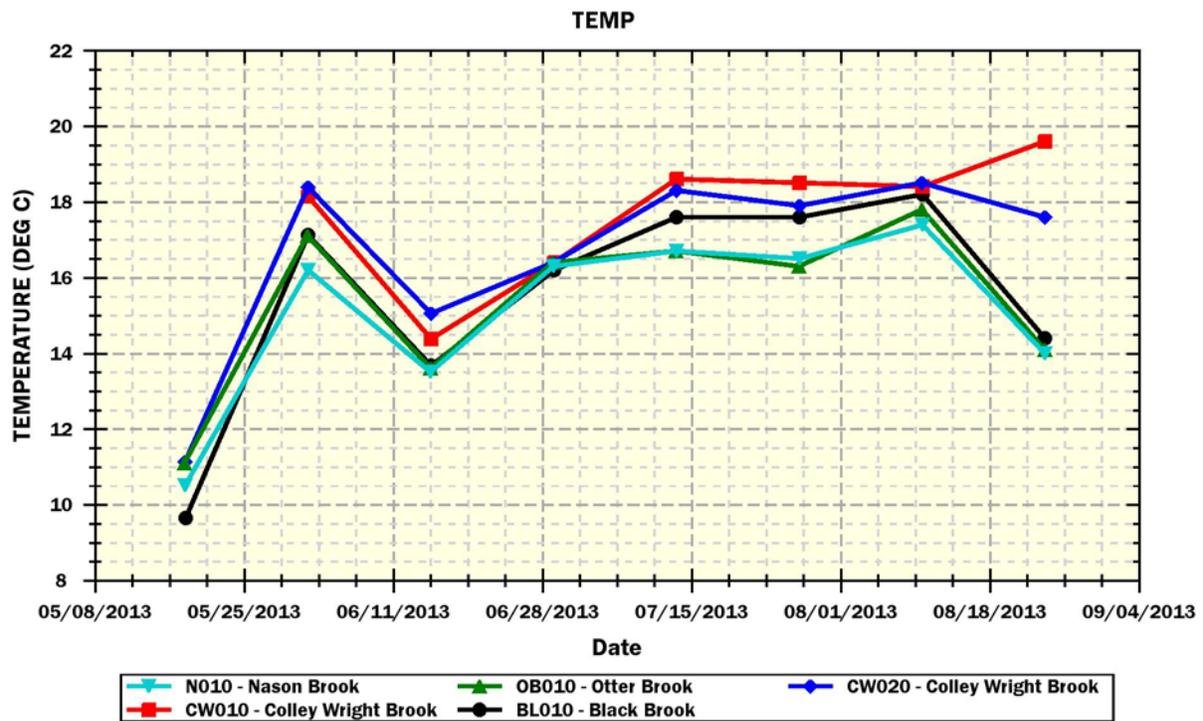


Figure 5-7-18: Graph of water temperature at sites on the Pleasant River and tributaries

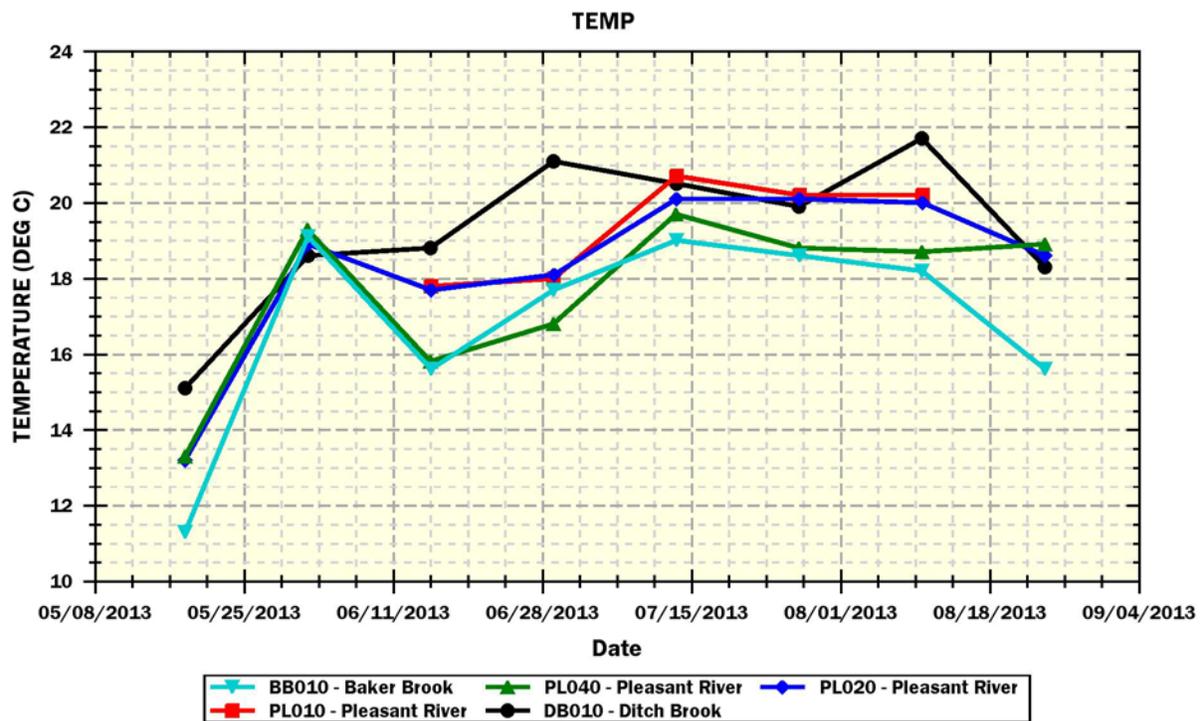


Figure 5-7-19: Graph of water temperature at sites in the Little River catchment.

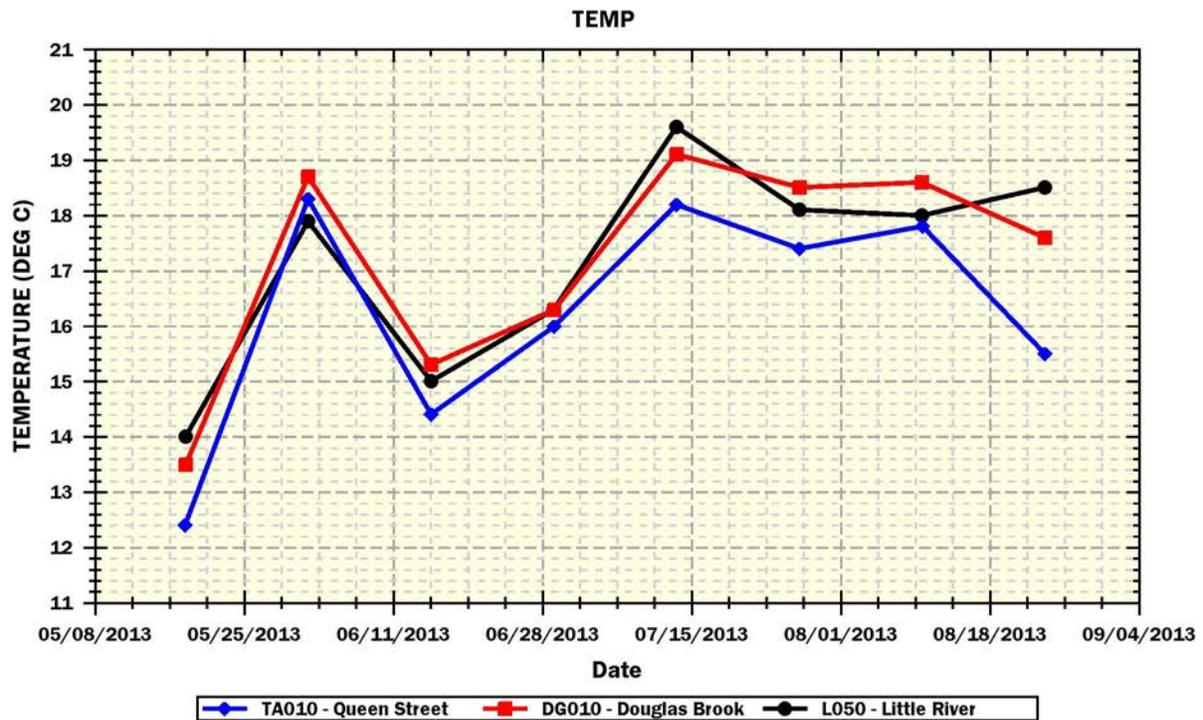


Figure 5-7- 20: Graph of water temperature at sites on the lower Presumpscot tributaries.

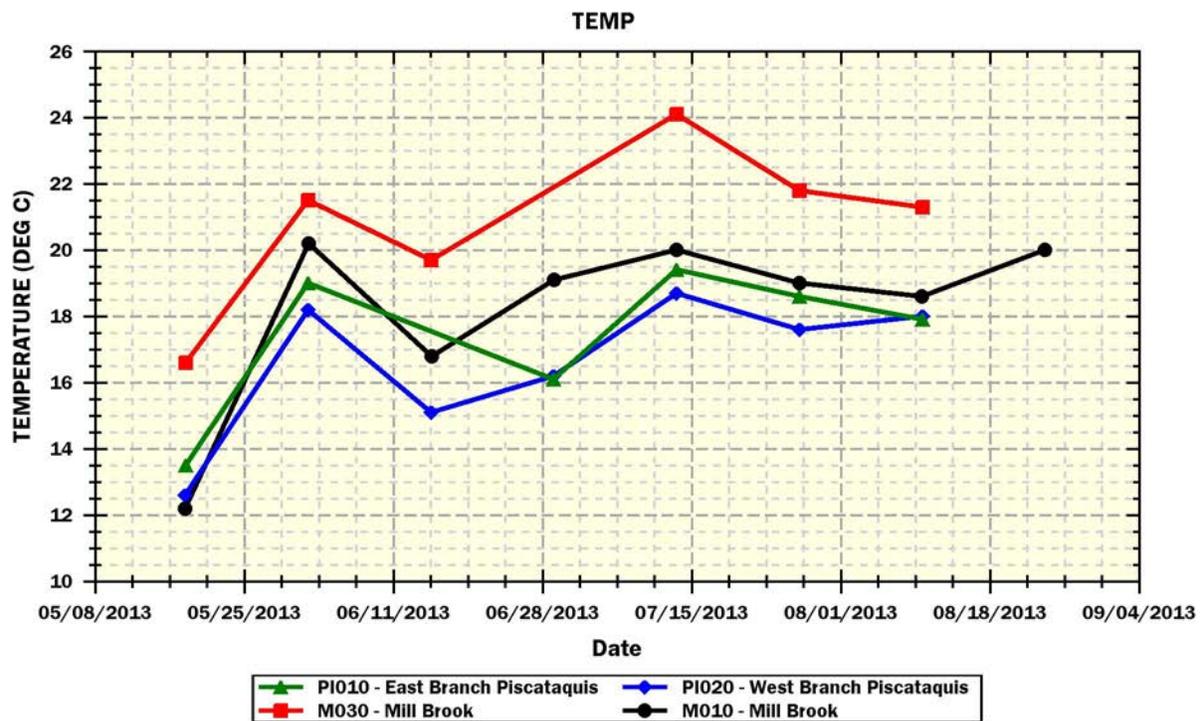


Table 5-7-4: A summary of minimum, maximum, and average water temperature values (°C) at Presumpscot River Watch monitoring sites.

Site	Approved Site	# of Samples	Minimum Value	Maximum Value	Average Value
P200	Y	8	13.8	23.5	19.64
OB010	Y	8	11.1	17.8	15.39
N010	Y	8	10.5	17.4	15.14
BB010	Y	8	11.3	19.1	16.89
DB010	Y	8	15.1	21.7	19.25
PL040	Y	8	13.3	19.7	17.66
PL020	Y	8	13.2	20.1	18.34
PL010	Y	5	17.8	20.7	19.38
P135	N	6	18.3	23.8	21.92
BL010	Y	8	9.65	18.2	15.56
P110	Y	5	18.6	23.7	21.7
CW020	Y	8	11.13	18.5	16.66
CW010	Y	7	14.38	19.6	17.72
DG010	Y	8	13.5	19.1	17.2
L050	Y	8	14	19.6	17.18
TA010	Y	8	12.4	18.3	16.25
M030	Y	6	16.6	24.1	20.83
M010	Y	8	12.2	20.2	18.24
P030	Y	8	16.1	23.9	20.65
P020	Y	7	15.9	23.8	20.29
PI020	Y	7	12.6	18.7	16.63
PI010	Y	6	13.5	19.4	17.42

Bacteria

Escherichia coli bacteria are used as the indicator organism for freshwaters. While this type of bacteria is not a pathogen, its presence in the water may indicate the presence of other organisms including bacteria and viruses that can cause gastrointestinal illnesses. Typically, observed high bacteria levels are associated with stormwater runoff and/or combined sewer overflows. Most of the *E. coli* samples dates did not have significant rainfall events within two days of sampling and would not be expected to be influenced by stormwater runoff. There were three dates when spikes in *E. coli* were observed at sample

sites in the main stem and the tributaries; June 29th and August 10th, and to a lesser extent July 27th. Rainfall was observed within 24 hours prior to sampling. These observations correlate with the precipitation readings at the Portland Jetport (Figure 5-7-5).

Class B criteria for bacteria are as follows: “Between May 15th and September 30th, the number of *Escherichia coli* of human and domestic origin shall not exceed a geometric mean of 64/100 ml (milliliters) or an instantaneous level of 236/100 ml.” Class C criteria are: “Between May 15th and September 30th, the number of *Escherichia coli* of human and domestic origin shall not exceed a geometric mean of 126/100 ml (milliliters) or an instantaneous level of 236/100 ml.” 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.

Presumpscot Main stem:

E. coli bacteria were sampled 5-8 times at each of the five main stem sampling sites (Table 5-7-5). The main stem of the Presumpscot had violations of the bacteria instantaneous criterion for at four of the five sites on June 29th and July 27th. This suggests a high probability that the exceedance is due to stormwater runoff. The two lower Presumpscot River sites P030 and P020 had instantaneous exceedances on 6 of 8 and 5 of 7 days respectively. Three of the five main stem sampling site exceeded the geometric mean criterion for either Class B or Class C waters.

Presumpscot Tributaries:

E. coli bacteria were sampled 5-8 times at each of the seventeen tributary sampling sites (Table 5-7-5). Fifteen of seventeen tributary sampling sites exceeded Class B instantaneous criterion. Ten sites had at least four sample dates that exceeded the criterion. Fifteen of the seventeen sample sites exceeded the geometric mean criterion for Class B waters.

Figure 5-7-21: Graph of E. coli (MPN/ml) at sites on the main stem of the Presumpscot River

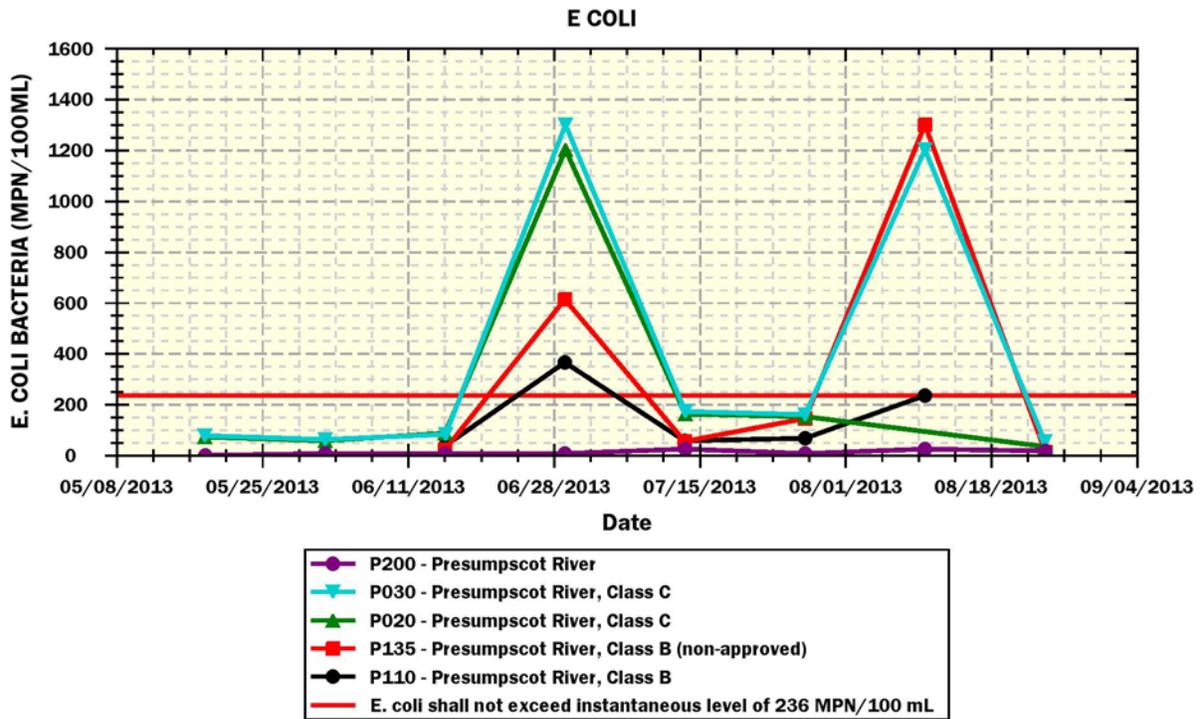


Figure 5-7-22: Graph of E. coli (MPN/ml) at sites on the upper Presumpscot tributaries.

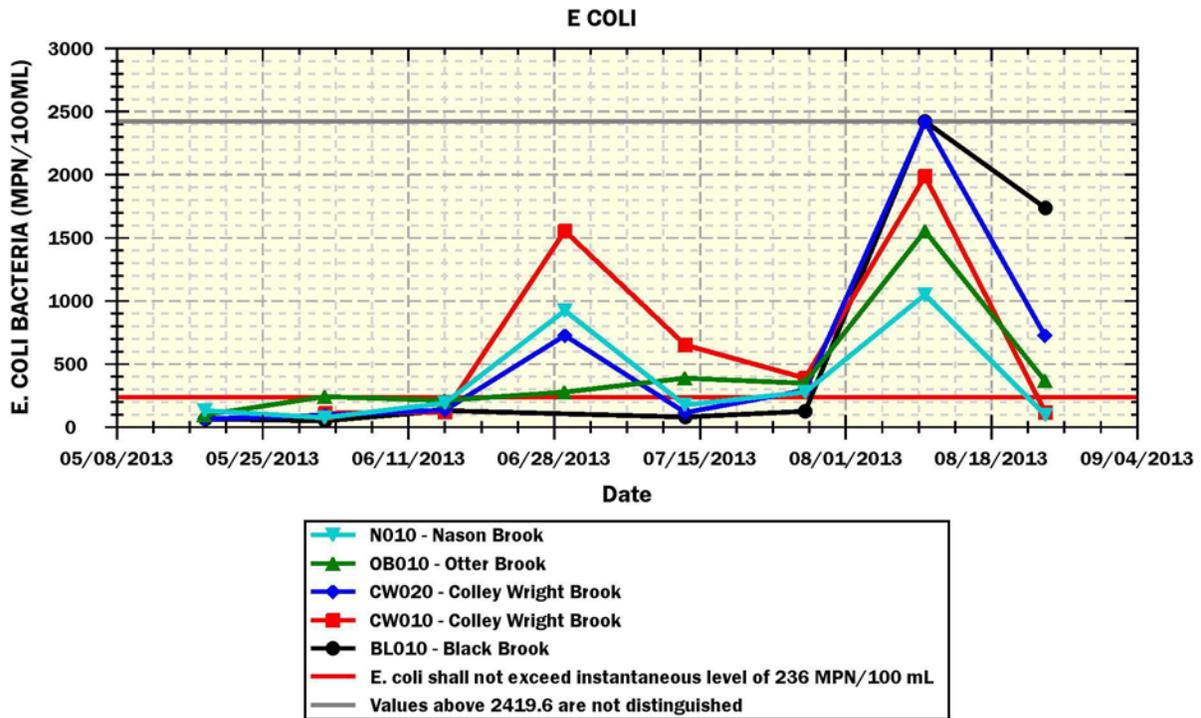


Figure 5-7-23: Graph of E. coli (MPN/ml) at sites on the Pleasant River and Tributaries

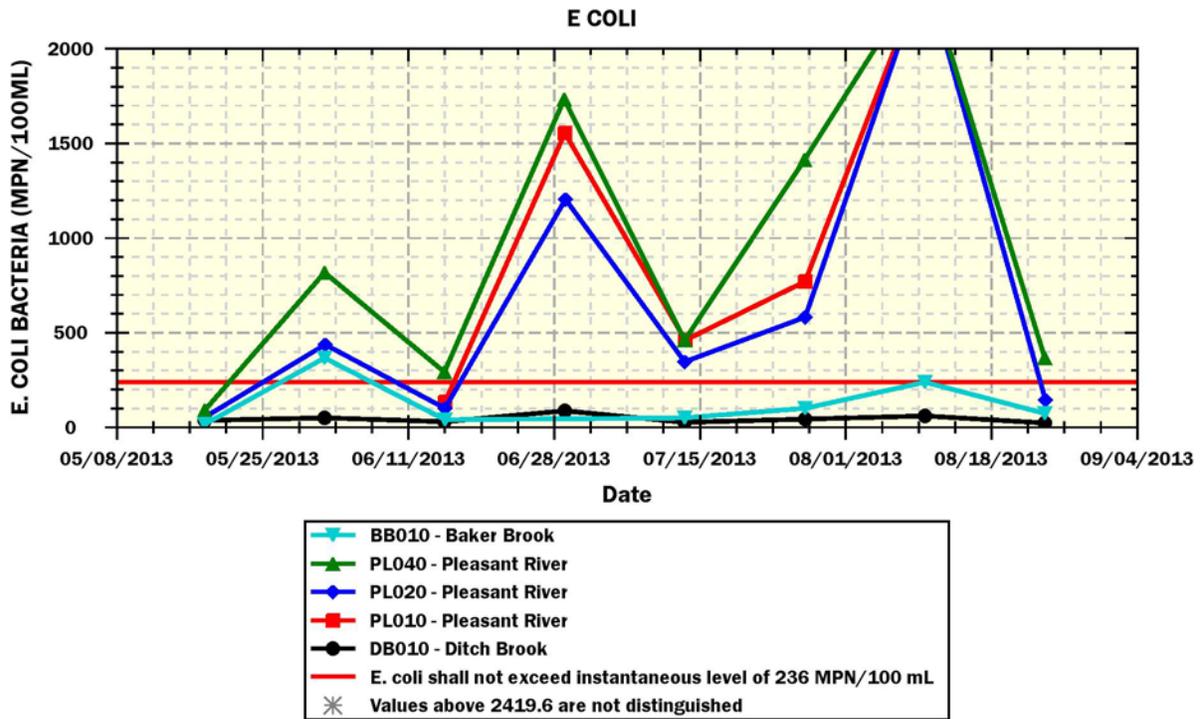


Figure 5-7-24: Graph of E. coli (MPN/ml) at sites at sites in the Little River catchment.

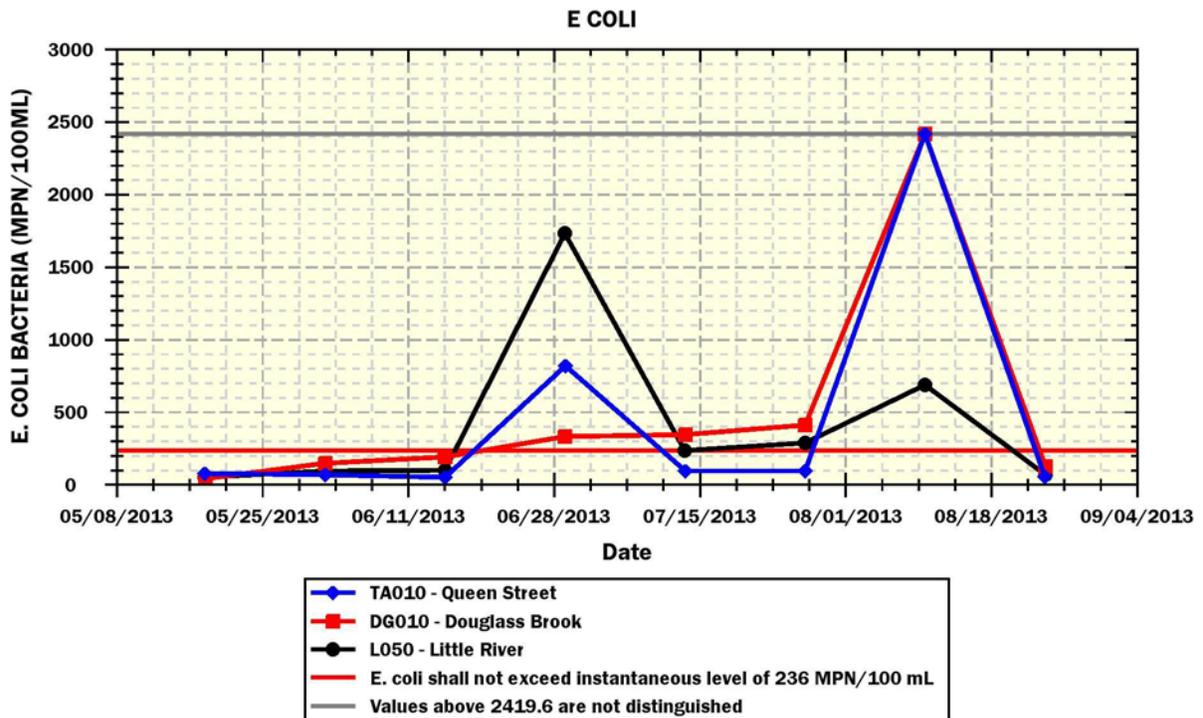


Figure 5-7- 25: Graph of *E. coli* (MPN/ml) at sites on the lower Presumpscot tributaries.

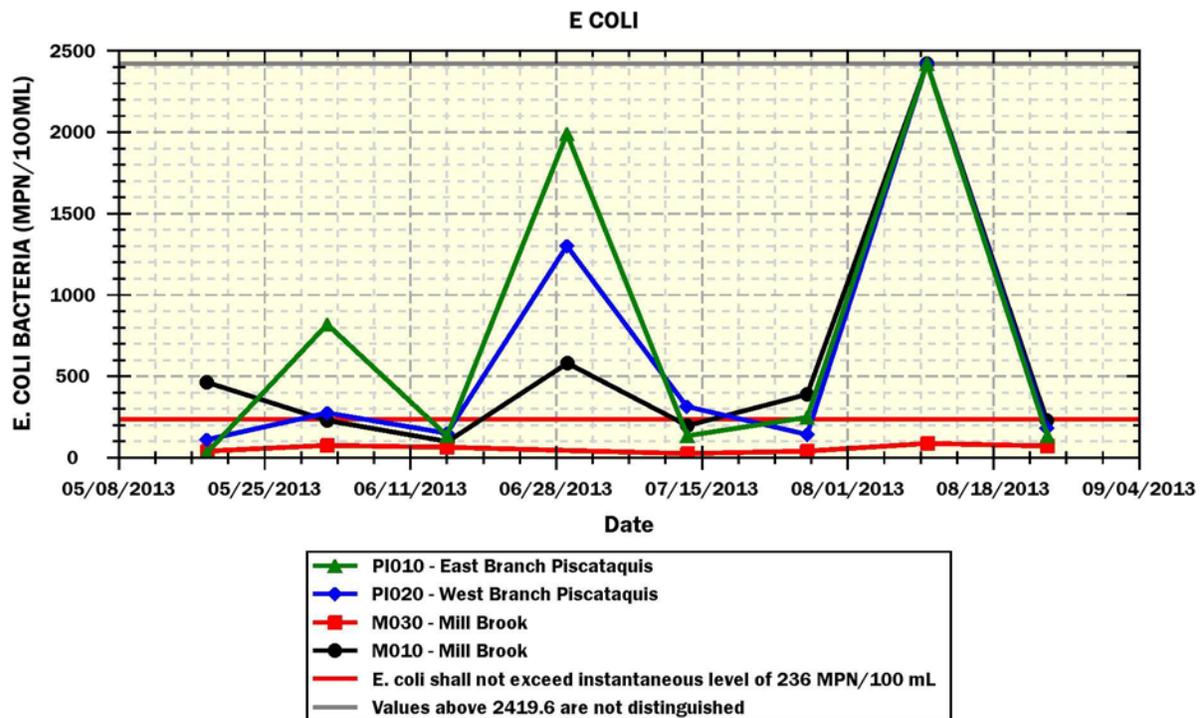


Table 5-7-5: A summary of minimum, maximum, and geometric mean values (MPN/100 mL) for bacteria at Presumpscot River Watch monitoring sites.

Site	Approved Site	# of Samples	Minimum Value	Maximum Value	Geometric Mean
P200	<i>E. coli</i>	8	1.0	24.6	8.6
OB010	<i>E. coli</i>	8	95.8	1553.1	316.2
N010	<i>E. coli</i>	8	75.4	1046.2	230.6
BB010	<i>E. coli</i>	7	15.8	365.4	78.3
DB010	<i>E. coli</i>	8	21.6	86.2	39.2
PL040	<i>E. coli</i>	8	88.2	>2419.6	616.7
PL020	<i>E. coli</i>	8	52.0	>2419.6	341.3
PL010	<i>E. coli</i>	5	133.3	>2419.6	708.0
P135	<i>E. coli</i>	6	13.4	1299.7	110.1
BL010	<i>E. coli</i>	7	45.5	>2419.6	205.0
P110	<i>E. coli</i>	5	38.4	365.4	104.9
CW020	<i>E. coli</i>	8	65.0	>2419.6	277.0

Table 5-7-2 (Continued): A summary of minimum, maximum, and geometric mean values (MPN/100 mL) for bacteria at Presumpscot River Watch monitoring sites.

Site	Approved Site	# of Samples	Minimum Value	Maximum Value	Geometric Mean
CW010	<i>E. coli</i>	7	109.2	1986.3	381.8
DG010	<i>E. coli</i>	8	42.6	>2419.6	252.9
L050	<i>E. coli</i>	8	51.2	1732.9	199.3
TA010	<i>E. coli</i>	8	51.2	2419.2	149.2
M030	<i>E. coli</i>	7	24.3	85.7	51.8
M010	<i>E. coli</i>	8	99.0	>2419.6	354.6
P030	<i>E. coli</i>	8	55.6	1299.7	176.8
P020	<i>E. coli</i>	7	35.0	1203.3	121.1
PI020	<i>E. coli</i>	8	110.0	>2419.6	320.9
PI010	<i>E. coli</i>	8	27.8	>2419.6	297.5

Discussion and Recommendations

The summer of 2013 was a relatively wet year on the Presumpscot River. May and June in particular had higher than normal rainfall and there were no prolonged dry periods. Records from the Sebago Lake dam show that discharge to the Presumpscot River dropped below 667cfs for only eight days during the summer; 333 cfs (7/22-7/25) and 416 cfs (8/6-8/11). In dryer years 270 cfs experienced in dryer years. Subsequently, overall dissolved oxygen levels were better in the main stem than most years. This trend is also shown in most of the tributaries.

More runoff events throughout the summer are a likely reason for more frequent exceedances in *E. coli* counts throughout the summer. This is a recurring issue with the Presumpscot and its tributaries. The upstream sample site P200, on the main stem and DB010 and M030 in the tributaries do not have these spikes in *E. coli* because of upstream impoundments and smaller size of the direct runoff catchments.

There are numerous sources of pollution and other stresses to the Presumpscot River watershed 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., eroded soil, fertilizers, pesticides, heavy metals, petroleum residues, road salt, wildlife and pet feces) and polluted stormwater originating from impervious surfaces (e.g., streets, parking lots, driveways, rooftops), agriculture, and forestry
- Dams and impoundments (which often create more pond-like aquatic habitat conditions that may have higher water temperatures and lower dissolved oxygen concentrations than if the river section was free-flowing)

- 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)
- Point sources (e.g., failing private septic systems, wastewater treatment plants, combined sewer overflows [CSO], and industrial discharges) of pollution.

The following are recommendations for future monitoring:

- Continue early morning sampling to document daily low dissolved oxygen readings. This is particularly important during the summer months of July to early September when temperatures are warmest, flows are low and dissolved oxygen tends to be at the lowest levels.
- Have non-VRMP approved sampling sites approved.
- Although access may be difficult, we strongly recommend an additional site directly upstream of Presumpscot Falls in order to document dissolved oxygen levels in the lowest freshwater reach of the river. This is where, longitudinally, the lowest dissolved oxygen readings for the lower Presumpscot are expected to be found.
- Further monitoring of *E. coli* bacteria in the tributaries in order to determine sources. Consider bracketing expected sources.
- There is now five years of record for the majority of most sample sites. Consider re-evaluating the necessity of some sites and the potential for additions. The Department can assist in data analysis. Two initial recommendations are:
 - Make a determination of the low DO cause on Otter Brook. It is likely attributed to natural flow conditions. Even though the low DO concentrations are excessive, the small catchment and subsequent flow rates to the Presumpscot have very little influence on the main stem concentration. Consider discontinuing or at least decreasing the frequency of sampling at Otter Brook.
 - Consider discontinuing sampling at the Park in Gambo. It is a non-approved site, appears to be influenced by proximity to the shore, and appears to skew the data when evaluating the conditions of the entire river. In addition SAPPI maintains a continuous DO and Temperature monitoring station in the impoundment at the Gambo dam. This is a more representative sample of the conditions in the impoundment.

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)
Presumpscot River, Presumpscot River Watch - Approved Sites:																
BB010	BAKER BROOK - RPLBK17 - VRMP	5/18/2013	6:40 AM	N			11.3	86.6	9.43	30					15.8	
BB010	BAKER BROOK - RPLBK17 - VRMP	6/1/2013	6:30 AM	N			19.1	88.6	8.18	30					365.4	
BB010	BAKER BROOK - RPLBK17 - VRMP	6/1/2013	6:30 AM	D											248.1	
BB010	BAKER BROOK - RPLBK17 - VRMP	6/15/2013	6:45 AM	N			15.6	90.9	9.02	30					37.3	
BB010	BAKER BROOK - RPLBK17 - VRMP	6/29/2013	6:40 AM	N			17.7	75.1	7.13	30						
BB010	BAKER BROOK - RPLBK17 - VRMP	7/13/2013	6:20 AM	N			19	90.3	8.39	40					48.7	
BB010	BAKER BROOK - RPLBK17 - VRMP	7/27/2013	6:25 AM	N			18.6	85.3	8.22	40					98.8	
BB010	BAKER BROOK - RPLBK17 - VRMP	8/10/2013	6:36 AM	N			18.2	83.4	7.85	40					235.9	
BB010	BAKER BROOK - RPLBK17 - VRMP	8/24/2013	6:36 AM	N			15.6	96.1	9.49	40					73.8	
BL010	BLACK BROOK- RBK05 -VRMP	5/18/2013	7:30 AM	N			9.65	74	8.13	154					63.1	
BL010	BLACK BROOK- RBK05 -VRMP	6/1/2013	7:25 AM	N			17.12	69.3	6.49	172					45.5	
BL010	BLACK BROOK- RBK05 -VRMP	6/15/2013	7:45 AM	N			13.67	67	6.77	187					127.4	
BL010	BLACK BROOK- RBK05 -VRMP	6/29/2013	7:30 AM	N			16.2	97.6	9.47	130						
BL010	BLACK BROOK- RBK05 -VRMP	7/13/2013	7:25 AM	N			17.6	91.5	8.8						78.9	
BL010	BLACK BROOK- RBK05 -VRMP	7/27/2013	7:20 AM	N			17.6	87.1	8.31	240					125.9	
BL010	BLACK BROOK- RBK05 -VRMP	8/10/2013	7:20 AM	N			18.2	92.1	8.69	190					>2419.6	
BL010	BLACK BROOK- RBK05 -VRMP	8/24/2013	7:20 AM	N			14.4	77.6	7.72	260					1732.87	
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	6/1/2013	7:10 AM	N			18.15	63.3	5.76	110					109.2	
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	6/15/2013	7:25 AM	N			14.38	54.4	5.37	131					121.1	
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	6/15/2013	7:25 AM	D			14.39	54.4	5.37	131						
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	6/29/2013	7:10 AM	N			16.4	95.3	9.22	80					1553.07	
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	7/13/2013	7:15 AM	N			18.6	79.8	7.54						648.8	
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	7/27/2013	7:10 AM	N			18.5	77.1	7.21	170					387.3	
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	8/10/2013	7:10 AM	N			18.4	88.1	8.24	170					1986.28	
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	8/24/2013	7:05 AM	N			19.6	62.2	5.7	190					115.3	

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)
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	8/24/2013	7:05 AM	D			19.6	62	5.7	190					186	
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	5/18/2013	6:50 AM	N			11.13	65.3	6.9	105					65	
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	6/1/2013	6:55 AM	N			18.39	64.2	5.96	106					93.3	
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	6/15/2013	7:15 AM	N			15.05	51.5	4.98	150					133.3	
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	6/15/2013	7:15 AM	D											137.6	
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	6/29/2013	6:50 AM	N			16.4	94.9	9.18	90					727	
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	7/13/2013	7:00 AM	N			18.3	86	8.17						115.3	
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	7/27/2013	6:50 AM	N			17.9	83.2	7.9	170					290.9	
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	8/10/2013	6:50 AM	N			18.5	89.2	8.38	160					2419.17	
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	8/24/2013	6:50 AM	N			17.6	70.4	6.71	190					727	
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	8/24/2013	6:50 AM	D											579.9	
DB010	DITCH BROOK - RPL00 - VRMP	5/18/2013	6:06 AM	N			15.1	93.8	9.8	140					35	
DB010	DITCH BROOK - RPL00 - VRMP	6/1/2013	6:13 AM	N			18.6	91.3	8.5						50.4	
DB010	DITCH BROOK - RPL00 - VRMP	6/15/2013	5:45 AM	N			18.8	92.8	8.6	90					28.8	
DB010	DITCH BROOK - RPL00 - VRMP	6/29/2013	5:48 AM	N			21.1	94.4	8.5	69.7					86.2	
DB010	DITCH BROOK - RPL00 - VRMP	7/13/2013	5:55 AM	N			20.5	93.7	8.3						24	
DB010	DITCH BROOK - RPL00 - VRMP	7/27/2013	6:19 AM	N			19.9	92.7	8.8						41	
DB010	DITCH BROOK - RPL00 - VRMP	8/10/2013	6:28 AM	N			21.7	99.6	8.7	90					60.1	
DB010	DITCH BROOK - RPL00 - VRMP	8/24/2013	6:29 AM	N			18.3	92.6	8.6	130					21.6	
DG010	DOUGLAS BROOK - RLTNBDG20 - VRMP	5/18/2013	7:35 AM	N			13.5	79.7	8.25	120					42.6	
DG010	DOUGLAS BROOK - RLTNBDG20 - VRMP	6/1/2013	7:02 AM	N			18.7	81.5	7.56	100					146.7	
DG010	DOUGLAS BROOK - RLTNBDG20 - VRMP	6/15/2013	6:54 AM	N			15.3	102.6	10.32	100					190.4	
DG010	DOUGLAS BROOK - RLTNBDG20 - VRMP	6/29/2013	7:05 AM	N			16.3	83.6	8.08	46.8					332.5	
DG010	DOUGLAS BROOK - RLTNBDG20 - VRMP	7/13/2013	6:59 AM	N			19.1	86.7	8.13	74.7					344.8	

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)
DG010	DOUGLAS BROOK - RLTNBDG20 - VRMP	7/27/2013	7:10 AM	N			18.5	81.6	7.63	85					410.6	
DG010	DOUGLAS BROOK - RLTNBDG20 - VRMP	8/10/2013	6:55 AM	N			18.6	90.4	8.39	64.4					2419.17	
DG010	DOUGLAS BROOK - RLTNBDG20 - VRMP	8/24/2013	7:20 AM	N			17.6	64.3	6.18						123.6	
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	5/18/2013	7:15 AM	N			13.5	81.6	8.45	159.3					27.8	
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	6/1/2013	7:05 AM	N			19	81.4	7.54	126.4					816.4	
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	6/15/2013	7:00 AM	N				98.5	8.66	115.5					131.3	
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	6/29/2013	6:47 AM	N			16.1	84	8.25	110					1988.28	
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	7/13/2013	7:00 AM	N			19.4	73	6.71	230					131.3	
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	7/27/2013	6:40 AM	N			18.6	79.5	7.44	230					248.1	
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	7/27/2013	6:40 AM	D											275.5	
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	8/10/2013	7:15 AM	N			17.9	86.7	8.14	210					>2419.6	
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	8/10/2013	7:15 AM	D											>2419.6	
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	8/24/2013	7:10 AM	N						300					131.3	
L050	LITTLE RIVER-L050-VRMP	5/18/2013	7:15 AM	N			14	79	8.09	150					51.2	
L050	LITTLE RIVER-L050-VRMP	6/1/2013	6:44 AM	N			17.9	80.7	7.63	120					93.3	
L050	LITTLE RIVER-L050-VRMP	6/15/2013	6:34 AM	N			15	100.1	10.01	110					96	
L050	LITTLE RIVER-L050-VRMP	6/29/2013	6:30 AM	N			16.3	74.5	7.2	45.1					1732.87	
L050	LITTLE RIVER-L050-VRMP	6/29/2013	6:30 AM	D			16.3	74.2	7.18	45.4					1986.28	
L050	LITTLE RIVER-L050-VRMP	7/13/2013	6:33 AM	N			19.6	83.3	7.7	75.5					235.9	
L050	LITTLE RIVER-L050-VRMP	7/27/2013	6:45 AM	N			18.1	79.1	7.45	92.4					285.1	
L050	LITTLE RIVER-L050-VRMP	7/27/2013	6:45 AM	D											328.2	
L050	LITTLE RIVER-L050-VRMP	8/10/2013	6:35 AM	N			18	85.6	8.04	94.5					686.7	
L050	LITTLE RIVER-L050-VRMP	8/24/2013	7:02 AM	N			18.5	69.7	6.58						67.7	
M010	MILL BROOK - RML01 - VRMP	5/18/2013	6:55 AM	N			12.2	86.5	9.45						461.1	
M010	MILL BROOK - RML01 - VRMP	6/1/2013	7:45 AM	N			20.2	81.2	7.42						228.2	
M010	MILL BROOK - RML01 - VRMP	6/15/2013	8:20 AM	N			16.8	87.3	8.45						99	
M010	MILL BROOK - RML01 - VRMP	6/29/2013	8:30 AM	N			19.1	78.5	7.24						579.4	
M010	MILL BROOK - RML01 - VRMP	6/29/2013	8:30 AM	D			19.1	79.7	7.33						727	

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)
M010	MILL BROOK - RML01 - VRMP	7/13/2013	7:30 AM	N			20	83.1	7.71						193.5	
M010	MILL BROOK - RML01 - VRMP	7/27/2013	7:55 AM	N			19	85.2	7.93						387.3	
M010	MILL BROOK - RML01 - VRMP	8/10/2013	6:30 AM	N			18.6	92.8	8.72						>2419.6	
M010	MILL BROOK - RML01 - VRMP	8/24/2013	6:40 AM	N			20	85.1	7.61						228.2	
M030	MILL BROOK - RML63 - VRMP	5/18/2013	7:45 AM	N			16.6	93.3	8.97	47.9					39.3	
M030	MILL BROOK - RML63 - VRMP	6/1/2013	7:35 AM	N			21.5	89.7	7.92	46.7					74.4	
M030	MILL BROOK - RML63 - VRMP	6/15/2013	7:25 AM	N			19.7	84.7	8.11	45.8					61.3	
M030	MILL BROOK - RML63 - VRMP	7/13/2013	7:20 AM	N			24.1	83.7	7.02	80					24.3	
M030	MILL BROOK - RML63 - VRMP	7/27/2013	7:00 AM	N			21.8	87.6	7.69	80					37.3	
M030	MILL BROOK - RML63 - VRMP	8/10/2013	7:30 AM	N			21.3	77.8	8.11	90					85.7	
M030	MILL BROOK - RML63 - VRMP	8/24/2013	7:20 AM	N						90					71.7	
N010	NASON BROOK - RNS11 - VRMP	5/18/2013	6:30 AM	N			10.5	85.5	9.5	90					129.6	
N010	NASON BROOK - RNS11 - VRMP	6/1/2013	6:38 AM	N			16.2	82.7	8.1						75.4	
N010	NASON BROOK - RNS11 - VRMP	6/15/2013	6:15 AM	N			13.5	86.4	8.9	90					191.8	
N010	NASON BROOK - RNS11 - VRMP	6/29/2013	6:35 AM	N			16.3	87.5	8.5	60					920.8	
N010	NASON BROOK - RNS11 - VRMP	6/29/2013	6:35 AM	D			16.3	86.9	8.5	70					1119.85	
N010	NASON BROOK - RNS11 - VRMP	7/13/2013	6:19 AM	N			16.7	89.6	8.6						172.2	
N010	NASON BROOK - RNS11 - VRMP	7/27/2013	6:40 AM	N			16.5	87	8.4						275.5	
N010	NASON BROOK - RNS11 - VRMP	8/10/2013	7:00 AM	N			17.4	88.6	8.4	80					1046.24	
N010	NASON BROOK - RNS11 - VRMP	8/24/2013	6:58 AM	N			14	78.1	8	110					93.3	
OB010	OTTER BROOK - ROT06 - VRMP	5/18/2013	5:26 AM	N			11.1	87.6	8.7						95.8	
OB010	OTTER BROOK - ROT06 - VRMP	6/1/2013	5:38 AM	N			17.1	54.4	5						238.2	
OB010	OTTER BROOK - ROT06 - VRMP	6/15/2013	5:15 AM	N			13.6	58.9	6.1						209.8	
OB010	OTTER BROOK - ROT06 - VRMP	6/29/2013	5:13 AM	N			16.4	39	4.1	130					275.5	
OB010	OTTER BROOK - ROT06 - VRMP	7/13/2013	5:16 AM	N			16.7	49	4.7						387.3	
OB010	OTTER BROOK - ROT06 - VRMP	7/27/2013	5:38 AM	N			16.3	60.4	5.9						344.8	
OB010	OTTER BROOK - ROT06 - VRMP	8/10/2013	5:47 AM	N			17.8	29.8	2.8						1553.07	
OB010	OTTER BROOK - ROT06 - VRMP	8/24/2013	5:54 AM	N			14.1	65	6.6						365.4	
OB010	OTTER BROOK - ROT06 - VRMP	8/24/2013	5:54 AM	D											275.5	
PI020	PISCATAQUA RIVER - RPS12 - VRMP	5/18/2013	6:45 AM	N			12.6	92.7	9.85	147.8					110	
PI020	PISCATAQUA RIVER - RPS12 - VRMP	5/18/2013	6:45 AM	D											104.3	
PI020	PISCATAQUA RIVER - RPS12 - VRMP	6/1/2013	6:45 AM	N			18.2	93.3	8.79	114.4					272.3	
PI020	PISCATAQUA RIVER - RPS12 - VRMP	6/1/2013	6:45 AM	D											290.9	
PI020	PISCATAQUA RIVER - RPS12 - VRMP	6/15/2013	6:45 AM	N			15.1	95.8	9.63						150	
PI020	PISCATAQUA RIVER - RPS12 - VRMP	6/15/2013	6:45 AM	D											166.9	

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)
PI020	PISCATAQUA RIVER - RPS12 - VRMP	6/29/2013	6:35 AM	N			16.2	96.5	9.46	110					1299.65	
PI020	PISCATAQUA RIVER - RPS12 - VRMP	7/13/2013	6:45 AM	N			18.7	89.4	8.35	220					313	
PI020	PISCATAQUA RIVER - RPS12 - VRMP	7/27/2013	6:30 AM	N			17.6	93.7	8.94	240					142.1	
PI020	PISCATAQUA RIVER - RPS12 - VRMP	8/10/2013	7:05 AM	N			18	96.7	9.15	160					>2419.6	
PI020	PISCATAQUA RIVER - RPS12 - VRMP	8/24/2013	6:35 AM	N						330					178.9	
PL010	PLEASANT RIVER - RPL06 - VRMP	6/15/2013	6:45 AM	N			17.8	92	8.9						133.3	
PL010	PLEASANT RIVER - RPL06 - VRMP	6/29/2013	7:00 AM	N			18	95	8.97						1553.07	
PL010	PLEASANT RIVER - RPL06 - VRMP	7/13/2013	7:35 AM	N			20.7	82.3	7.29						461.1	
PL010	PLEASANT RIVER - RPL06 - VRMP	7/27/2013	6:40 AM	N			20.2	88.7	7.98						770.1	
PL010	PLEASANT RIVER - RPL06 - VRMP	8/10/2013	7:00 AM	N			20.2	95.2	8.62						>2419.6	
PL020	PLEASANT RIVER - RPL29 - VRMP	5/18/2013	7:07 AM	N			13.2	90.2	9.48	190					52	
PL020	PLEASANT RIVER - RPL29 - VRMP	6/1/2013	6:50 AM	N			18.9	91	8.42	170					435.2	
PL020	PLEASANT RIVER - RPL29 - VRMP	6/15/2013	7:10 AM	N			17.7	96.1	9.14	110					98.4	
PL020	PLEASANT RIVER - RPL29 - VRMP	6/29/2013	7:40 AM	N			18.1	91.2	8.62	130					1203.31	
PL020	PLEASANT RIVER - RPL29 - VRMP	6/29/2013	7:40 AM	D			18.1	91.2	8.61	130					1299.65	
PL020	PLEASANT RIVER - RPL29 - VRMP	7/13/2013	6:40 AM	N			20.1	94.1	8.52	180					344.8	
PL020	PLEASANT RIVER - RPL29 - VRMP	7/13/2013	6:40 AM	D											461.1	
PL020	PLEASANT RIVER - RPL29 - VRMP	7/27/2013	6:45 AM	N			20.1	91.9	8.32	140					579.4	
PL020	PLEASANT RIVER - RPL29 - VRMP	8/10/2013	7:21 AM	N			20	91.2	8.18	120					>2419.6	
PL020	PLEASANT RIVER - RPL29 - VRMP	8/24/2013	7:21 AM	N			18.6	93.1	8.74	180					142.1	
PL040	PLEASANT RIVER - RPL47 - VRMP	5/18/2013	5:47 AM	N			13.3	83.6	8.7	170					88.2	
PL040	PLEASANT RIVER - RPL47 - VRMP	6/1/2013	5:59 AM	N			19.3	85.4	7.4						816.4	
PL040	PLEASANT RIVER - RPL47 - VRMP	6/15/2013	5:32 AM	N			15.8	82.6	8.1	170					290.9	
PL040	PLEASANT RIVER - RPL47 - VRMP	6/29/2013	5:30 AM	N			16.8	89.8	8.7	160					1732.87	
PL040	PLEASANT RIVER - RPL47 - VRMP	7/13/2013	5:35 AM	N			19.7	82.3	7.4						461.1	
PL040	PLEASANT RIVER - RPL47 - VRMP	7/27/2013	5:58 AM	N			18.8	81	7.3						1413.6	
PL040	PLEASANT RIVER - RPL47 - VRMP	8/10/2013	6:05 AM	N			18.7	93.4	8.6	140					>2419.6	
PL040	PLEASANT RIVER - RPL47 - VRMP	8/24/2013	6:11 AM	N			18.9	71.2	6.5	250					365.4	
P110	PRESUMPCOT RIVER - R133 - VRMP	6/15/2013	6:35 AM	N			18.6	94.7	8.88						38.4	
P110	PRESUMPCOT RIVER - R133 - VRMP	6/29/2013	7:20 AM	N			20.2	97	8.78						365.4	
P110	PRESUMPCOT RIVER - R133 - VRMP	7/13/2013	6:35 AM	N			23.7	90.8	7.64						57.3	
P110	PRESUMPCOT RIVER - R133 - VRMP	7/27/2013	6:21 AM	N			23.7	91.3	7.42						67	

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)
P110	PRESUMPCOT RIVER - R133 - VRMP	8/10/2013	7:15 AM	N			22.3	93.3	8.09						235.9	
P200	PRESUMPCOT RIVER - R225 - VRMP	5/18/2013	7:35 AM	N			13.8	98.3	10.15	60					1	
P200	PRESUMPCOT RIVER - R225 - VRMP	6/1/2013	7:15 AM	N			16.5	101.4	9.87	50					7.4	
P200	PRESUMPCOT RIVER - R225 - VRMP	6/15/2013	7:33 AM	N			17.4	96.4	9.14	50					6.3	
P200	PRESUMPCOT RIVER - R225 - VRMP	6/29/2013	7:05 AM	N			18.4	96.8	9.15	50					7.4	
P200	PRESUMPCOT RIVER - R225 - VRMP	7/13/2013	7:10 AM	N			23.5	94.4	7.74	50					24.6	
P200	PRESUMPCOT RIVER - R225 - VRMP	7/27/2013	7:05 AM	N			22.8	98.9	8.55	60					8.5	
P200	PRESUMPCOT RIVER - R225 - VRMP	7/27/2013	7:05 AM	D			22.8	98.6	8.56	60					9.6	
P200	PRESUMPCOT RIVER - R225 - VRMP	8/10/2013	7:00 AM	N			21.9	88.2	7.75	60					23.8	
P200	PRESUMPCOT RIVER - R225 - VRMP	8/10/2013	7:00 AM	D											17.3	
P200	PRESUMPCOT RIVER - R225 - VRMP	8/24/2013	6:58 AM	N			22.8	93.3	7.89	50					17.3	
P020	PRESUMPCOT RIVER - R24 - VRMP	5/18/2013	6:15 AM	N			15.9	85.1	8.35						72.3	
P020	PRESUMPCOT RIVER - R24 - VRMP	6/1/2013	7:00 AM	N			18.2	88.7	8.37						57.6	
P020	PRESUMPCOT RIVER - R24 - VRMP	6/15/2013	7:40 AM	N			17.6	8.95	8.55						88.6	
P020	PRESUMPCOT RIVER - R24 - VRMP	6/29/2013	7:30 AM	N			19.8	99.5	9.05						1203.31	
P020	PRESUMPCOT RIVER - R24 - VRMP	7/13/2013	6:50 AM	N			23.7	93.5	7.88						162.4	
P020	PRESUMPCOT RIVER - R24 - VRMP	7/27/2013	7:20 AM	N			23	88.5	7.63						151.5	
P020	PRESUMPCOT RIVER - R24 - VRMP	8/24/2013	6:10 AM	N			23.8	97.4	8.12						35	
P030	PRESUMPCOT RIVER - R47 - VRMP	5/18/2013	6:35 AM	N			16.1	88.6	8.71						78	
P030	PRESUMPCOT RIVER - R47 - VRMP	6/1/2013	7:30 AM	N			18.1	91.8	8.58						62.2	

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)
P030	PRESUMPCOT RIVER - R47 - VRMP	6/15/2013	8:05 AM	N			17.8	91.2	8.66						81.6	
P030	PRESUMPCOT RIVER - R47 - VRMP	6/15/2013	8:05 AM	D											93.3	
P030	PRESUMPCOT RIVER - R47 - VRMP	6/29/2013	8:10 AM	N			19.8	100.5	9.18						1299.65	
P030	PRESUMPCOT RIVER - R47 - VRMP	6/29/2013	8:10 AM	D											1203.31	
P030	PRESUMPCOT RIVER - R47 - VRMP	7/13/2013	7:10 AM	N			23.9	93.7	7.95						172.3	
P030	PRESUMPCOT RIVER - R47 - VRMP	7/27/2013	7:40 AM	N			23.2	91.2	7.81						160.7	
P030	PRESUMPCOT RIVER - R47 - VRMP	8/10/2013	6:15 AM	N			22.5	100.1	8.66						1203.31	
P030	PRESUMPCOT RIVER - R47 - VRMP	8/24/2013	6:25 AM	N			23.8	98.5	8.34						55.6	
TA010	TANNERY BROOK - RLTTN06 - VRMP	5/18/2013	6:35 AM	N			12.4	84.8	9.11	340					76.2	
TA010	TANNERY BROOK - RLTTN06 - VRMP	6/1/2013	7:25 AM	N			18.3	87.6	8.28	270					68.3	
TA010	TANNERY BROOK - RLTTN06 - VRMP	6/15/2013	7:15 AM	N			14.4	109.1	11.07	280					51.2	
TA010	TANNERY BROOK - RLTTN06 - VRMP	6/15/2013	7:15 AM	D											52.1	
TA010	TANNERY BROOK - RLTTN06 - VRMP	6/29/2013	7:25 AM	N			16	83.9	8.18	94.9					816.4	
TA010	TANNERY BROOK - RLTTN06 - VRMP	7/13/2013	7:22 AM	N			18.2	90.7	8.65	18.4					93.2	
TA010	TANNERY BROOK - RLTTN06 - VRMP	7/27/2013	7:30 AM	N			17.4	87	8.37	37.5					93.3	
TA010	TANNERY BROOK - RLTTN06 - VRMP	8/10/2013	7:15 AM	N			17.8	89.3	8.46	150					2419.17	
TA010	TANNERY BROOK - RLTTN06 - VRMP	8/24/2013	6:42 AM	N			15.5	85.9	8.66						53.7	

Presumpscot River, Presumpscot River Watch - Non-Approved Sites:

P135	PRESUMPCOT RIVER - R157 - PRW	6/15/2013	6:33 AM	N			18.3	84.9	7.9	70					21.6	
P135	PRESUMPCOT RIVER - R157 - PRW	6/29/2013	7:00 AM	N			20.2	89.4	8.2	60					613.1	
P135	PRESUMPCOT RIVER - R157 - PRW	7/13/2013	6:37 AM	N			23.5	86.4	7.4						53.8	
P135	PRESUMPCOT RIVER - R157 - PRW	7/27/2013	7:08 AM	N			23.4	50.4	4.8						143.9	
P135	PRESUMPCOT RIVER - R157 - PRW	8/10/2013	7:18 AM	N			22.3	88.3	7.6	70					1299.65	

Presumpscot River - Presumpscot River Watch

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)
P135	PRESUMPCOT RIVER - R157 - PRW	8/24/2013	7:16 AM	N			23.8	83.4	7	50					13.4	

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
Presumpscot River, Presumpscot River Watch - Approved Sites:															
BB010	BAKER BROOK - RPLBK17 - VRMP	5/18/2013	6:40 AM	N	BASE FLOW	MED	7.778	WADING	CLEAR	CALM	PARTLY CLOUDY	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
BB010	BAKER BROOK - RPLBK17 - VRMP	6/1/2013	6:30 AM	N	BASE FLOW	MED		WADING	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
BB010	BAKER BROOK - RPLBK17 - VRMP	6/1/2013	6:30 AM	D				WADING							NON-WADEABLE/MID-DEPTH
BB010	BAKER BROOK - RPLBK17 - VRMP	6/15/2013	6:45 AM	N	BASE FLOW	MED		WADING	CLEAR	CALM	CLEAR, CLOUDY, SHOWERS	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
BB010	BAKER BROOK - RPLBK17 - VRMP	6/29/2013	6:40 AM	N	STORM FLOW	HIGH		WADING	CLOUDY, FOGGY		CLOUDY, FOGGY, LIGHT RAIN	RIFFLE		MEDIUM STAINED	NO E. COLI DATA, SAMPLE LABELS CONFUSED IN FIELD WADEABLE/MID-DEPTH
BB010	BAKER BROOK - RPLBK17 - VRMP	7/13/2013	6:20 AM	N	BASE FLOW	MED		WADING	CLEAR		CLEAR, PARTLY CLOUDY	RUN		MEDIUM STAINED	LANCE GURNEY TRANSPORTED SAMPLES TO LAB FOR ABE WADEABLE/MID-DEPTH
BB010	BAKER BROOK - RPLBK17 - VRMP	7/27/2013	6:25 AM	N	BASE FLOW	MED		WADING	CLEAR		CLOUDY, LIGHT RAIN, SHOWERS	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
BB010	BAKER BROOK - RPLBK17 - VRMP	8/10/2013	6:36 AM	N	BASE FLOW	MED		WADING	CLEAR, FOGGY	CALM	FOGGY, LIGHT RAIN, MOSTLY CLOUDY, SHOWERS	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
BB010	BAKER BROOK - RPLBK17 - VRMP	8/24/2013	6:36 AM	N	BASE FLOW	LOW		WADING	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
BL010	BLACK BROOK - RBK05 - VRMP	5/18/2013	7:30 AM	N	BASE FLOW	LOW	8.889	WADING	CLEAR		CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
BL010	BLACK BROOK - RBK05 - VRMP	6/1/2013	7:25 AM	N	BASE FLOW	MED	20	WADING	CLEAR	CALM	CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
BL010	BLACK BROOK - RBK05 - VRMP	6/15/2013	7:45 AM	N	BASE FLOW	MED	17.6	WADING	CLEAR	CALM	CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
BL010	BLACK BROOK - RBK05 - VRMP	6/29/2013	7:30 AM	N	STORM FLOW	HIGH	20	WADING	CLOUDY, LIGHT RAIN			RUN		TURBID	NO E. COLI DATA, SAMPLE LABELS CONFUSED IN FIELD NON-WADEABLE/MID-DEPTH
BL010	BLACK BROOK - RBK05 - VRMP	7/13/2013	7:25 AM	N	BASE FLOW	MED	18.33	WADING	CLEAR		CLEAR	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
BL010	BLACK BROOK - RBK05 - VRMP	7/27/2013	7:20 AM	N	BASE FLOW	MED	20	WADING	CLEAR	CALM	CLEAR, HEAVY RAIN	RUN		CLEAR	FOAM AT BL010 IN MINOR RIFFLE DOWNSTREAM FROM SAMPLE LOCATION WADEABLE/MID-DEPTH
BL010	BLACK BROOK - RBK05 - VRMP	8/10/2013	7:20 AM	N	STORM FLOW	HIGH	17.78	WADING	CLEAR, FOGGY		CLOUDY, FOGGY, HEAVY RAIN	RUN		TURBID	CONCENTRATION IS ACTUALLY >2419.6. VALUE FOR USE IN GEOMETRIC MEAN. WADEABLE/MID-DEPTH, WADEABLE/MID-DEPTH
BL010	BLACK BROOK - RBK05 - VRMP	8/24/2013	7:20 AM	N	BASE FLOW	LOW	18.33	WADING	CLEAR	CALM	CLEAR	RUN		CLEAR	VERY LOW & SLOW MOVING, ALGAE ON SAMPLE BAG WADEABLE/MID-DEPTH
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	6/1/2013	7:10 AM	N	BASE FLOW	MED	U<	WADING	CLEAR	CALM	CLEAR	RUN		TURBID	WADEABLE/1.5 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
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	6/15/2013	7:25 AM	N	STORM FLOW	HIGH	17.6	WADING	CLEAR	CALM	CLEAR	RUN		TURBID	WADEABLE/MID-DEPTH
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	6/15/2013	7:25 AM	D				WADING							WADEABLE/MID-DEPTH
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	6/29/2013	7:10 AM	N	STORM FLOW	HIGH	20	WADING	CLOUDY, LIGHT RAIN			RUN		TURBID	WADEABLE/1.5 FT BELOW SURFACE
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	7/13/2013	7:15 AM	N	BASE FLOW	MED	18.33	WADING	CLEAR		CLEAR	RUN		TURBID	WADEABLE/MID-DEPTH
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	7/27/2013	7:10 AM	N	BASE FLOW	MED	20	WADING	CLEAR	CALM	CLEAR, HEAVY RAIN	RUN		TURBID	WADEABLE/1.5 FT BELOW SURFACE
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	8/10/2013	7:10 AM	N	STORM FLOW		17.78	BANK	CLEAR, FOGGY		CLOUDY, FOGGY, HEAVY RAIN	RUN		TURBID	WADEABLE/1.5 FT BELOW SURFACE SAMPLE FROM BANK AND NOT "CENTER OF FLOW". SHOULD BE BY WADING OR WITH EXTENSION FLOW.
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	8/24/2013	7:05 AM	N	BASE FLOW	LOW	18.33	WADING	CLEAR	CALM	CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
CW010	COLLEY WRIGHT BROOK - RCW10 - VRMP	8/24/2013	7:05 AM	D				WADING							WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	5/18/2013	6:50 AM	N	BASE FLOW	LOW	8.889	WADING	CLEAR		CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	6/1/2013	6:55 AM	N	BASE FLOW	MED	20	WADING	CLEAR	CALM	CLEAR	RUN		TURBID	WADEABLE/1.5 FT BELOW SURFACE
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	6/15/2013	7:15 AM	N	BASE FLOW	MED	17.6	WADING	CLEAR	CALM	CLEAR	RUN		TURBID	WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	6/15/2013	7:15 AM	D				WADING							WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	6/29/2013	6:50 AM	N	STORM FLOW	HIGH	20	WADING	CLOUDY, LIGHT RAIN			RUN		TURBID	WADEABLE/1.5 FT BELOW SURFACE
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	7/13/2013	7:00 AM	N	BASE FLOW	MED	18.33	WADING	CLEAR		CLEAR	RUN		TURBID	WADEABLE/MID-DEPTH
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	7/27/2013	6:50 AM	N	BASE FLOW	MED	20	WADING	CLEAR	CALM	CLEAR, HEAVY RAIN	RUN		OPAQUE	WADEABLE/MID-DEPTH
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	8/10/2013	6:50 AM	N	STORM FLOW		17.78	WADING	CLEAR, FOGGY		CLOUDY, FOGGY, HEAVY RAIN	RUN		TURBID	WADEABLE/1.5 FT BELOW SURFACE
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	8/24/2013	6:50 AM	N	BASE FLOW	LOW	18.33	WADING	CLEAR	CALM	CLEAR	RUN		OPAQUE	WADEABLE/MID-DEPTH
CW020	COLLEY WRIGHT BROOK - RCW28 - VRMP	8/24/2013	6:50 AM	D				WADING							WADEABLE/MID-DEPTH
DB010	DITCH BROOK - RPL00 - VRMP	5/18/2013	6:06 AM	N	BASE FLOW	LOW	4.444	WADING	CLEAR, FOGGY	CALM	CLEAR	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
DB010	DITCH BROOK - RPL00 - VRMP	6/1/2013	6:13 AM	N	BASE FLOW	MED	17.78	WADING	CLEAR, FOGGY		CLEAR	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
DB010	DITCH BROOK - RPL00 - VRMP	6/15/2013	5:45 AM	N		HIGH	11.67	WADING	CLEAR, FOGGY	CALM	CLEAR, PARTLY CLOUDY	RIFFLE		MILKY	GROUND FOG WADEABLE/MID-DEPTH
DB010	DITCH BROOK - RPL00 - VRMP	6/29/2013	5:48 AM	N	STORM FLOW	HIGH	17.22	WADING	FOGGY	CALM	SHOWERS	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
DB010	DITCH BROOK - RPL00 - VRMP	7/13/2013	5:55 AM	N	BASE FLOW	LOW	16.67	WADING	CLEAR, PARTLY CLOUDY	CALM	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
DB010	DITCH BROOK - RPL00 - VRMP	7/27/2013	6:19 AM	N	BASE FLOW	HIGH	14.44	BANK	CLEAR	CALM	HEAVY RAIN	RIFFLE		CLEAR	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". SHOULD BE BY WADING OR WITH EXTENSION POLE.
DB010	DITCH BROOK - RPL00 - VRMP	8/10/2013	6:28 AM	N	STORM FLOW	HIGH	17.22	WADING	CLEAR	CALM	HEAVY RAIN, LIGHT RAIN, SHOWERS	RIFFLE		FOAMY	WADEABLE/MID-DEPTH
DB010	DITCH BROOK - RPL00 - VRMP	8/24/2013	6:29 AM	N	BASE FLOW	LOW	10.56	BANK			CLEAR	RIFFLE		CLEAR	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". SHOULD BE BY WADING OR EXTENSION POLE.
DG010	DOUGLAS BROOK - RLTNBDG20 - VRMP	5/18/2013	7:35 AM	N	BASE FLOW	LOW	5.556	WADING	CLEAR	CALM	PARTLY CLOUDY	RIFFLE		MEDIUM STAINED	WADEABLE/MID-DEPTH D.O. METER- DID NOT ALLOW IT TO WARM UP FOR 20 MIN (15 MIN).
DG010	DOUGLAS BROOK - RLTNBDG20 - VRMP	6/1/2013	7:02 AM	N	BASE FLOW	MED	18.33	WADING	CLEAR		CLEAR	RIFFLE		MEDIUM STAINED	WADEABLE/MID-DEPTH
DG010	DOUGLAS BROOK - RLTNBDG20 - VRMP	6/15/2013	6:54 AM	N	BASE FLOW	MED	11.9	BANK	CLEAR	CALM	SHOWERS	RIFFLE		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". SHOULD BE BY WADING OR EXTENSION POLE.
DG010	DOUGLAS BROOK - RLTNBDG20 - VRMP	6/29/2013	7:05 AM	N	STORM FLOW	HIGH	18.3	WADING	FOGGY, LIGHT RAIN	CALM	FOGGY, HEAVY RAIN, LIGHT RAIN	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
DG010	DOUGLAS BROOK - RLTNBDG20 - VRMP	7/13/2013	6:59 AM	N	BASE FLOW	LOW	19.8	BANK	CLEAR	CALM	CLEAR	RIFFLE		MEDIUM STAINED	WATER ODOR "LIGHTLY" SEWAGE WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". SHOULD BE BY WADING OR EXTENSION POLE.
DG010	DOUGLAS BROOK - RLTNBDG20 - VRMP	7/27/2013	7:10 AM	N	BASE FLOW	LOW	19.1	BANK	CLEAR	CALM	LIGHT RAIN, MOSTLY CLOUDY, SHOWERS	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". SHOULD BE BY WADING OR EXTENSION POLE.
DG010	DOUGLAS BROOK - RLTNBDG20 - VRMP	8/10/2013	6:55 AM	N	STORM FLOW	MED	22.5	WADING	CLEAR, PARTLY CLOUDY	CALM	HEAVY RAIN, SHOWERS	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
DG010	DOUGLAS BROOK - RLTNBDG20 - VRMP	8/24/2013	7:20 AM	N	BASE FLOW	LOW	11.11	WADING		CALM	CLEAR	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	5/18/2013	7:15 AM	N	BASE FLOW	LOW	12.78	WADING	CLEAR		PARTLY CLOUDY	RIFFLE		MEDIUM STAINED	WADEABLE/MID-DEPTH
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	6/1/2013	7:05 AM	N	BASE FLOW	MED	19.44	WADING	CLEAR	CALM	CLEAR	RUN		DARKLY STAINED	WADEABLE/MID-DEPTH D.O. METER- DID NOT ALLOW IT TO WARM UP AT LEAST 20 MINUTES.
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	6/15/2013	7:00 AM	N	BASE FLOW	LOW	12.78	WADING	CLEAR	BREEZE	CLEAR, MOSTLY CLOUDY, PARTLY CLOUDY, SHOWERS	RIFFLE		TURBID	WADEABLE/MID-DEPTH WATER TEMPERATURE NOT ENTERED-FIELD SHEET DIFFICULT TO READ.
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	6/29/2013	6:47 AM	N	STORM FLOW	HIGH		BANK	CLOUDY		HEAVY RAIN	RIFFLE		DARKLY STAINED	WADEABLE/MID-DEPTH D.O. METER-DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20 MINUTES.
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	7/13/2013	7:00 AM	N	BASE FLOW	LOW		WADING	CLEAR		CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH D.O. METER-D ID NOT ALLOW IT TO WARM UP FOR AT LEAST 20 MINUTES.
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	7/27/2013	6:40 AM	N	BASE FLOW	LOW		WADING	CLEAR, PARTLY CLOUDY		MOSTLY CLOUDY	RUN		MEDIUM STAINED	48 HOURS AGO HEAVY RAIN WADEABLE/MID-DEPTH D.O. METER TIME OF CALIBRATION WAS NOT RECORDED. NOT SURE IF METER ALLOWED TO WARM UP FOR AT LEAST 20 MINUTES.
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	7/27/2013	6:40 AM	D				WADING							48 HOURS AGO HEAVY RAIN WADEABLE/MID-DEPTH D.O. METER TIME OF CALIBRATION WAS NOT RECORDED. NOT SURE IF METER ALLOWED TO WARM UP FOR AT LEAST 20 MINUTES.

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
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	8/10/2013	7:15 AM	N	STORM FLOW	HIGH	17.22	WADING	CLEAR	CALM	CLOUDY, HEAVY RAIN, LIGHT RAIN, MOSTLY CLOUDY	RIFFLE		TURBID	CONCENTRATION IS ACTUALLY >2419.6. VALUE FOR USE IN GEOMETRIC MEAN. WADEABLE/MID-DEPTH D.O. METER-DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20 MINUTES., WADEABLE/MID-DEPTH D.O. METER-DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20 MINUTES.
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	8/10/2013	7:15 AM	D				WADING							CONCENTRATION IS ACTUALLY >2419.6. VALUE FOR USE IN GEOMETRIC MEAN. WADEABLE/MID-DEPTH D.O. METER-DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20 MINUTES.
PI010	EAST BRANCH PISCATAQUA RIVER - RPSEB05 - VRMP	8/24/2013	7:10 AM	N	BASE FLOW	LOW		WADING	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	YSI TOOK A LONG TIME TO WARM UP. NO DO SAMPLES TODAY WADEABLE/MID-DEPTH
L050	LITTLE RIVER-L050-VRMP	5/18/2013	7:15 AM	N	BASE FLOW	LOW	5.556	BRIDGE	CLEAR	CALM	PARTLY CLOUDY	RUN		DARKLY STAINED	NON-WADEABLE/MID-DEPTH D.O. METER- DID NOT ALLOW IT TO WARM UP FOR 20 MIN (15 MIN).
L050	LITTLE RIVER-L050-VRMP	6/1/2013	6:44 AM	N	BASE FLOW	MED	18.33	CULVERT	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
L050	LITTLE RIVER-L050-VRMP	6/15/2013	6:34 AM	N	BASE FLOW	LOW	11.9	CULVERT	CLEAR	CALM	SHOWERS	CASCADE		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
L050	LITTLE RIVER-L050-VRMP	6/29/2013	6:30 AM	N	STORM FLOW	MED	18.3	CULVERT	FOGGY, LIGHT RAIN	CALM	FOGGY, HEAVY RAIN, LIGHT RAIN	RUN		TURBID	NON-WADEABLE/3 FT BELOW SURFACE BACTERIA DUPLICATE IS FIELD DUPLICATE.
L050	LITTLE RIVER-L050-VRMP	6/29/2013	6:30 AM	D				CULVERT							NON-WADEABLE/3 FT BELOW SURFACE BACTERIA DUPLICATE IS FIELD DUPLICATE.
L050	LITTLE RIVER-L050-VRMP	7/13/2013	6:33 AM	N	BASE FLOW	LOW	19.8	CULVERT	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
L050	LITTLE RIVER-L050-VRMP	7/27/2013	6:45 AM	N	BASE FLOW	LOW	U<	CULVERT	CLEAR	CALM	LIGHT RAIN, MOSTLY CLOUDY, SHOWERS	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
L050	LITTLE RIVER-L050-VRMP	7/27/2013	6:45 AM	D				CULVERT							NON-WADEABLE/MID-DEPTH
L050	LITTLE RIVER-L050-VRMP	8/10/2013	6:35 AM	N	STORM FLOW	MED	22.5	CULVERT	CLEAR, PARTLY CLOUDY	CALM	HEAVY RAIN, SHOWERS	RUN		DARKLY STAINED	NON-WADEABLE/MID-DEPTH
L050	LITTLE RIVER-L050-VRMP	8/24/2013	7:02 AM	N	BASE FLOW	LOW	11.11	WADING		CALM	CLEAR	RIFFLE		TURBID	WADEABLE/MID-DEPTH
M010	MILL BROOK - RML01 - VRMP	5/18/2013	6:55 AM	N	BASE FLOW	LOW	7.222	WADING	CLEAR	CALM	CLEAR, PARTLY CLOUDY	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
M010	MILL BROOK - RML01 - VRMP	6/1/2013	7:45 AM	N	BASE FLOW	MED		WADING	CLEAR	CALM	CLEAR	RIFFLE		MEDIUM STAINED	WADEABLE/MID-DEPTH
M010	MILL BROOK - RML01 - VRMP	6/15/2013	8:20 AM	N	BASE FLOW	MED	11.11	WADING	CLEAR	BREEZE	CLEAR	RIFFLE		MEDIUM STAINED	WADEABLE/MID-DEPTH
M010	MILL BROOK - RML01 - VRMP	6/29/2013	8:30 AM	N	STORM FLOW	HIGH	21	BRIDGE	FOGGY	CALM	FOGGY, HEAVY RAIN, LIGHT RAIN	RIFFLE		TURBID	NON-WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
M010	MILL BROOK - RML01 - VRMP	6/29/2013	8:30 AM	D				BRIDGE							NON-WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
M010	MILL BROOK - RML01 - VRMP	7/13/2013	7:30 AM	N	BASE FLOW	HIGH	14.44	WADING	CLEAR	CALM	CLEAR	RIFFLE		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
M010	MILL BROOK - RML01 - VRMP	7/27/2013	7:55 AM	N	BASE FLOW	MED	21.3	WADING	CLEAR	CALM	CLEAR, LIGHT RAIN, MOSTLY CLOUDY, SHOWERS	RIFFLE		MEDIUM STAINED	WADEABLE/MID-DEPTH
M010	MILL BROOK - RML01 - VRMP	8/10/2013	6:30 AM	N	STORM FLOW	MED	15.56	WADING	CLEAR	CALM	HEAVY RAIN	RUN		TURBID	CONCENTRATION IS ACTUALLY >2419.6. VALUE FOR USE IN GEOMETRIC MEAN. WADEABLE/MID-DEPTH, WADEABLE/MID-DEPTH
M010	MILL BROOK - RML01 - VRMP	8/24/2013	6:40 AM	N	BASE FLOW	MED	12.22	BANK	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". SHOULD BE BY WADING OR WITH EXTENSION POLE.
M030	MILL BROOK - RML63 - VRMP	5/18/2013	7:45 AM	N	BASE FLOW	LOW	12.78	WADING	CLEAR		PARTLY CLOUDY	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
M030	MILL BROOK - RML63 - VRMP	6/1/2013	7:35 AM	N	BASE FLOW	MED	19.44	WADING	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	WADEABLE/MID-DEPTH D.O. METER-DID NOT ALLOW IT TO WARM UP 20 MINUTES.
M030	MILL BROOK - RML63 - VRMP	6/15/2013	7:25 AM	N	BASE FLOW	MED	12.78	WADING	CLEAR	BREEZE	CLEAR, MOSTLY CLOUDY, PARTLY CLOUDY, SHOWERS	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
M030	MILL BROOK - RML63 - VRMP	7/13/2013	7:20 AM	N	BASE FLOW	LOW		WADING	CLEAR		CLEAR	RIFFLE		CLEAR	SAMPLED DOWNSTREAM FROM M030 WHICH IS INACCESSIBLE DUE TO DAM RECONSTRUCTION WADEABLE/MID-DEPTH D.O. METER- DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20 MINUTES.
M030	MILL BROOK - RML63 - VRMP	7/27/2013	7:00 AM	N	BASE FLOW	LOW		WADING	CLEAR, PARTLY CLOUDY		MOSTLY CLOUDY	RIFFLE		CLEAR	PAST 48 HOURS HEAVY RAIN: SAMPLED DOWNSTREAM OF M030 DUE TO DAM RECONSTRUCTION WADEABLE/MID-DEPTH D.O. METER TIME OF CALIBRATION WAS NOT RECORDED. NOT SURE IF METER ALLOWED TO WARM UP FOR AT LEAST 20 MINUTES.
M030	MILL BROOK - RML63 - VRMP	8/10/2013	7:30 AM	N	BASE FLOW	MED	17.22	WADING	CLEAR	CALM	CLOUDY, HEAVY RAIN, LIGHT RAIN, MOSTLY CLOUDY	RIFFLE		CLEAR	SAMPLE SITE IS BELOW M030 DUE TO DAM RECONSTRUCTION WADEABLE/MID-DEPTH D.O. METER-DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20 MINUTES.
M030	MILL BROOK - RML63 - VRMP	8/24/2013	7:20 AM	N	BASE FLOW	LOW		WADING	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	SAMPLE SITE IS BELOW M030 DUE TO CONSTRUCTION. YSI TOOK A LONG TIME TO WARM UP. NO DO SAMPLES TODAY WADEABLE/MID-DEPTH
N010	NASON BROOK - RNS11 - VRMP	5/18/2013	6:30 AM	N	BASE FLOW	LOW	4.444	BANK	CLEAR, FOGGY	CALM	CLEAR	RUN		TURBID	WADEABLE/MID-DEPTH
N010	NASON BROOK - RNS11 - VRMP	6/1/2013	6:38 AM	N	BASE FLOW	LOW	17.78	WADING	CLEAR, FOGGY		CLEAR	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
N010	NASON BROOK - RNS11 - VRMP	6/15/2013	6:15 AM	N	BASE FLOW	LOW	11.67	CULVERT	CLEAR, FOGGY	CALM	CLEAR, PARTLY CLOUDY	RUN		TURBID	WADEABLE/MID-DEPTH
N010	NASON BROOK - RNS11 - VRMP	6/29/2013	6:35 AM	N	STORM FLOW	HIGH	17.22	BANK	FOGGY	CALM	SHOWERS	RUN		TURBID	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". SHOULD BE BY WADING OR EXTENSION POLE. BACTERIA DUPLICATE IS FIELD DUPLICATE.
N010	NASON BROOK - RNS11 - VRMP	6/29/2013	6:35 AM	D				BANK							WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". SHOULD BE BY WADING OR EXTENSION POLE. BACTERIA DUPLICATE IS FIELD DUPLICATE.
N010	NASON BROOK - RNS11 - VRMP	7/13/2013	6:19 AM	N	BASE FLOW	LOW	16.67	WADING	CLEAR, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
N010	NASON BROOK - RNS11 - VRMP	7/27/2013	6:40 AM	N	BASE FLOW	MED	14.44	BANK	CLEAR	CALM	HEAVY RAIN	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". SHOULD BE BY WADING OR WITH EXTENSION POLE.

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
N010	NASON BROOK - RNS11 - VRMP	8/10/2013	7:00 AM	N	STORM FLOW	HIGH	17.22	CULVERT	CLEAR	CALM	HEAVY RAIN, LIGHT RAIN, SHOWERS	RUN		TURBID	NON-WADEABLE/MID-DEPTH
N010	NASON BROOK - RNS11 - VRMP	8/24/2013	6:58 AM	N	BASE FLOW	LOW	10.56	WADING	CLEAR	CALM	CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
OB010	OTTER BROOK - ROT06 - VRMP	5/18/2013	5:26 AM	N	BASE FLOW	MED	4.444	WADING	CLEAR, FOGGY		CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
OB010	OTTER BROOK - ROT06 - VRMP	6/1/2013	5:38 AM	N	BASE FLOW	MED	17.78	CULVERT	CLEAR, FOGGY		CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
OB010	OTTER BROOK - ROT06 - VRMP	6/15/2013	5:15 AM	N	BASE FLOW	HIGH	11.67	CULVERT	CLEAR, FOGGY	CALM	CLEAR, PARTLY CLOUDY	RUN		CLEAR	GROUND FOG WADEABLE/MID-DEPTH
OB010	OTTER BROOK - ROT06 - VRMP	6/29/2013	5:13 AM	N	BASE FLOW	HIGH	17.22	CULVERT	FOGGY	CALM	SHOWERS	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH
OB010	OTTER BROOK - ROT06 - VRMP	7/13/2013	5:16 AM	N	BASE FLOW	MED	16.67	CULVERT	CLEAR, PARTLY CLOUDY		CLEAR, PARTLY CLOUDY	RUN		CLEAR	WADEABLE/MID-DEPTH
OB010	OTTER BROOK - ROT06 - VRMP	7/27/2013	5:38 AM	N	BASE FLOW	MED	14.44	CULVERT	CLEAR	CALM	HEAVY RAIN	RUN		CLEAR	WADEABLE/MID-DEPTH
OB010	OTTER BROOK - ROT06 - VRMP	8/10/2013	5:47 AM	N	BASE FLOW	HIGH	17.22	CULVERT	CLEAR	CALM	HEAVY RAIN, LIGHT RAIN, SHOWERS	RUN		CLEAR	WADEABLE/MID-DEPTH
OB010	OTTER BROOK - ROT06 - VRMP	8/24/2013	5:54 AM	N			10.56	CULVERT			CLEAR				WADEABLE/MID-DEPTH
OB010	OTTER BROOK - ROT06 - VRMP	8/24/2013	5:54 AM	D				CULVERT							WADEABLE/MID-DEPTH
PI020	PISCATAQUA RIVER - RPS12 - VRMP	5/18/2013	6:45 AM	N	BASE FLOW	LOW	12.78	WADING	CLEAR		PARTLY CLOUDY	RIFFLE		CLEAR	WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
PI020	PISCATAQUA RIVER - RPS12 - VRMP	5/18/2013	6:45 AM	D				WADING							WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
PI020	PISCATAQUA RIVER - RPS12 - VRMP	6/1/2013	6:45 AM	N	BASE FLOW	MED	19.44	WADING	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	WADEABLE/MID-DEPTH D.O. METER- DID NOT ALLOW IT TO WARM UP FOR 20 MINUTES.
PI020	PISCATAQUA RIVER - RPS12 - VRMP	6/1/2013	6:45 AM	D				WADING							WADEABLE/MID-DEPTH D.O. METER- DID NOT ALLOW IT TO WARM UP FOR 20 MINUTES.
PI020	PISCATAQUA RIVER - RPS12 - VRMP	6/15/2013	6:45 AM	N	BASE FLOW	MED	12.78	WADING	CLEAR	BREEZE	CLEAR, MOSTLY CLOUDY, PARTLY CLOUDY, SHOWERS	RIFFLE		CLEAR	WADEABLE/MID-DEPTH SPECIFIC CONDUCTANCE READING NOT ENTERED-DATASHEET DIFFICULT TO READ.
PI020	PISCATAQUA RIVER - RPS12 - VRMP	6/15/2013	6:45 AM	D				WADING							WADEABLE/MID-DEPTH SPECIFIC CONDUCTANCE READING NOT ENTERED-DATASHEET DIFFICULT TO READ.
PI020	PISCATAQUA RIVER - RPS12 - VRMP	6/29/2013	6:35 AM	N	STORM FLOW	HIGH		WADING	CLOUDY		HEAVY RAIN	RUN		DARKLY STAINED	WADEABLE/MID-DEPTH D.O. METER- DID NOT ALLOW IT TO WARM UP AT LEAST 20 MINUTES.
PI020	PISCATAQUA RIVER - RPS12 - VRMP	7/13/2013	6:45 AM	N	BASE FLOW	LOW		WADING	CLEAR		CLEAR	RIFFLE		CLEAR	WADEABLE/MID-DEPTH D.O. METER-DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20 MINUTES.
PI020	PISCATAQUA RIVER - RPS12 - VRMP	7/27/2013	6:30 AM	N	BASE FLOW	LOW		WADING	CLEAR, PARTLY CLOUDY		MOSTLY CLOUDY	RIFFLE		CLEAR	48 HOURS AGO HEAVY RAIN WADEABLE/MID-DEPTH D.O METER-TIME OF CALIBRATION WAS NOT RECORDED. NOT SURE IF METER ALLOWED TO WARM UP FOR AT LEAST 20 MINUTES.

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
PI020	PISCATAQUA RIVER - RPS12 - VRMP	8/10/2013	7:05 AM	N	STORM FLOW	HIGH	17.22	WADING	CLEAR	CALM	CLOUDY, HEAVY RAIN, LIGHT RAIN, MOSTLY CLOUDY	RIFFLE		TURBID	CONCENTRATION IS ACTUALLY >2419.6. VALUE FOR USE IN GEOMETRIC MEAN. WADEABLE/MID-DEPTH D.O. METER-DID NOT ALLOW IT TO WARM UP AT LEAST 20 MINUTES., WADEABLE/MID-DEPTH D.O. METER-DID NOT ALLOW IT TO WARM UP AT LEAST 20 MINUTES.
PI020	PISCATAQUA RIVER - RPS12 - VRMP	8/24/2013	6:35 AM	N	BASE FLOW	LOW		WADING	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	YSI TOOK A LONG TIME TO WARM UP. NO DO SAMPLES TODAY WADEABLE/MID-DEPTH
PL010	PLEASANT RIVER - RPL06 - VRMP	6/15/2013	6:45 AM	N	BASE FLOW	HIGH	11.67	BRIDGE	CLEAR	CALM	HEAVY RAIN, SHOWERS	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
PL010	PLEASANT RIVER - RPL06 - VRMP	6/29/2013	7:00 AM	N	STORM FLOW	MED	15.56	BRIDGE	CLOUDY, FOGGY	CALM	CLOUDY, FOGGY, LIGHT RAIN	RUN		TURBID	NON-WADEABLE/3 FT BELOW SURFACE
PL010	PLEASANT RIVER - RPL06 - VRMP	7/13/2013	7:35 AM	N	STORM FLOW	HIGH		BRIDGE	CLEAR	CALM	CLEAR	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
PL010	PLEASANT RIVER - RPL06 - VRMP	7/27/2013	6:40 AM	N	BASE FLOW	MED	17.22	BRIDGE	CLEAR	CALM	CLOUDY, LIGHT RAIN, SHOWERS	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
PL010	PLEASANT RIVER - RPL06 - VRMP	8/10/2013	7:00 AM	N	STORM FLOW	MED	15.56	BRIDGE	CLEAR	CALM	HEAVY RAIN	RUN		TURBID	CONCENTRATION IS ACTUALLY >2419.6. VALUE FOR USE IN GEOMETRIC MEAN. WADEABLE/1.5 FT BELOW SURFACE, WADEABLE/1.5 FT BELOW SURFACE
PL020	PLEASANT RIVER - RPL29 - VRMP	5/18/2013	7:07 AM	N	BASE FLOW	MED	7.778	WADING	CLEAR	CALM	PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
PL020	PLEASANT RIVER - RPL29 - VRMP	6/1/2013	6:50 AM	N	BASE FLOW	MED		BANK	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". SHOULD BE BY WADING OR EXTENSION POLE.
PL020	PLEASANT RIVER - RPL29 - VRMP	6/15/2013	7:10 AM	N	BASE FLOW	MED		BANK	CLEAR	CALM	CLEAR, CLOUDY, SHOWERS	RUN		CLEAR	NON-WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". SHOULD BE BY WADING OR EXTENSION POLE.
PL020	PLEASANT RIVER - RPL29 - VRMP	6/29/2013	7:40 AM	N	STORM FLOW	HIGH		WADING	CLOUDY, LIGHT RAIN		CLOUDY, FOGGY, LIGHT RAIN	RUN		CLEAR	WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
PL020	PLEASANT RIVER - RPL29 - VRMP	6/29/2013	7:40 AM	D				WADING							WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
PL020	PLEASANT RIVER - RPL29 - VRMP	7/13/2013	6:40 AM	N	BASE FLOW	MED		WADING	CLEAR		CLEAR, PARTLY CLOUDY	RUN		CLEAR	LANCE GURNEY TRANSPORTED SAMPLES TO LAB FOR ABE WADEABLE/MID-DEPTH
PL020	PLEASANT RIVER - RPL29 - VRMP	7/13/2013	6:40 AM	D				WADING							LANCE GURNEY TRANSPORTED SAMPLES TO LAB FOR ABE WADEABLE/MID-DEPTH
PL020	PLEASANT RIVER - RPL29 - VRMP	7/27/2013	6:45 AM	N	BASE FLOW	MED		WADING	CLEAR		CLOUDY, LIGHT RAIN, SHOWERS	RUN		CLEAR	WADEABLE/MID-DEPTH
PL020	PLEASANT RIVER - RPL29 - VRMP	8/10/2013	7:21 AM	N	STORM FLOW	HIGH		WADING	CLEAR, FOGGY	CALM	FOGGY, LIGHT RAIN, MOSTLY CLOUDY, SHOWERS	RUN		TURBID	CONCENTRATION IS ACTUALLY >2419.6. VALUE FOR USE IN GEOMETRIC MEAN. WADEABLE/MID-DEPTH, WADEABLE/MID-DEPTH
PL020	PLEASANT RIVER - RPL29 - VRMP	8/24/2013	7:21 AM	N	BASE FLOW	LOW		WADING	CLEAR	CALM	CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
PL040	PLEASANT RIVER - RPL47 - VRMP	5/18/2013	5:47 AM	N	BASE FLOW	MED	4.444	WADING	CLEAR, FOGGY	CALM	CLEAR	RUN		TURBID	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
PL040	PLEASANT RIVER - RPL47 - VRMP	6/1/2013	5:59 AM	N	BASE FLOW	MED	17.78	WADING	CLEAR, FOGGY		CLEAR	RUN		TURBID	WADEABLE/MID-DEPTH
PL040	PLEASANT RIVER - RPL47 - VRMP	6/15/2013	5:32 AM	N	BASE FLOW	HIGH	11.67	BANK	CLEAR, FOGGY	CALM	CLEAR, PARTLY CLOUDY	RUN		TURBID	GROUND FOG WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". SHOULD BE BY WADING OR EXTENSION POLE.
PL040	PLEASANT RIVER - RPL47 - VRMP	6/29/2013	5:30 AM	N	STORM FLOW	HIGH	17.22	BANK	FOGGY	CALM	SHOWERS	RUN		TURBID	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". SHOULD BY WADING OR EXTENSION POLE.
PL040	PLEASANT RIVER - RPL47 - VRMP	7/13/2013	5:35 AM	N	BASE FLOW	LOW	16.67	BANK	CLEAR, PARTLY CLOUDY		CLEAR, PARTLY CLOUDY	RUN		MEDIUM STAINED	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". SHOULD BE BY WADING OR EXTENSION POLE.
PL040	PLEASANT RIVER - RPL47 - VRMP	7/27/2013	5:58 AM	N	BASE FLOW	MED	14.44	BANK	CLEAR	CALM	HEAVY RAIN	RUN		DARKLY STAINED	WADEABLE/1.5 FT BELOW SURFACE SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW. SHOULD BE BY WADING OR WITH EXTENSION POLE.
PL040	PLEASANT RIVER - RPL47 - VRMP	8/10/2013	6:05 AM	N	STORM FLOW	HIGH	17.22	WADING	CLEAR	CALM	HEAVY RAIN, LIGHT RAIN, SHOWERS	RUN		TURBID	CONCENTRATION IS ACTUALLY >2419.6. VALUE FOR USE IN GEOMETRIC MEAN. WADEABLE/MID-DEPTH, WADEABLE/MID-DEPTH
PL040	PLEASANT RIVER - RPL47 - VRMP	8/24/2013	6:11 AM	N	BASE FLOW	MED	10.56	BANK			CLEAR	RUN		TURBID	WADEABLE/MID-DEPTH
P110	PRESUMPCOT RIVER - R133 - VRMP	6/15/2013	6:35 AM	N	BASE FLOW	HIGH	11.67	BRIDGE	CLEAR	CALM	HEAVY RAIN, SHOWERS	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
P110	PRESUMPCOT RIVER - R133 - VRMP	6/29/2013	7:20 AM	N	STORM FLOW	MED	15.56	BRIDGE	CLOUDY, FOGGY	CALM	CLOUDY, FOGGY, LIGHT RAIN	RUN			NON-WADEABLE/3 FT BELOW SURFACE
P110	PRESUMPCOT RIVER - R133 - VRMP	7/13/2013	6:35 AM	N	STORM FLOW	HIGH		BRIDGE	CLEAR	CALM	CLEAR	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
P110	PRESUMPCOT RIVER - R133 - VRMP	7/27/2013	6:21 AM	N	BASE FLOW	MED	17.22	BRIDGE	CLEAR	CALM	CLOUDY, LIGHT RAIN, SHOWERS	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
P110	PRESUMPCOT RIVER - R133 - VRMP	8/10/2013	7:15 AM	N	STORM FLOW	MED	15.56	BRIDGE	CLEAR	CALM	HEAVY RAIN	RUN		MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
P200	PRESUMPCOT RIVER - R225 - VRMP	5/18/2013	7:35 AM	N	BASE FLOW	MED	7.778	WADING	CLEAR	CALM	PARTLY CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
P200	PRESUMPCOT RIVER - R225 - VRMP	6/1/2013	7:15 AM	N	BASE FLOW	MED		WADING	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
P200	PRESUMPCOT RIVER - R225 - VRMP	6/15/2013	7:33 AM	N	BASE FLOW	MED	11.67	WADING	CLEAR	CALM	HEAVY RAIN, SHOWERS	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
P200	PRESUMPCOT RIVER - R225 - VRMP	6/29/2013	7:05 AM	N	STORM FLOW	HIGH		BANK	CLOUDY, FOGGY		CLOUDY, FOGGY, LIGHT RAIN	RUN		CLEAR	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT 'CENTER OF FLOW". SHOULD BE WADING.
P200	PRESUMPCOT RIVER - R225 - VRMP	7/13/2013	7:10 AM	N	STORM FLOW	HIGH		WADING	CLEAR	CALM	CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
P200	PRESUMPCOT RIVER - R225 - VRMP	7/27/2013	7:05 AM	N	BASE FLOW	HIGH	17.22	WADING	CLEAR	CALM	CLOUDY, LIGHT RAIN, SHOWERS	RIFFLE		CLEAR	WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
P200	PRESUMPCOT RIVER - R225 - VRMP	7/27/2013	7:05 AM	D				WADING							WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.

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
P200	PRESUMPCOT RIVER - R225 - VRMP	8/10/2013	7:00 AM	N	BASE FLOW	MED		BANK	CLEAR, FOGGY	CALM	FOGGY, LIGHT RAIN, MOSTLY CLOUDY, SHOWERS	RUN		CLEAR	NON-WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW. SHOULD BE BY WADING.
P200	PRESUMPCOT RIVER - R225 - VRMP	8/10/2013	7:00 AM	D				BANK							NON-WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW. SHOULD BE BY WADING.
P200	PRESUMPCOT RIVER - R225 - VRMP	8/24/2013	6:58 AM	N	BASE FLOW	MED		BANK	CLEAR	CALM	CLEAR	RUN		CLEAR	NON-WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW". SHOULD BE BY WADING.
P020	PRESUMPCOT RIVER - R24 - VRMP	5/18/2013	6:15 AM	N	BASE FLOW	LOW	7.222	BRIDGE	CLEAR	CALM	CLEAR, PARTLY CLOUDY	RUN		MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
P020	PRESUMPCOT RIVER - R24 - VRMP	6/1/2013	7:00 AM	N	BASE FLOW	MED		BRIDGE	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
P020	PRESUMPCOT RIVER - R24 - VRMP	6/15/2013	7:40 AM	N	STORM FLOW	HIGH	11.11	BRIDGE	CLEAR	BREEZE	CLEAR	RUN		TURBID	NON-WADEABLE/MID-DEPTH
P020	PRESUMPCOT RIVER - R24 - VRMP	6/29/2013	7:30 AM	N	STORM FLOW	HIGH	21	BRIDGE	FOGGY	CALM	FOGGY, HEAVY RAIN, LIGHT RAIN	RUN		TURBID	NON-WADEABLE/MID-DEPTH
P020	PRESUMPCOT RIVER - R24 - VRMP	7/13/2013	6:50 AM	N	BASE FLOW	HIGH	14.44	BRIDGE	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
P020	PRESUMPCOT RIVER - R24 - VRMP	7/27/2013	7:20 AM	N	BASE FLOW	MED	21.3	BRIDGE	CLEAR	CALM	CLEAR, LIGHT RAIN, MOSTLY CLOUDY, SHOWERS	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
P020	PRESUMPCOT RIVER - R24 - VRMP	8/24/2013	6:10 AM	N	BASE FLOW	MED	12.22	BRIDGE	CLEAR	CALM	CLEAR	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
P030	PRESUMPCOT RIVER - R47 - VRMP	5/18/2013	6:35 AM	N	BASE FLOW	LOW	7.222	BRIDGE	CLEAR	CALM	CLEAR, PARTLY CLOUDY	RUN		MEDIUM STAINED	NON-WADEABLE/3 FT BELOW SURFACE
P030	PRESUMPCOT RIVER - R47 - VRMP	6/1/2013	7:30 AM	N	BASE FLOW	MED		BRIDGE	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
P030	PRESUMPCOT RIVER - R47 - VRMP	6/15/2013	8:05 AM	N	STORM FLOW	HIGH	11.11	BRIDGE	CLEAR	BREEZE	CLEAR	RUN		TURBID	NON-WADEABLE/MID-DEPTH
P030	PRESUMPCOT RIVER - R47 - VRMP	6/15/2013	8:05 AM	D				BRIDGE							NON-WADEABLE/MID-DEPTH
P030	PRESUMPCOT RIVER - R47 - VRMP	6/29/2013	8:10 AM	N	STORM FLOW	HIGH	21	BRIDGE	FOGGY	CALM	FOGGY, HEAVY RAIN, LIGHT RAIN	RUN		TURBID	NON-WADEABLE/MID-DEPTH
P030	PRESUMPCOT RIVER - R47 - VRMP	6/29/2013	8:10 AM	D				BRIDGE							NON-WADEABLE/MID-DEPTH
P030	PRESUMPCOT RIVER - R47 - VRMP	7/13/2013	7:10 AM	N	BASE FLOW	HIGH	14.44	BRIDGE	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
P030	PRESUMPCOT RIVER - R47 - VRMP	7/27/2013	7:40 AM	N	BASE FLOW	MED	21.3	BRIDGE	CLEAR	CALM	CLEAR, LIGHT RAIN, MOSTLY CLOUDY, SHOWERS	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
P030	PRESUMPCOT RIVER - R47 - VRMP	8/10/2013	6:15 AM	N	STORM FLOW	MED	15.56	BRIDGE	CLEAR	CALM	HEAVY RAIN	RUN		DARKLY STAINED	WADEABLE/1.5 FT BELOW SURFACE
P030	PRESUMPCOT RIVER - R47 - VRMP	8/24/2013	6:25 AM	N	BASE FLOW	MED	12.22	BRIDGE	CLEAR	CALM	CLEAR	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
TA010	TANNERY BROOK - RLTTN06 - VRMP	5/18/2013	6:35 AM	N	BASE FLOW	LOW	5.556	WADING	CLEAR	CALM	PARTLY CLOUDY	RIFFLE		CLEAR	WADEABLE/MID-DEPTH D.O. METER- DID NOT ALLOW IT TO WARM UP FOR 20 MIN (15 MIN).
TA010	TANNERY BROOK - RLTTN06 - VRMP	6/1/2013	7:25 AM	N	BASE FLOW	LOW	18.33	WADING	CLEAR		CLEAR	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
TA010	TANNERY BROOK - RLTTN06 - VRMP	6/15/2013	7:15 AM	N	BASE FLOW	LOW	11.9	WADING	CLEAR	CALM	SHOWERS	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
TA010	TANNERY BROOK - RLTTN06 - VRMP	6/15/2013	7:15 AM	D				WADING							WADEABLE/MID-DEPTH
TA010	TANNERY BROOK - RLTTN06 - VRMP	6/29/2013	7:25 AM	N	STORM FLOW	MED	18.3	WADING	FOGGY, LIGHT RAIN		FOGGY, HEAVY RAIN, LIGHT RAIN	RUN		TURBID	WADEABLE/MID-DEPTH
TA010	TANNERY BROOK - RLTTN06 - VRMP	7/13/2013	7:22 AM	N	BASE FLOW	LOW	19.8	BANK	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW. SHOULD BE BY WADING OR EXTENSION POLE.
TA010	TANNERY BROOK - RLTTN06 - VRMP	7/27/2013	7:30 AM	N	BASE FLOW	LOW	19.1	BANK	CLEAR	CALM	LIGHT RAIN, MOSTLY CLOUDY, SHOWERS	RIFFLE		CLEAR	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM AND NOT "CENTER OF FLOW. SHOULD BE BY WADING OR WITH EXTENSION POLE.
TA010	TANNERY BROOK - RLTTN06 - VRMP	8/10/2013	7:15 AM	N	STORM FLOW	MED	22.5	WADING	CLEAR, PARTLY CLOUDY	CALM	HEAVY RAIN, SHOWERS	RIFFLE		TURBID	NON-WADEABLE/MID-DEPTH
TA010	TANNERY BROOK - RLTTN06 - VRMP	8/24/2013	6:42 AM	N	BASE FLOW	LOW	11.11	WADING		CALM	CLEAR	RIFFLE		CLEAR	WADEABLE/MID-DEPTH

Presumpscot River, Presumpscot River Watch - Non-Approved Sites:

P135	PRESUMPCOT RIVER - R157 - PRW	6/15/2013	6:33 AM	N	BASE FLOW	MED	11.67	WADING	CLEAR, FOGGY	CALM	CLEAR, PARTLY CLOUDY	RUN		CLEAR	WADEABLE/MID-DEPTH
P135	PRESUMPCOT RIVER - R157 - PRW	6/29/2013	7:00 AM	N	STORM FLOW	HIGH	17.22	BANK	FOGGY	CALM	SHOWERS	RUN		CLEAR	WADEABLE/MID-DEPTH
P135	PRESUMPCOT RIVER - R157 - PRW	7/13/2013	6:37 AM	N	BASE FLOW	LOW	16.67	WADING	CLEAR, PARTLY CLOUDY	CALM	CLEAR, PARTLY CLOUDY	RUN		CLEAR	WADEABLE/MID-DEPTH
P135	PRESUMPCOT RIVER - R157 - PRW	7/27/2013	7:08 AM	N	BASE FLOW	MED	14.44	BANK	CLEAR	CALM	HEAVY RAIN	RUN		CLEAR	WADEABLE/MID-DEPTH
P135	PRESUMPCOT RIVER - R157 - PRW	8/10/2013	7:18 AM	N	STORM FLOW	HIGH	17.22	WADING	CLEAR	CALM	HEAVY RAIN, LIGHT RAIN, SHOWERS	RUN		TURBID	WADEABLE/MID-DEPTH
P135	PRESUMPCOT RIVER - R157 - PRW	8/24/2013	7:16 AM	N	BASE FLOW	LOW	10.56	WADING	CLEAR	CALM	CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH