## 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.<sup>1</sup>

- 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.

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

- 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. The view the report and appendices, to to this link: <<u>http://www.maine.gov/dep/water/monitoring/305b/index.htm</u>>.

#### **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.

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

**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).

**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	В
Douglas Brook-RLTNBDG20-VRMP	DG010	Douglas Brook	В
Little River-L050-VRMP	L050	Little River	В
Tannery Brook - RLTTN06 - VRMP	TA010	Queen Street	В
Mill Brook-RML63-VRMP	M030	Below Highland Lake	В
Mill Brook-RML01-VRMP	M010	Bridge Street	В
Presumpscot River-R47-VRMP	P030	Presumpscot River	с
Presumpscot River-R24-VRMP	P020	Blackstrap Road	с
Piscataqua River-RPS12-VRMP	PI020	Leighton Road	В
E. Branch Piscataqua River-RPSEB05-		-	
VRMP	PI010	Falmouth Road	В

# **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 (<u>http://www.wunderground.com</u>). 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 15<sup>th</sup> and June 29<sup>th</sup> 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 15<sup>th</sup> 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

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

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

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



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







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



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	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

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

#### Water Temperature

#### All Sample Sites:

Temperature was measured 5-8times 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 5-7-20: Graph of water temperature at sites on the lower Presumpscot tributaries.



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

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

#### 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 29<sup>th</sup> and August 10<sup>th</sup>, and to a lesser extent July 27<sup>th</sup>. 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 15<sup>th</sup> and September 30<sup>th</sup>, the number of *Escherichia coli* of human and domestic origin shall not exceed a geometric mean of 64/100 ml (milliliters) or an instantaneous level of 236/100 ml." Class C criteria are: "Between May 15<sup>th</sup> and September 30<sup>th</sup>, the number of *Escherichia coli* of human and domestic origin shall not exceed a geometric mean of 126/100 ml (milliliters) or an instantaneous level of 236/100 ml." Class C criteria are: "Between May 15<sup>th</sup> and September 30<sup>th</sup>, the number of *Escherichia coli* of human and domestic origin shall not exceed a geometric mean of 126/100 ml (milliliters) or an instantaneous level of 236/100 ml." 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  $29^{th}$  and July  $27^{th}$ . 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 5-7-22: Graph of E. coli (MPN/ml) at sites on the upper Presumpscot tributaries.







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





Figure 5-7-25: Graph of E. coli (MPN/mI) 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	E. coli	8	1.0	24.6	8.6
OB010	E. coli	8	95.8	1553.1	316.2
N010	E. coli	8	75.4	1046.2	230.6
BB010	E. coli	7	15.8	365.4	78.3
DB010	E. coli	8	21.6	86.2	39.2
PL040	E. coli	8	88.2	>2419.6	616.7
PL020	E. coli	8	52.0	>2419.6	341.3
PL010	E. coli	5	133.3	>2419.6	708.0
P135	E. coli	6	13.4	1299.7	110.1
BL010	E. coli	7	45.5	>2419.6	205.0
P110	E. coli	5	38.4	365.4	104.9
CW020	E. coli	8	65.0	>2419.6	277.0

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

**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.

## **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.

				**						**			Total		E Coli	Entero-
				Sample	*			**	**	Spec.		Turb-	Diss.	**	Bacteria	cocci
Organization				Туре	Sample	Depth	Water Temp	D.O.	D.O.	Cond.	Salinity	idity	Solids	TSS	(MPN/	(MPN/
Site Code	VRMP Site ID	Date	Time	Qualifier	Depth	Unit	(DEG C)	Sat. (%)	(MG/L)	(US/CM)	(PPTH)	(NTU)	(MG/L)	(MG/L)	100ML)	100ML)
Presumpscot	River, Presumpscot River Watch - Appr	oved 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	Ν			17.7	75.1	7.13	30						
BB010	BAKER BROOK - RPLBK17 - VRMP	7/13/2013	6:20 AM	Ν			19	90.3	8.39	40					48.7	
BB010	BAKER BROOK - RPLBK17 - VRMP	7/27/2013	6:25 AM	Ν			18.6	85.3	8.22	40					98.8	
BB010	BAKER BROOK - RPLBK17 - VRMP	8/10/2013	6:36 AM	Ν			18.2	83.4	7.85	40					235.9	
BB010	BAKER BROOK - RPLBK17 - VRMP	8/24/2013	6:36 AM	Ν			15.6	96.1	9.49	40					73.8	
BL010	BLACK BROOK- RBK05 -VRMP	5/18/2013	7:30 AM	Ν			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	Ν			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	
	COLLEY WRIGHT BROOK - RCW10 -															
CW010	VRMP	6/1/2013	7:10 AM	Ν			18.15	63.3	5.76	110					109.2	
	COLLEY WRIGHT BROOK - RCW10 -															
CW010	VRMP	6/15/2013	7:25 AM	Ν			14.38	54.4	5.37	131					121.1	
	COLLEY WRIGHT BROOK - RCW10 -															
CW010	VRMP	6/15/2013	7:25 AM	D			14.39	54.4	5.37	131						
	COLLEY WRIGHT BROOK - RCW10 -															
CW010	VRMP	6/29/2013	7:10 AM	Ν			16.4	95.3	9.22	80					1553.07	
	COLLEY WRIGHT BROOK - RCW10 -															
CW010	VRMP	7/13/2013	7:15 AM	Ν			18.6	79.8	7.54						648.8	
	COLLEY WRIGHT BROOK - RCW10 -															
CW010	VRMP	7/27/2013	7:10 AM	Ν			18.5	77.1	7.21	170					387.3	
	COLLEY WRIGHT BROOK - RCW10 -															
CW010	VRMP	8/10/2013	7:10 AM	N			18.4	88.1	8.24	170					1986.28	
	COLLEY WRIGHT BROOK - RCW10 -															
CW010	VRMP	8/24/2013	7:05 AM	N			19.6	62.2	5.7	190					115.3	

				**						**			Total		E Coli	Entero-
				Sample	*			**	**	Spec.		Turb-	Diss.	**	Bacteria	cocci
Organization				Туре	Sample	Depth	Water Temp	D.O.	D.O.	Cond.	Salinity	idity	Solids	TSS	(MPN/	(MPN/
Site Code	VRMP Site ID	Date	Time	Qualifier	Depth	Unit	(DEG C)	Sat. (%)	(MG/L)	(US/CM)	(PPTH)	(NTU)	(MG/L)	(MG/L)	100ML)	100ML)
	COLLEY WRIGHT BROOK - RCW10 -			_												
CW010	VRMP	8/24/2013	7:05 AM	D			19.6	62	5.7	190					186	
	COLLEY WRIGHT BROOK - RCW28 -	_ / /														
CW020	VRMP	5/18/2013	6:50 AM	N			11.13	65.3	6.9	105					65	
	COLLEY WRIGHT BROOK - RCW28 -															
CW020	VRMP	6/1/2013	6:55 AM	N			18.39	64.2	5.96	106					93.3	
	COLLEY WRIGHT BROOK - RCW28 -															
CW020	VRMP	6/15/2013	7:15 AM	N			15.05	51.5	4.98	150					133.3	
	COLLEY WRIGHT BROOK - RCW28 -															
CW020	VRMP	6/15/2013	7:15 AM	D											137.6	
	COLLEY WRIGHT BROOK - RCW28 -															
CW020	VRMP	6/29/2013	6:50 AM	N			16.4	94.9	9.18	90					727	
	COLLEY WRIGHT BROOK - RCW28 -															
CW020	VRMP	7/13/2013	7:00 AM	N			18.3	86	8.17						115.3	
	COLLEY WRIGHT BROOK - RCW28 -															
CW020	VRMP	7/27/2013	6:50 AM	N			17.9	83.2	7.9	170					290.9	
	COLLEY WRIGHT BROOK - RCW28 -															
CW020	VRMP	8/10/2013	6:50 AM	N			18.5	89.2	8.38	160					2419.17	
	COLLEY WRIGHT BROOK - RCW28 -															
CW020	VRMP	8/24/2013	6:50 AM	N			17.6	70.4	6.71	190					727	
	COLLEY WRIGHT BROOK - RCW28 -															
CW020	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	Ν			20.5	93.7	8.3						24	
DB010	DITCH BROOK - RPL00 - VRMP	7/27/2013	6:19 AM	Ν			19.9	92.7	8.8						41	
DB010	DITCH BROOK - RPL00 - VRMP	8/10/2013	6:28 AM	Ν			21.7	99.6	8.7	90					60.1	
DB010	DITCH BROOK - RPL00 - VRMP	8/24/2013	6:29 AM	Ν			18.3	92.6	8.6	130					21.6	
	DOUGLAS BROOK - RLTNBDG20 -															
DG010	VRMP	5/18/2013	7:35 AM	Ν			13.5	79.7	8.25	120					42.6	
	DOUGLAS BROOK - RLTNBDG20 -															
DG010	VRMP	6/1/2013	7:02 AM	Ν			18.7	81.5	7.56	100					146.7	
	DOUGLAS BROOK - RLTNBDG20 -															
DG010	VRMP	6/15/2013	6:54 AM	Ν			15.3	102.6	10.32	100					190.4	
	DOUGLAS BROOK - RLTNBDG20 -															
DG010	VRMP	6/29/2013	7:05 AM	Ν			16.3	83.6	8.08	46.8					332.5	
	DOUGLAS BROOK - RLTNBDG20 -															
DG010	VRMP	7/13/2013	6:59 AM	Ν			19.1	86.7	8.13	74.7					344.8	

				**						**			Total		E Coli	Entero-
				Sample	*			**	**	Spec.		Turb-	Diss.	**	Bacteria	cocci
Organization				Туре	Sample	Depth	Water Temp	D.O.	D.O.	Cond.	Salinity	idity	Solids	TSS	(MPN/	(MPN/
Site Code	VRMP Site ID	Date	Time	Qualifier	Depth	Unit	(DEG C)	Sat. (%)	(MG/L)	(US/CM)	(PPTH)	(NTU)	(MG/L)	(MG/L)	100ML)	100ML)
	DOUGLAS BROOK - RLTNBDG20 -															
DG010	VRMP	7/27/2013	7:10 AM	N			18.5	81.6	7.63	85					410.6	
	DOUGLAS BROOK - RLTNBDG20 -															
DG010	VRMP	8/10/2013	6:55 AM	N			18.6	90.4	8.39	64.4					2419.17	
	DOUGLAS BROOK - RLTNBDG20 -															
DG010	VRMP	8/24/2013	7:20 AM	N			17.6	64.3	6.18						123.6	
	EAST BRANCH PISCATAQUA RIVER -															
PI010	RPSEB05 - VRMP	5/18/2013	7:15 AM	N			13.5	81.6	8.45	159.3					27.8	
	EAST BRANCH PISCATAQUA RIVER -															
PI010	RPSEB05 - VRMP	6/1/2013	7:05 AM	Ν			19	81.4	7.54	126.4					816.4	
	EAST BRANCH PISCATAQUA RIVER -															
PI010	RPSEB05 - VRMP	6/15/2013	7:00 AM	Ν				98.5	8.66	115.5					131.3	
	EAST BRANCH PISCATAQUA RIVER -															
PI010	RPSEB05 - VRMP	6/29/2013	6:47 AM	Ν			16.1	84	8.25	110					1988.28	
	EAST BRANCH PISCATAQUA RIVER -															
PI010	RPSEB05 - VRMP	7/13/2013	7:00 AM	Ν			19.4	73	6.71	230					131.3	
	EAST BRANCH PISCATAQUA RIVER -															
PI010	RPSEB05 - VRMP	7/27/2013	6:40 AM	Ν			18.6	79.5	7.44	230					248.1	
	EAST BRANCH PISCATAQUA RIVER -															
PI010	RPSEB05 - VRMP	7/27/2013	6:40 AM	D											275.5	
	EAST BRANCH PISCATAQUA RIVER -															
PI010	RPSEB05 - VRMP	8/10/2013	7:15 AM	Ν			17.9	86.7	8.14	210					>2419.6	
	EAST BRANCH PISCATAQUA RIVER -															
PI010	RPSEB05 - VRMP	8/10/2013	7:15 AM	D											>2419.6	
	EAST BRANCH PISCATAQUA RIVER -															
PI010	RPSEB05 - VRMP	8/24/2013	7:10 AM	Ν						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	

				**						**			Total		E Coli	Entero-
				Sample	*			**	**	Spec.		Turb-	Diss.	**	Bacteria	cocci
Organization				Туре	Sample	Depth	Water Temp	D.O.	D.O.	Cond.	Salinity	idity	Solids	TSS	(MPN/	(MPN/
Site Code	VRMP Site ID	Date	Time	Qualifier	Depth	Unit	(DEG C)	Sat. (%)	(MG/L)	(US/CM)	(PPTH)	(NTU)	(MG/L)	(MG/L)	100ML)	100ML)
M010	MILL BROOK - RML01 - VRMP	7/13/2013	7:30 AM	Ν			20	83.1	7.71						193.5	
M010	MILL BROOK - RML01 - VRMP	7/27/2013	7:55 AM	Ν			19	85.2	7.93						387.3	
M010	MILL BROOK - RML01 - VRMP	8/10/2013	6:30 AM	Ν			18.6	92.8	8.72						>2419.6	
M010	MILL BROOK - RML01 - VRMP	8/24/2013	6:40 AM	Ν			20	85.1	7.61						228.2	
M030	MILL BROOK - RML63 - VRMP	5/18/2013	7:45 AM	Ν			16.6	93.3	8.97	47.9					39.3	
M030	MILL BROOK - RML63 - VRMP	6/1/2013	7:35 AM	Ν			21.5	89.7	7.92	46.7					74.4	
M030	MILL BROOK - RML63 - VRMP	6/15/2013	7:25 AM	Ν			19.7	84.7	8.11	45.8					61.3	
M030	MILL BROOK - RML63 - VRMP	7/13/2013	7:20 AM	Ν			24.1	83.7	7.02	80					24.3	
M030	MILL BROOK - RML63 - VRMP	7/27/2013	7:00 AM	Ν			21.8	87.6	7.69	80					37.3	
M030	MILL BROOK - RML63 - VRMP	8/10/2013	7:30 AM	Ν			21.3	77.8	8.11	90					85.7	
M030	MILL BROOK - RML63 - VRMP	8/24/2013	7:20 AM	Ν						90					71.7	
N010	NASON BROOK - RNS11 - VRMP	5/18/2013	6:30 AM	Ν			10.5	85.5	9.5	90					129.6	
N010	NASON BROOK - RNS11 - VRMP	6/1/2013	6:38 AM	Ν			16.2	82.7	8.1						75.4	
N010	NASON BROOK - RNS11 - VRMP	6/15/2013	6:15 AM	Ν			13.5	86.4	8.9	90					191.8	
N010	NASON BROOK - RNS11 - VRMP	6/29/2013	6:35 AM	Ν			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	Ν			16.7	89.6	8.6						172.2	
N010	NASON BROOK - RNS11 - VRMP	7/27/2013	6:40 AM	Ν			16.5	87	8.4						275.5	
N010	NASON BROOK - RNS11 - VRMP	8/10/2013	7:00 AM	Ν			17.4	88.6	8.4	80					1046.24	
N010	NASON BROOK - RNS11 - VRMP	8/24/2013	6:58 AM	Ν			14	78.1	8	110					93.3	
OB010	OTTER BROOK - ROT06 - VRMP	5/18/2013	5:26 AM	Ν			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	Ν			16.3	60.4	5.9						344.8	
OB010	OTTER BROOK - ROT06 - VRMP	8/10/2013	5:47 AM	Ν			17.8	29.8	2.8						1553.07	
OB010	OTTER BROOK - ROT06 - VRMP	8/24/2013	5:54 AM	Ν			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	Ν			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	Ν			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	

				**						**			Total		E Coli	Entero-
				Sample	*			**	**	Spec.		Turb-	Diss.	**	Bacteria	cocci
Organization				Туре	Sample	Depth	Water Temp	D.O.	D.O.	Cond.	Salinity	idity	Solids	TSS	(MPN/	(MPN/
Site Code	VRMP Site ID	Date	Time	Qualifier	Depth	Unit	(DEG C)	Sat. (%)	(MG/L)	(US/CM)	(PPTH)	(NTU)	(MG/L)	(MG/L)	100ML)	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			İ			770.1	
PL010	PLEASANT RIVER - RPL06 - VRMP	8/10/2013	7:00 AM	N			20.2	95.2	8.62			İ			>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			İ								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		İ			>2419.6	
PL020	PLEASANT RIVER - RPL29 - VRMP	8/24/2013	7:21 AM	N			18.6	93.1	8.74	180		İ			142.1	
PL040	PLEASANT RIVER - RPL47 - VRMP	5/18/2013	5:47 AM	N			13.3	83.6	8.7	170		İ			88.2	
PL040	PLEASANT RIVER - RPL47 - VRMP	6/1/2013	5:59 AM	N			19.3	85.4	7.4			İ			816.4	
PL040	PLEASANT RIVER - RPL47 - VRMP	6/15/2013	5:32 AM	N			15.8	82.6	8.1	170		İ			290.9	
PL040	PLEASANT RIVER - RPL47 - VRMP	6/29/2013	5:30 AM	N			16.8	89.8	8.7	160		İ			1732.87	
PL040	PLEASANT RIVER - RPL47 - VRMP	7/13/2013	5:35 AM	N			19.7	82.3	7.4			İ			461.1	
PL040	PLEASANT RIVER - RPL47 - VRMP	7/27/2013	5:58 AM	N			18.8	81	7.3			İ			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	PRESUMPSCOT RIVER - R133 - VRMP	6/15/2013	6:35 AM	N			18.6	94.7	8.88						38.4	
P110	PRESUMPSCOT RIVER - R133 - VRMP	6/29/2013	7:20 AM	N			20.2	97	8.78						365.4	
P110	PRESUMPSCOT RIVER - R133 - VRMP	7/13/2013	6:35 AM	N			23.7	90.8	7.64						57.3	
P110	PRESUMPSCOT RIVER - R133 - VRMP	7/27/2013	6:21 AM	N			23.7	91.3	7.42						67	

				**						**			Total		E Coli	Entero-
				Sample	*			**	**	Spec.		Turb-	Diss.	**	Bacteria	cocci
Organization	VPMP Site ID	Data	Timo	Type	Sample	Depth	Water Temp	D.O.	D.O.	Cond.	Salinity	idity (NTU)	Solids		(MPN/	(MPN/ 100MU)
Site Code		Date	Time	Quaimer	Deptil	Unit		Jal. (70)		(03/Civi)	(PPIN)		(IVIG/L)	(IVIG/L)	TOOIVIL)	TOOIVIL)
P110	PRESUMPSCOT RIVER - R133 - VRMP	8/10/2013	7:15 AM	N			22.3	93.3	8.09						235.9	
P200	PRESUMPSCOT RIVER - R225 - VRMP	5/18/2013	7:35 AM	N			13.8	98.3	10.15	60					1	
P200	PRESUMPSCOT RIVER - R225 - VRMP	6/1/2013	7:15 AM	N			16.5	101.4	9.87	50					7.4	
P200	PRESUMPSCOT RIVER - R225 - VRMP	6/15/2013	7:33 AM	N			17.4	96.4	9.14	50					6.3	
P200	PRESUMPSCOT RIVER - R225 - VRMP	6/29/2013	7:05 AM	N			18.4	96.8	9.15	50					7.4	
P200	PRESUMPSCOT RIVER - R225 - VRMP	7/13/2013	7:10 AM	N			23.5	94.4	7.74	50					24.6	
P200	PRESUMPSCOT RIVER - R225 - VRMP	7/27/2013	7:05 AM	N			22.8	98.9	8.55	60					8.5	
P200	PRESUMPSCOT RIVER - R225 - VRMP	7/27/2013	7:05 AM	D			22.8	98.6	8.56	60					9.6	
P200	PRESUMPSCOT RIVER - R225 - VRMP	8/10/2013	7:00 AM	N			21.9	88.2	7.75	60					23.8	
P200	PRESUMPSCOT RIVER - R225 - VRMP	8/10/2013	7:00 AM	D											17.3	
P200	PRESUMPSCOT RIVER - R225 - VRMP	8/24/2013	6:58 AM	N			22.8	93.3	7.89	50					17.3	
P020	PRESUMPSCOT RIVER - R24 - VRMP	5/18/2013	6:15 AM	N			15.9	85.1	8.35						72.3	
P020	PRESUMPSCOT RIVER - R24 - VRMP	6/1/2013	7:00 AM	N			18.2	88.7	8.37						57.6	
P020	PRESUMPSCOT RIVER - R24 - VRMP	6/15/2013	7:40 AM	N			17.6	8.95	8.55						88.6	
P020	PRESUMPSCOT RIVER - R24 - VRMP	6/29/2013	7:30 AM	N			19.8	99.5	9.05						1203.31	
P020	PRESUMPSCOT RIVER - R24 - VRMP	7/13/2013	6:50 AM	N			23.7	93.5	7.88						162.4	
P020	PRESUMPSCOT RIVER - R24 - VRMP	7/27/2013	7:20 AM	N			23	88.5	7.63						151.5	
P020	PRESUMPSCOT RIVER - R24 - VRMP	8/24/2013	6:10 AM	N			23.8	97.4	8.12						35	
P030	PRESUMPSCOT RIVER - R47 - VRMP	5/18/2013	6:35 AM	N			16.1	88.6	8.71						78	
P030	PRESUMPSCOT RIVER - R47 - VRMP	6/1/2013	7:30 AM	N			18.1	91.8	8.58						62.2	

				**						**			Total		E Coli	Entero-
				Sample	*			**	**	Spec.		Turb-	Diss.	**	Bacteria	cocci
Organization				Туре	Sample	Depth	Water Temp	D.O.	D.O.	Cond.	Salinity	idity	Solids	TSS	(MPN/	(MPN/
Site Code	VRMP Site ID	Date	Time	Qualifier	Depth	Unit	(DEG C)	Sat. (%)	(MG/L)	(US/CM)	(PPTH)	(NTU)	(MG/L)	(MG/L)	100ML)	100ML)
P030	PRESUMPSCOT RIVER - R47 - VRMP	6/15/2013	8:05 AM	N			17.8	91.2	8.66						81.6	
P030	PRESUMPSCOT RIVER - R47 - VRMP	6/15/2013	8:05 AM	D											93.3	
P030	PRESUMPSCOT RIVER - R47 - VRMP	6/29/2013	8:10 AM	N			19.8	100.5	9.18						1299.65	
5000		C /20 /2010														
P030	PRESUMPSCOT RIVER - R47 - VRMP	6/29/2013	8:10 AM	D											1203.31	
0020		7/12/2012	7.10 444	N .			22.0	02.7	7.05						177.2	
P030	PRESUMPSCUT RIVER - R47 - VRMP	//13/2013	7:10 AIVI	IN			23.9	93.7	7.95						172.3	
POSO	PRESUMPSCOT RIVER - R47 - VRMP	7/27/2013	7.40 AM	N			22.2	91.2	7 81						160.7	
1050		772772013	7.40 /101				25.2	51.2	7.01						100.7	
P030	PRESUMPSCOT RIVER - R47 - VRMP	8/10/2013	6:15 AM	N			22.5	100.1	8.66						1203.31	
		0,10,1010	01207.001						0.00						1200101	
P030	PRESUMPSCOT 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	
T.010		7/27/2012	7 20 444					07	0.07						02.2	
14010	TANNERY BROOK - RELINUS - VRMP	//2//2013	7:30 AM	N			17.4	8/	8.37	37.5					93.3	
TA010		0/10/2012	7.15	N			170	00.2	0 16	150					2410 17	
TAULU	TANNERT DROOK - RETTINGO - VRIVIP	0/10/2013	7.15 AIVI				17.8	09.3	0.40	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	PRESUMPSCOT RIVER - R157 - PRW	6/15/2013	6:33 AM	N		18.3	84.9	7.9	70			21.6
P135	PRESUMPSCOT RIVER - R157 - PRW	6/29/2013	7:00 AM	N		20.2	89.4	8.2	60			513.1
P135	PRESUMPSCOT RIVER - R157 - PRW	7/13/2013	6:37 AM	N		23.5	86.4	7.4				53.8
P135	PRESUMPSCOT RIVER - R157 - PRW	7/27/2013	7:08 AM	Ν		23.4	50.4	4.8			:	.43.9
P135	PRESUMPSCOT RIVER - R157 - PRW	8/10/2013	7:18 AM	N		22.3	88.3	7.6	70		12	9.65

Presumpscot River - Presumpscot River Watch

				**						**			Total		E Coli	Entero-
				Sample	*			**	**	Spec.		Turb-	Diss.	**	Bacteria	cocci
Organization				Туре	Sample	Depth	Water Temp	D.O.	D.O.	Cond.	Salinity	idity	Solids	TSS	(MPN/	(MPN/
Site Code	VRMP Site ID	Date	Time	Qualifier	Depth	Unit	(DEG C)	Sat. (%)	(MG/L)	(US/CM)	(PPTH)	(NTU)	(MG/L)	(MG/L)	100ML)	100ML)
P135	PRESUMPSCOT 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

				** Sample			Air								
Organization Site Code	VRMP Site ID	Date	Time	Type Qualifier	Flow	Stage	Temp (°C)	Sample Location	Current Weather	Air Condition	Past 24HR Weather	Habitat	Tide Stage	Water Appearance	Comments
Presumpscot	River, Presumpscot River Watch - App	proved Sites:		1	1	1						1	1		
					BASE						PARTIY			MEDIUM	
BB010	BAKER BROOK - RPLBK17 - VRMP	5/18/2013	6:40 AM	N	FLOW	MED	7.778	WADING	CLEAR	CALM	CLOUDY	RUN		STAINED	NON-WADEABLE/MID-DEPTH
					BASE									MEDIUM	
BB010	BAKER BROOK - RPLBK17 - VRMP	6/1/2013	6:30 AM	N	FLOW	MED		WADING	CLEAR	CALM	CLEAR	RUN		STAINED	NON-WADEABLE/MID-DEPTH
BB010	BAKER BROOK - RPLBK17 - VRMP	6/1/2013	6:30 AM	D				WADING			CLEAD				NON-WADEABLE/MID-DEPTH
					BASE						CLEAR,			MEDIUM	
BB010	BAKER BROOK - RPLBK17 - VRMP	6/15/2013	6:45 AM	N	FLOW	MED		WADING	CLEAR	CALM	SHOWERS	RUN		STAINED	WADEABLE/MID-DEPTH
											CLOUDY,				
											FOGGY,				
					STORM				CLOUDY,		LIGHT			MEDIUM	
BB010	BAKER BROOK - RPLBK17 - VRMP	6/29/2013	6:40 AM	N	FLOW	HIGH		WADING	FOGGY		RAIN	RIFFLE	<u> </u>	STAINED	NO E. COLI DATA, SAMPLE LABELS CONFUSED IN FIELD WADEABLE/MID-DEPTH
					BASE						DARTI Y			MEDILIM	
BB010	BAKER BROOK - RPLBK17 - VRMP	7/13/2013	6:20 AM	N	FLOW	MED		WADING	CLEAR		CLOUDY	RUN		STAINED	LANCE GURNEY TRANSPORTED SAMPLES TO LAB FOR ABE WADEABLE/MID-DEPTH
		, , ,							-		CLOUDY,	-		-	
											LIGHT				
					BASE						RAIN,			MEDIUM	
BB010	BAKER BROOK - RPLBK17 - VRMP	7/27/2013	6:25 AM	N	FLOW	MED		WADING	CLEAR		SHOWERS	RUN		STAINED	WADEABLE/MID-DEPTH
											FOGGY,				
											RAIN.				
											MOSTLY				
					BASE				CLEAR,		CLOUDY,			MEDIUM	
BB010	BAKER BROOK - RPLBK17 - VRMP	8/10/2013	6:36 AM	N	FLOW	MED		WADING	FOGGY	CALM	SHOWERS	RUN		STAINED	WADEABLE/MID-DEPTH
					BASE									MEDIUM	
88010	BAKER BROOK - RPLBK17 - VRMP	8/24/2013	6:36 AM	N	FLOW	LOW		WADING	CLEAR	CALM	CLEAR	RUN		STAINED	WADEABLE/MID-DEPTH
BL010	BLACK BROOK- RBK05 -VRMP	5/18/2013	7:30 AM	N	FLOW	LOW	8.889	WADING	CLEAR		CLEAR	RUN		CLEAR	WADFABLE/MID-DEPTH
					BASE										
BL010	BLACK BROOK- RBK05 -VRMP	6/1/2013	7:25 AM	N	FLOW	MED	20	WADING	CLEAR	CALM	CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
					BASE										
BL010	BLACK BROOK- RBK05 -VRMP	6/15/2013	7:45 AM	N	FLOW	MED	17.6	WADING	CLEAR	CALM	CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
					STORM				LIGHT						
BL010	BLACK BROOK- RBK05 -VRMP	6/29/2013	7:30 AM	N	FLOW	HIGH	20	WADING	RAIN			RUN		TURBID	NO E. COLI DATA. SAMPLE LABELS CONFUSED IN FIELD NON-WADEABLE/MID-DEPTH
					BASE							-		MEDIUM	
BL010	BLACK BROOK- RBK05 -VRMP	7/13/2013	7:25 AM	N	FLOW	MED	18.33	WADING	CLEAR		CLEAR	RUN		STAINED	WADEABLE/MID-DEPTH
											CLEAR,				
DI 010		7/27/2042	7 20 44		BASE				CLEAD		HEAVY			CLEAD	FOAM AT BLO10 IN MINOR RIFFLE DOWNSTREAM FROM SAMPLE LOCATION
BLUID	BLACK BROOK- RBK05 -VRMP	//2//2013	7:20 AIV	N	FLOW	INED	20	WADING	CLEAR	CALM		RUN		CLEAR	WADEABLE/MID-DEPTH
											FOGGY.				
					STORM				CLEAR,		HEAVY				CONCENTRATION IS ACTUALLY >2419.6. VALUE FOR USE IN GEOMETRIC MEAN.
BL010	BLACK BROOK- RBK05 -VRMP	8/10/2013	7:20 AM	N	FLOW	HIGH	17.78	WADING	FOGGY		RAIN	RUN		TURBID	WADEABLE/MID-DEPTH, WADEABLE/MID-DEPTH
					BASE										
BL010	BLACK BROOK- RBK05 -VRMP	8/24/2013	7:20 AM	N	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 -	6/1/2012	7.10 444	N	BASE	MED			CLEAR	CALM	CLEAR	DUN		TUPPID	
C11010		0/1/2015	7.10 AIV		1 10 10	INLD	0	UNADING	CLLAN	CALIVI	CLLAN	INOIN		TONDID	WADLADL/1.5 FI BLOW JUNFACL

Organization		Date	Time	** Sample Type Qualifier	Flow	Stage	Air Temp	Sample	Current	Air	Past 24HR Weather	Habitat	Tide	Water	Comments
Site code	VRIVIF SILE ID	Date	Time	Quaimer	TIOW	Jiage	( )	Location	weather	Condition	weather	Habitat	Juage	Appearance	Comments
c	COLLEY WRIGHT BROOK - RCW10 -				STORM										
CW010 \	VRMP	6/15/2013	7:25 AM	N	FLOW	HIGH	17.6	WADING	CLEAR	CALM	CLEAR	RUN		TURBID	WADEABLE/MID-DEPTH
C	COLLEY WRIGHT BROOK - RCW10 -														
CW010 V	VRMP	6/15/2013	7:25 AM	D				WADING							WADEABLE/MID-DEPTH
	COLLEY WRIGHT BROOK BOW10				STOPM				ICLOUDY,						
CW010	VRMP	6/29/2013	7.10 AM	N	FLOW	нібн	20	WADING	RAIN			RUN		TURBID	WADEABLE/1 5 FT BELOW SURFACE
(	COLLEY WRIGHT BROOK - RCW10 -				BASE										
CW010	VRMP	7/13/2013	7:15 AM	N	FLOW	MED	18.33	WADING	CLEAR		CLEAR	RUN		TURBID	WADEABLE/MID-DEPTH
											CLEAR,				
C	COLLEY WRIGHT BROOK - RCW10 -	= /== /== /=			BASE						HEAVY			-	
CW010 V	VRMP	7/27/2013	7:10 AM	N	FLOW	MED	20	WADING	CLEAR	CALM		RUN		TURBID	WADEABLE/1.5 FT BELOW SURFACE
											FOGGY				
c	COLLEY WRIGHT BROOK - RCW10 -				STORM				CLEAR,		HEAVY				WADEABLE/1.5 FT BELOW SURFACE SAMPLE FROM BANK AND NOT "CENTER OF FLOW".
CW010	VRMP	8/10/2013	7:10 AM	N	FLOW		17.78	BANK	FOGGY		RAIN	RUN		TURBID	SHOULD BE BY WADING OR WITH EXTENSION FLOW.
C	COLLEY WRIGHT BROOK - RCW10 -				BASE										
CW010 V	VRMP	8/24/2013	7:05 AM	N	FLOW	LOW	18.33	WADING	CLEAR	CALM	CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
CINICIA	COLLEY WRIGHT BROOK - RCW10 -	0/24/2042	7.05.444												
CW010		8/24/2013	7:05 AIVI		BASE			WADING							WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
CW020	VRMP	5/18/2013	6:50 AM	N	FLOW	LOW	8.889	WADING	CLEAR		CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
(	COLLEY WRIGHT BROOK - RCW28 -			1	BASE										
CW020	VRMP	6/1/2013	6:55 AM	N	FLOW	MED	20	WADING	CLEAR	CALM	CLEAR	RUN		TURBID	WADEABLE/1.5 FT BELOW SURFACE
c	COLLEY WRIGHT BROOK - RCW28 -				BASE										
CW020 V	VRMP	6/15/2013	7:15 AM	N	FLOW	MED	17.6	WADING	CLEAR	CALM	CLEAR	RUN		TURBID	WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
	COLLEY WRIGHT BROOK - RCW28 -	6/15/2012	7.15 AM												
	VRIVIP	0/15/2015	7.15 AlVI		-			WADING							WADEADLE/IVID-DEPTH BACTERIA DOPLICATE IS FIELD DOPLICATE.
(	COLLEY WRIGHT BROOK - RCW28 -				STORM				LIGHT						
CW020	VRMP	6/29/2013	6:50 AM	N	FLOW	HIGH	20	WADING	RAIN			RUN		TURBID	WADEABLE/1.5 FT BELOW SURFACE
C	COLLEY WRIGHT BROOK - RCW28 -				BASE										
CW020 V	VRMP	7/13/2013	7:00 AM	N	FLOW	MED	18.33	WADING	CLEAR		CLEAR	RUN	<u> </u>	TURBID	WADEABLE/MID-DEPTH
					DACE						CLEAR,				
CW020		7/27/2013	6·50 AM	N	FLOW	MED	20		CLEAR	CALM	ΠΕΑΥΥ	RUN		OPAOLIE	ωαρεαρίε/Μιρ-ρερτή
01020		1/21/2015	0.50744		12011		20			CALINI	CLOUDY.			OTAGOL	
											FOGGY,				
c	COLLEY WRIGHT BROOK - RCW28 -				STORM				CLEAR,		HEAVY				
CW020 V	VRMP	8/10/2013	6:50 AM	N	FLOW		17.78	WADING	FOGGY		RAIN	RUN		TURBID	WADEABLE/1.5 FT BELOW SURFACE
	COLLEY WRIGHT BROOK - RCW28 -	0/24/2012	6-E0 AM	N	BASE		10 22		CLEAD	CALM	CLEAR	DUN			
CW020 V	COLLEY WRIGHT BROOK - RCW28 -	0/24/2015	0.50 AlVI		FLOW	LOW	10.55	WADING	CLEAR	CALIVI	CLEAN	KUN		UPAQUE	
CW020	VRMP	8/24/2013	6:50 AM	D				WADING							WADEABLE/MID-DEPTH
					BASE				CLEAR,						
DB010 [	DITCH BROOK - RPL00 - VRMP	5/18/2013	6:06 AM	N	FLOW	LOW	4.444	WADING	FOGGY	CALM	CLEAR	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
					BASE				CLEAR,						
DB010 C	DITCH BROOK - RPLOO - VRMP	6/1/2013	6:13 AM	N	FLOW	MED	17.78	WADING	FOGGY		CLEAR	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
									CLEAR		CLEAR,				
DB010 [	DITCH BROOK - RPLOO - VRMP	6/15/2013	5:45 AM	N		нібн	11.67	WADING	FOGGY	CALM	CLOUDY	RIFFLE		MILKY	GROUND FOG WADEABLE/MID-DEPTH
		, ,,													, , , , , , , , , , , , , , , , , , , ,
					STORM									MEDIUM	
DB010 [	DITCH BROOK - RPLOO - VRMP	6/29/2013	5:48 AM	N	FLOW	HIGH	17.22	WADING	FOGGY	CALM	SHOWERS	RUN		STAINED	WADEABLE/MID-DEPTH
					DACE				CLEAR,		CLEAR,				
		7/12/2012		N	BASE		16.67			CALM		RIFELE		CLEAR	

Presumpscot River - Presumpscot River Watch

				**											
0				Sample			Air	Consta			D				
Organization Site Code		Date	Time	Type	Flow	Stage	(°C)	Sample	Weather	Air	Past 24HR Weather	Habitat	Stage	Annearance	Comments
Site coue	VIIIII SILE IS	Dute		Quanner	1100	Juge	( )	Location	weather	condition	weather	Hubitut	Juge	Appearance	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW.
					BASE						HEAVY				SHOULD BE BY WADING OR WITH EXTENSION POLE.
DB010	DITCH BROOK - RPL00 - VRMP	7/27/2013	6:19 AM	N	FLOW	HIGH	14.44	BANK	CLEAR	CALM	RAIN	RIFFLE		CLEAR	
											HEAVY				
											RAIN,				
					CTODA						LIGHT				
DB010		8/10/2013	6.28 VW	N		нісн	17 22	WADING	CLEAR	CALM	SHOWERS	RIFFLE		FOAMY	
00010		0/10/2013	0.20744		BASE	mon	17.22	WINDING		CALIN	SHOWERS			10/11/1	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW".
DB010	DITCH BROOK - RPL00 - VRMP	8/24/2013	6:29 AM	N	FLOW	LOW	10.56	BANK			CLEAR	RIFFLE		CLEAR	SHOULD BE BY WADING OR EXTENSION POLE.
	DOUGLAS BROOK - RLTNBDG20 -				BASE						PARTLY			MEDIUM	WADEABLE/MID-DEPTH D.O. METER- DID NOT ALLOW IT TO WARM UP FOR 20 MIN (15
DG010	VRMP	5/18/2013	7:35 AM	N	FLOW	LOW	5.556	WADING	CLEAR	CALM	CLOUDY	RIFFLE		STAINED	MIN).
	DOUGLAS BROOK - RLTNBDG20 -				BASE									MEDIUM	
DG010		6/1/2013	7:02 AM	N	FLOW	MED	18.33	WADING	CLEAR		CLEAR	RIFFLE		STAINED	WADEABLE/MID-DEPTH
DC010	DOUGLAS BROOK - REINBDG20 -	6/15/2012	6.54 AM	N	BASE	MED	11 0	DANK	CLEAR	CALM					
00010		0/13/2013	0.54 AIVI	IN IN	FLOW		11.5	DAINK	CLLAN	CALIVI	FOGGY			STAINED	
											HEAVY				
									FOGGY,		RAIN,				
	DOUGLAS BROOK - RLTNBDG20 -				STORM				LIGHT		LIGHT			MEDIUM	
DG010	VRMP	6/29/2013	7:05 AM	N	FLOW	HIGH	18.3	WADING	RAIN	CALM	RAIN	RUN		STAINED	WADEABLE/MID-DEPTH
DC010	DOUGLAS BROOK - RLINBDG20 -	7/12/2012	6.E0 AM	N	BASE		10.0	DANK	CLEAD	CALM	CLEAD				WATER ODOR "LIGHTLY" SEWAGE WADEABLE/MID-DEPTH SAMPLE LOCATION FROM
00010		//13/2013	0.33 AN	IN IN	FLOW		15.0	DAINK	CLLAN	CALIVI	LIGHT			STAINED	BANK AND NOT CENTER OF FLOW . SHOULD BE BE WADING OK EXTENSION FOLE.
											RAIN,				
											MOSTLY				
	DOUGLAS BROOK - RLTNBDG20 -				BASE						CLOUDY,			MEDIUM	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT 'CENTER OF FLOW".
DG010	VRMP	7/27/2013	7:10 AM	N	FLOW	LOW	19.1	BANK	CLEAR	CALM	SHOWERS	RUN		STAINED	SHOULD BE BY WADING OR EXTENSION POLE.
					STORM				CLEAR,		HEAVY				
DG010	VRMP	8/10/2013	6.22 AM	N	FLOW	MED	22 5	WADING		CALM	SHOWERS	RUN		STAINED	ωαρεαβί ε/μιρ-ρερτή
00010	DOUGLAS BROOK - RLTNBDG20 -	0/10/2015	0.35744		BASE		22.5	WINDING		C/ (LIVI	SHOWERS			STATED	
DG010	VRMP	8/24/2013	7:20 AM	N	FLOW	LOW	11.11	WADING		CALM	CLEAR	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
	EAST BRANCH PISCATAQUA RIVER -				BASE						PARTLY			MEDIUM	
PI010	RPSEB05 - VRMP	5/18/2013	7:15 AM	N	FLOW	LOW	12.78	WADING	CLEAR		CLOUDY	RIFFLE		STAINED	WADEABLE/MID-DEPTH
DIG10	EAST BRANCH PISCATAQUA RIVER -	C/4/2042	7.05.444		BASE				CLEAD		CLEAD			DARKLY	WADEABLE/MID-DEPTH D.O. METER- DID NOT ALLOW IT TO WARM UP AT LEAST 20
1010	RPSEB05 - VRIVIP	6/1/2013	7:05 AIVI	N	FLOW	INED	19.44	WADING	CLEAR	CALIVI		RUN		STAINED	MINUTES.
											MOSTLY				
											CLOUDY,				
											PARTLY				
	EAST BRANCH PISCATAQUA RIVER -				BASE						CLOUDY,				WADEABLE/MID-DEPTH WATER TEMPERATURE NOT ENTERED-FIELD SHEET DIFFICULT
PI010	RPSEB05 - VRMP	6/15/2013	7:00 AM	N	FLOW	LOW	12.78	WADING	CLEAR	BREEZE	SHOWERS	RIFFLE		TURBID	TO READ.
					CTODA									DADKIN	
<b>PI010</b>	PREPARE VENAD	6/20/2012	6.47 AM	N	STORM			DANK	CLOUDY						WADEABLE/MID-DEPTH D.O. METER-DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20
11010	FAST BRANCH PISCATAOUA RIVER -	0/25/2015	0.47 AN		BASE	Indir		DANK						JIANED	WADEABLE/MID-DEPTH D.O. METER-D ID NOT ALLOW IT TO WARM UP FOR AT LEAST 20
PI010	RPSEB05 - VRMP	7/13/2013	7:00 AM	N	FLOW	LOW		WADING	CLEAR		CLEAR	RUN		CLEAR	MINUTES.
									CLEAR,						48 HOURS AGO HEAVY RAIN WADEABLE/MID-DEPTH D.O. METER TIME OF CALIBRATION
	EAST BRANCH PISCATAQUA RIVER -				BASE				PARTLY		MOSTLY			MEDIUM	WAS NOT RECORDED. NOT SURE IF METER ALLOWED TO WARM UP FOR AT LEAST 20
PI010	RPSEB05 - VRMP	7/27/2013	6:40 AM	N	FLOW	LOW		WADING	CLOUDY		CLOUDY	RUN		STAINED	MINUTES.
															48 HOURS AGO HEAVY RAIN WADEABLE/MID-DEPTH D.O. METER TIME OF CALIBRATION
PI010	RPSER05 - VRMP	7/27/2012	6·40 ΔM	П				WADING							MINITES
010		1/2//2013	0.4074101			1		1.17101110				1	1		

Organization Site Code	VRMP Site ID	Date	Time	** Sample Type Qualifier	Flow	Stage	Air Temp (°C)	Sample	Current Weather	Air Condition	Past 24HR Weather	Habitat	Tide	Water	Comments
										1	CLOUDY,				
											HEAVY				
											RAIN,				
															CONCENTRATION IS ACTUALLY >2419.6. VALUE FOR USE IN GEOMETRIC MEAN.
	EAST BRANCH PISCATAQUA RIVER -				STORM						MOSTLY				MINUTES., WADEABLE/MID-DEPTH D.O. METER-DID NOT ALLOW IT TO WARM OF FOR
PI010	RPSEB05 - VRMP	8/10/2013	7:15 AN	I N	FLOW	HIGH	17.22	WADING	CLEAR	CALM	CLOUDY	RIFFLE		TURBID	AT LEAST 20 MINUTES.
															CONCENTRATION IS ACTUALLY >2419.6. VALUE FOR USE IN GEOMETRIC MEAN.
	EAST BRANCH PISCATAQUA RIVER -														WADEABLE/MID-DEPTH D.O. METER-DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20
PI010	RPSEB05 - VRMP	8/10/2013	7:15 AN	I D	DACE			WADING							MINUTES.
PI010	RPSEB05 - VRMP	8/24/2013	7.10 AM	I N	FLOW	low		WADING	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	YSI TOOK A LONG TIME TO WARM UP NO DO SAMPLES TODAY WADEABLE/MID-DEPTH
11010		0/21/2010	7120744		BASE				0222, 111	0, 12111	PARTLY			DARKLY	NON-WADEABLE/MID-DEPTH D.O. METER- DID NOT ALLOW IT TO WARM UP FOR 20
L050	LITTLE RIVER-L050-VRMP	5/18/2013	7:15 AN	I N	FLOW	LOW	5.556	BRIDGE	CLEAR	CALM	CLOUDY	RUN		STAINED	MIN (15 MIN).
					BASE									MEDIUM	
L050	LITTLE RIVER-L050-VRMP	6/1/2013	6:44 AN	I N	FLOW	MED	18.33	CULVERT	CLEAR	CALM	CLEAR	RUN		STAINED	NON-WADEABLE/MID-DEPTH
1.050		6/15/2013	6.31 AM		BASE	liow	11 0		CLEAR	CALM	SHOWERS	CASCADE			
1050		0/15/2015	0.34 Alv		1.000	1000	11.5			CALIVI	FOGGY,			JIANED	
											HEAVY				
									FOGGY,		RAIN,				
					STORM				LIGHT		LIGHT				
L050		6/29/2013	6:30 AIV	I N	FLOW	MED	18.3	CULVERI	RAIN	CALM	RAIN	RUN		TURBID	NON-WADEABLE/3 FT BELOW SURFACE BACTERIA DUPLICATE IS FIELD DUPLICATE.
L050	LITTLE RIVER-L050-VRMP	6/29/2013	6:30 AN	I D				CULVERT							NON-WADEABLE/3 FT BELOW SURFACE BACTERIA DUPLICATE IS FIELD DUPLICATE.
					BASE									MEDIUM	
L050	LITTLE RIVER-L050-VRMP	7/13/2013	6:33 AN	I N	FLOW	LOW	19.8	CULVERT	CLEAR	CALM	CLEAR	RUN		STAINED	NON-WADEABLE/MID-DEPTH
											LIGHT				
											MOSTLY				
					BASE						CLOUDY,			MEDIUM	
L050	LITTLE RIVER-L050-VRMP	7/27/2013	6:45 AN	I N	FLOW	LOW	U<	CULVERT	CLEAR	CALM	SHOWERS	RUN		STAINED	NON-WADEABLE/MID-DEPTH
L050	LITTLE RIVER-L050-VRMP	7/27/2013	6:45 AN	I D		<u> </u>		CULVERT	CLEAD		115 0.0/				NON-WADEABLE/MID-DEPTH
					STORM				DARTI Y		RAIN			DARKLY	
L050	LITTLE RIVER-L050-VRMP	8/10/2013	6:35 AN	I N	FLOW	MED	22.5	CULVERT	CLOUDY	CALM	SHOWERS	RUN		STAINED	NON-WADEABLE/MID-DEPTH
					BASE										
L050	LITTLE RIVER-L050-VRMP	8/24/2013	7:02 AIV	I N	FLOW	LOW	11.11	WADING		CALM	CLEAR	RIFFLE		TURBID	WADEABLE/MID-DEPTH
					DAGE						CLEAR,				
M010		5/18/2013	6.55 AM		BASE	liow	7 222	WADING	CLEAR	CALM		RIFFLE		CLEAR	
141010		5/10/2015	0.33741		BASE	1011	7.222	WINDING		CALIVI				MEDIUM	
M010	MILL BROOK - RML01 - VRMP	6/1/2013	7:45 AN	I N	FLOW	MED		WADING	CLEAR	CALM	CLEAR	RIFFLE		STAINED	WADEABLE/MID-DEPTH
					BASE									MEDIUM	
M010	MILL BROOK - RML01 - VRMP	6/15/2013	8:20 AN	I N	FLOW	MED	11.11	WADING	CLEAR	BREEZE	CLEAR	RIFFLE		STAINED	WADEABLE/MID-DEPTH
											HEAVY				
											RAIN.				
					STORM						LIGHT				
M010	MILL BROOK - RML01 - VRMP	6/29/2013	8:30 AN	I N	FLOW	HIGH	21	BRIDGE	FOGGY	CALM	RAIN	RIFFLE		TURBID	NON-WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
M010	MILL BROOK - RML01 - VRMP	6/29/2013	8:30 AN	D	DACE			BRIDGE						MEDUINA	NON-WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
M010	MILL BROOK - RML01 - VRMP	7/13/2013	7:30 AM	N	FLOW	HIGH	14.44	WADING	CLEAR	CALM	CLEAR	RIFFLE		STAINED	WADFABLE/MID-DEPTH

				** Sample			Air								
Organization Site Code	VRMP Site ID	Date	Time	Type	Flow	Stage	Temp (°C)	Sample	Current	Air	Past 24HR Weather	Habitat	Tide	Water	Comments
Jite coue		Dute		Quanter	1101	Juge		Location	weather	condition	CLEAR,	Hubitut	Juge	Appearance	comments
											LIGHT				
											RAIN,				
					BASE						CLOUDY.			MEDIUM	
M010	MILL BROOK - RML01 - VRMP	7/27/2013	7:55 AM	N	FLOW	MED	21.3	WADING	CLEAR	CALM	SHOWERS	RIFFLE		STAINED	WADEABLE/MID-DEPTH
M010		0/10/2012	6.20 AM		STORM	MED	15 56		CLEAD	CALM	HEAVY	DUN		TURRID	CONCENTRATION IS ACTUALLY >2419.6. VALUE FOR USE IN GEOMETRIC MEAN.
INIOIO		8/10/2013	0.30 AN		BASE	IVILD	15.50	WADING			NAIN	KUN		MEDIUM	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW".
M010	MILL BROOK - RML01 - VRMP	8/24/2013	6:40 AM	N	FLOW	MED	12.22	BANK	CLEAR	CALM	CLEAR	RUN		STAINED	SHOULD BE BY WADING OR WITH EXTENSION POLE.
		= /10 /2010			BASE						PARTLY				
M030	MILL BROOK - RML63 - VRMP	5/18/2013	7:45 AM	N	BASE	LOW	12.78	WADING	CLEAR		CLOUDY	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
M030	MILL BROOK - RML63 - VRMP	6/1/2013	7:35 AM	N	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.
											CLEAR,				
											MOSTLY				
											CLOUDY,				
					BASE						CLOUDY,				
M030	MILL BROOK - RML63 - VRMP	6/15/2013	7:25 AM	N	FLOW	MED	12.78	WADING	CLEAR	BREEZE	SHOWERS	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
					DACE										SAMPLED DOWNSTREAM FROM M030 WHICH IS INACCESSIBLE DUE TO DAM
M030	MILL BROOK - RML63 - VRMP	7/13/2013	7:20 AM	N	FLOW	LOW		WADING	CLEAR		CLEAR	RIFFLE		CLEAR	UP FOR AT LEAST 20 MINUTES.
		.,,													PAST 48 HOURS HEAVY RAIN: SAMPLED DOWNSTREAM OF M030 DUE TO DAM
															RECONSTRUCTION WADEABLE/MID-DEPTH D.O. METER TIME OF CALIBRATION WAS
					BASE				CLEAR,		MOSTLY				NOT RECORDED. NOT SURE IF METER ALLOWED TO WARM UP FOR AT LEAST 20
M030	MILL BROOK - RML63 - VRMP	7/27/2013	7:00 AM	N	FLOW	LOW		WADING	CLOUDY		CLOUDY	RIFFLE		CLEAR	
											CLOUDY,				
											HEAVY				
											LIGHT				
											RAIN,				
					BASE						MOSTLY				SAMPLE SITE IS BELOW M030 DUE TO DAM RECONSTRUCTION WADEABLE/MID-DEPTH
M030	MILL BROOK - RML63 - VRMP	8/10/2013	7:30 AM	N	FLOW	MED	17.22	WADING	CLEAR	CALM	CLOUDY	RIFFLE		CLEAR	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	FLOW	LOW		WADING	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	WARM UP. NO DO SAMPLES TODAY WADEABLE/MID-DEPTH
					BASE				CLEAR,	-	-			-	
N010	NASON BROOK - RNS11 - VRMP	5/18/2013	6:30 AM	N	FLOW	LOW	4.444	BANK	FOGGY	CALM	CLEAR	RUN		TURBID	WADEABLE/MID-DEPTH
N010	NASON BROOK - RNS11 - VRMP	6/1/2013	6·38 AM	N	BASE	liow	17 78	WADING	EDGGY		CLEAR	RUN		STAINED	
11010		0/1/2013	0.50740		12011	1011	17.70	Witbille	10001		CLEAR,			STATED	
					BASE				CLEAR,		PARTLY				
N010	NASON BROOK - RNS11 - VRMP	6/15/2013	6:15 AM	N	FLOW	LOW	11.67	CULVERT	FOGGY	CALM	CLOUDY	RUN		TURBID	WADEABLE/MID-DEPTH
					STORM										SHOULD BE BY WADING OR EXTENSION POLE. BACTERIA DUPLICATE IS FIELD
N010	NASON BROOK - RNS11 - VRMP	6/29/2013	6:35 AM	N	FLOW	HIGH	17.22	BANK	FOGGY	CALM	SHOWERS	RUN		TURBID	DUPLICATE.
															WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW".
N010		6/20/2012	6-3E AMA					BANK							SHOULD BE BY WADING OR EXTENSION POLE. BACTERIA DUPLICATE IS FIELD
11010		0/25/2015	0.33 AIVI					DAININ	CLEAR,		CLEAR,				
					BASE				PARTLY		PARTLY			MEDIUM	
N010	NASON BROOK - RNS11 - VRMP	7/13/2013	6:19 AM	N	FLOW	LOW	16.67	WADING	CLOUDY	CALM	CLOUDY	RUN		STAINED	WADEABLE/MID-DEPTH
N010	NASON BROOK - RNS11 - VRMP	7/27/2013	6:40 AM	N	FLOW	MED	14.44	BANK	CLEAR	CALM	RAIN	RUN		STAINED	SHOULD BE BY WADING OR WITH EXTENSION POLE.

Organization				** Sample Type			Air Temp	Sample	Current	Air	Past 24HR		Tide	Water	
Site Code	VRMP Site ID	Date	Time	Qualifier	Flow	Stage	(°C)	Location	Weather	Condition	Weather	Habitat	Stage	Appearance	Comments
											HEAVY				
											RAIN,				
					STORM										
N010	NASON BROOK - RNS11 - VRMP	8/10/2013	7:00 AM	N	FLOW	нібн	17.22	CULVERT	CLEAR	CALM	SHOWERS	RUN		TURBID	NON-WADEABLE/MID-DEPTH
					BASE				-	-					
N010	NASON BROOK - RNS11 - VRMP	8/24/2013	6:58 AM	N	FLOW	LOW	10.56	WADING	CLEAR	CALM	CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
					BASE				CLEAR,						
OB010	OTTER BROOK - ROT06 - VRMP	5/18/2013	5:26 AM	N	FLOW	MED	4.444	WADING	FOGGY		CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
08010	OTTER PROOF POTOS VENAD	6/1/2012	E-29 AM	N	BASE	MED	17 70		LEAR,		CLEAR	DUN		CLEAR	
00010		0/1/2013	5.30 AN		1 20 00	IVILD	17.70	COLVENT	10001		CLEAR.				
					BASE				CLEAR,		PARTLY				
OB010	OTTER BROOK - ROT06 - VRMP	6/15/2013	5:15 AM	N	FLOW	HIGH	11.67	CULVERT	FOGGY	CALM	CLOUDY	RUN		CLEAR	GROUND FOG WADEABLE/MID-DEPTH
					BASE									MEDIUM	
OB010	OTTER BROOK - ROT06 - VRMP	6/29/2013	5:13 AM	N	FLOW	HIGH	17.22	CULVERT	FOGGY	CALM	SHOWERS	RUN		STAINED	WADEABLE/MID-DEPTH
					DASE				CLEAR,		CLEAR,				
OB010	OTTER BROOK - ROTO6 - VRMP	7/13/2013	5.16 AM	N	FLOW	MED	16 67					RUN		CLEAR	WADEABI E/MID-DEPTH
00010		1/10/2010	51207411		BASE		10.07		020001		HEAVY				
OB010	OTTER BROOK - ROT06 - VRMP	7/27/2013	5:38 AM	N	FLOW	MED	14.44	CULVERT	CLEAR	CALM	RAIN	RUN		CLEAR	WADEABLE/MID-DEPTH
											HEAVY				
											RAIN,				
					DAGE						LIGHT				
08010	OTTER PROOF POTOS VEND	0/10/2012	5.47 AM	N	BASE		17 22		CLEAR	CALM	KAIN,	DUN		CLEAR	
08010		8/10/2013	5.47 AIVI		FLOW		17.22	COLVERT		CALIVI	SHOWERS	KON		CLLAN	
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
		= /10/0010			BASE						PARTLY				
PI020	PISCATAQUA RIVER - RPS12 - VRMP	5/18/2013	6:45 AM	N	FLOW	LOW	12.78	WADING	CLEAR		CLOUDY	RIFFLE		CLEAR	WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
PI020	PISCATAOUA RIVER - RPS12 - VRMP	5/18/2013	6.45 AM					WADING							WADFABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE
11020		5/10/2015	0.45740		BASE			Witblitte							WADEABLE/MID-DEPTH D.O. METER- DID NOT ALLOW IT TO WARM UP FOR 20
PI020	PISCATAQUA RIVER - RPS12 - VRMP	6/1/2013	6:45 AM	N	FLOW	MED	19.44	WADING	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	MINUTES.
															WADEABLE/MID-DEPTH D.O. METER- DID NOT ALLOW IT TO WARM UP FOR 20
PI020	PISCATAQUA RIVER - RPS12 - VRMP	6/1/2013	6:45 AM	D	ļ			WADING							MINUTES.
											CLEAR,				
											PARTLY				
					BASE						CLOUDY,				WADEABLE/MID-DEPTH SPECIFIC CONDUCTANCE READING NOT ENTERED-DATASHEET
PI020	PISCATAQUA RIVER - RPS12 - VRMP	6/15/2013	6:45 AM	N	FLOW	MED	12.78	WADING	CLEAR	BREEZE	SHOWERS	RIFFLE		CLEAR	DIFFICULT TO READ.
															WADEABLE/MID-DEPTH SPECIFIC CONDUCTANCE READING NOT ENTERED-DATASHEET
PI020	PISCATAQUA RIVER - RPS12 - VRMP	6/15/2013	6:45 AM	D				WADING							DIFFICULT TO READ.
					STORM									DARKIV	
PI020	PISCATAOUA RIVER - RPS12 - VRMP	6/29/2013	6:35 AM	N	FLOW	нісн		WADING	CLOUDY		RAIN	RUN		STAINED	MINUTES.
		0,20,2015	0.557.00		BASE										WADEABLE/MID-DEPTH D.O. METER-DID NOT ALLOW IT TO WARM UP FOR AT LEAST 20
PI020	PISCATAQUA RIVER - RPS12 - VRMP	7/13/2013	6:45 AM	N	FLOW	LOW		WADING	CLEAR		CLEAR	RIFFLE		CLEAR	MINUTES.
									CLEAR,						48 HOURS AGO HEAVY RAIN WADEABLE/MID-DEPTH D.O METER-TIME OF CALIBRATION
					BASE				PARTLY		MOSTLY				WAS NOT RECORDED. NOT SURE IF METER ALLOWED TO WARM UP FOR AT LEAST 20
PI020	PISCATAQUA RIVER - RPS12 - VRMP	7/27/2013	6:30 AM	N	FLOW	LOW		WADING	CLOUDY		CLOUDY	RIFFLE		CLEAR	IMINUTES.

Organization				** Sample Type			Air Temp	Sample	Current	Air	Past 24HR		Tide	Water	
Site Code	VRMP Site ID	Date	Time	Qualifier	Flow	Stage	(°C)	Location	Weather	Condition	CLOUDY	Habitat	Stage	Appearance	Comments
PI020	PISCATAQUA RIVER - RPS12 - VRMP	8/10/2013	7:05 AM	N	STORM FLOW	HIGH	17.22	WADING	CLEAR	CALM	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	PISCATAOLIA RIVER - RPS12 - VRMP	8/24/2013	6·35 AM	N	BASE	low		WADING	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	YSI TOOK & LONG TIME TO WARM LIP. NO DO SAMPLES TODAY WADEABLE/MID-DEPTH
11020		0/24/2013	0.33 AN		12000			WADING			HEAVY				
PL010	PLEASANT RIVER - RPL06 - VRMP	6/15/2013	6:45 AM	N	BASE FLOW	нідн	11.67	BRIDGE	CLEAR	CALM	RAIN, SHOWERS	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
PL010	PLEASANT RIVER - RPLOG - VRMP	6/29/2013	7:00 AM	N	STORM FLOW	MED	15.56	BRIDGE	CLOUDY, FOGGY	CALM	FOGGY, LIGHT RAIN	RUN		TURBID	NON-WADEABLE/3 FT BELOW SURFACE
PI 010	PI FASANT RIVER - RPI 06 - VRMP	7/13/2013	7.35 AM	N	STORM	нісн		BRIDGE	CLEAR	CALM	CLEAR	RUN		CLEAR	NON-WADFABI F/3 FT BELOW SURFACE
PLOTO		7/15/2015	C:40 AM	N	BASE	MED	17.22		CLEAR	CALM	CLOUDY, LIGHT RAIN,			CLEAR	
PLOID	PLEASANT RIVER - RPLUG - VRIVIP	//2//2015	0.40 AlVI	IN	FLOW	IVIED	17.22	BRIDGE	CLEAR		SHOWERS	KUN		CLEAR	NON-WADEADLE/S FI DELOW SUNFACE
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	FLOW	MED	7.778	WADING	CLEAR	CALM	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.
PI 020	PI FASANT RIVER - RPI 29 - VRMP	6/29/2013	7·40 AM	N	STORM	нісн		WADING	CLOUDY, LIGHT BAIN		CLOUDY, FOGGY, LIGHT BAIN	BUN		CLEAR	WADFARI F/MID-DEPTH BACTERIA DUPI ICATE IS FIELD DUPI ICATE
							1						1		
PL020	PLEASANT RIVER - RPL29 - VRMP	6/29/2013	7:40 AM	D				WADING			CLEAR				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		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
DI 030		0/01/001			BASE				0.545		0.545	DUN		0.545	
PL020	PLEASANT RIVER - RPL29 - VRMP	5/18/2013	5:47 AM	N	BASE	MED	4.444	WADING	CLEAR CLEAR, FOGGY	CALM	CLEAR	RUN		TURBID	WADEABLE/WID-DEPTH WADEABLE/MID-DEPTH

Presumpscot River - Presumpscot River Watch

				** Sample			Air								
Organization Site Code	VRMP Site ID	Date	Time	Type Qualifier	Flow	Stage	Temp (°C)	Sample Location	Current Weather	Air	Past 24HR Weather	Habitat	Tide Stage	Water Appearance	Comments
					BASE				CLEAR,						
PL040	PLEASANT RIVER - RPL47 - VRMP	6/1/2013	5:59 AM	N	FLOW	MED	17.78	WADING	FOGGY		CLEAR	RUN		TURBID	WADEABLE/MID-DEPTH
PI 040		6/15/2012	E-22 AM	N	BASE	шсц	11 67	DANK	CLEAR,	CALM	PARTLY	PLIN		חופפווד	GROUND FOG WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT
F L040		0/13/2013	5.52 Alv		FLOW		11.07	DAINK	FOGGT	CALIVI		KON		ТОКЫС	
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.
DI 040		7/12/2012	E-25 AM		BASE		10.07	DANK	CLEAR, PARTLY		CLEAR, PARTLY	DUN		MEDIUM	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW".
PL040	PLEASANT RIVER - RPL47 - VRIVIP	//13/2013	5:35 AIV	I IN	BASE	LOW	16.67	BAINK	CLOUDY		HEAVY	RUN		DARKLY	WADEABLE/1.5 FT BELOW SURFACE SAMPLE LOCATION FROM BANK AND NOT "CENTER
PL040	PLEASANT RIVER - RPL47 - VRMP	7/27/2013	5:58 AM	N	FLOW	MED	14.44	BANK	CLEAR	CALM	RAIN	RUN		STAINED	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	FLOW	MED	10.56	BANK			CLEAR	RUN		TURBID	WADFABLE/MID-DEPTH
											HEAVY				
					BASE						RAIN,				
P110	PRESUMPSCOT RIVER - R133 - VRMP	6/15/2013	6:35 AM	N	FLOW	HIGH	11.67	BRIDGE	CLEAR	CALM	SHOWERS	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
P110	PRESUMPSCOT RIVER - R133 - VRMP	6/29/2013	7:20 AM	N	STORM FLOW	MED	15.56	BRIDGE	CLOUDY, FOGGY	CALM	FOGGY, LIGHT RAIN	RUN			NON-WADEABLE/3 FT BELOW SURFACE
					STORM										
P110	PRESUMPSCOT RIVER - R133 - VRMP	7/13/2013	6:35 AM	N	FLOW	HIGH		BRIDGE	CLEAR	CALM	CLEAR	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
					BASE						LIGHT RAIN				
P110	PRESUMPSCOT RIVER - R133 - VRMP	7/27/2013	6:21 AM	N	FLOW	MED	17.22	BRIDGE	CLEAR	CALM	SHOWERS	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
D110		8/10/2012	7.15 0.00	N	STORM	MED	15 56	RRIDCE	CLEAR	CALM	HEAVY	DUN		MEDIUM	
P110	PRESUMPSCOT RIVER - RISS - VRIVIP	0/10/2015	7.15 AlV	I IN	BASE	IVIED	15.50	DRIDGE	CLEAR		PARTLY	KUN		STAINED	
P200	PRESUMPSCOT RIVER - R225 - VRMP	5/18/2013	7:35 AM	N	FLOW	MED	7.778	WADING	CLEAR	CALM	CLOUDY	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
P200	PRESUMPSCOT RIVER - R225 - VRMP	6/1/2013	7:15 AM	N	BASE FLOW	MED		WADING	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	NON-WADEABLE/MID-DEPTH
											HEAVY				
P200	PRESUMPSCOT RIVER - R225 - VRMP	6/15/2013	7.33 AM	N	FLOW	MED	11 67	WADING	CLEAR	CALM	SHOWERS	RIFFLE		CLEAR	WADFABLE/MID-DEPTH
1200		0/13/2013	7.55744		12011		11.07	Withdawa	CLEVIN	CALINI	CLOUDY,				
											FOGGY,				
P200		6/20/2012	7.05 AM	N	STORM			DANK	CLOUDY,		LIGHT	DUN		CLEAR	WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT 'CENTER OF FLOW".
F 200		0/25/2015	7.05 Alv		FLOW			DANK			KAIN	KON		CLLAN	
					STORM										
P200	PRESUMPSCOT RIVER - R225 - VRMP	7/13/2013	7:10 AM	N	FLOW	HIGH		WADING	CLEAR	CALM	CLEAR	RUN		CLEAR	WADEABLE/MID-DEPTH
											LIGHT				
					BASE						RAIN,				
P200	PRESUMPSCOT RIVER - R225 - VRMP	7/27/2013	7:05 AM	N	FLOW	HIGH	17.22	WADING	CLEAR	CALM	SHOWERS	RIFFLE		CLEAR	WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.
P200	PRESUMPSCOT RIVER - R225 - VRMP	7/27/2013	7:05 AM	D				WADING							WADEABLE/MID-DEPTH BACTERIA DUPLICATE IS FIELD DUPLICATE.

Organization				** Sample Type			Air Temp	Sample	Current	Air	Past 24HR		Tide	Water	
Site Code	VRMP Site ID	Date	Time	Qualifier	Flow	Stage	(°C)	Location	Weather	Condition	Weather	Habitat	Stage	Appearance	Comments
					DASE				CLEAR		FOGGY, LIGHT RAIN, MOSTLY				
P200	PRESUMPSCOT RIVER - R225 - VRMP	8/10/2013	7:00 AN	N	FLOW	MED		BANK	FOGGY	CALM	SHOWERS	RUN		CLEAR	FLOW. SHOULD BE BY WADING.
P200	PRESUMPSCOT RIVER - R225 - VRMP	8/10/2013	7:00 AM	D	DACE			BANK							FLOW. SHOULD BE BY WADING.
P200	PRESUMPSCOT RIVER - R225 - VRMP	8/24/2013	6:58 AIV	N	FLOW	MED		BANK	CLEAR	CALM	CLEAR	RUN		CLEAR	FLOW: SHOULD BE BY WADING.
					BASE						PARTLY			MEDIUM	
P020	PRESUMPSCOT RIVER - R24 - VRMP	5/18/2013	6:15 AN	N	FLOW BASE	LOW	7.222	BRIDGE	CLEAR	CALM	CLOUDY	RUN		STAINED MEDIUM	NON-WADEABLE/3 FT BELOW SURFACE
P020	PRESUMPSCOT RIVER - R24 - VRMP	6/1/2013	7:00 AIV	N	FLOW	MED		BRIDGE	CLEAR	CALM	CLEAR	RUN		STAINED	NON-WADEABLE/MID-DEPTH
P020	PRESUMPSCOT RIVER - R24 - VRMP	6/15/2013	7:40 AN	N	STORM FLOW	HIGH	11.11	BRIDGE	CLEAR	BREEZE	CLEAR	RUN		TURBID	NON-WADEABLE/MID-DEPTH
					STORM						FOGGY, HEAVY RAIN, LIGHT				
P020	PRESUMPSCOT RIVER - R24 - VRMP	6/29/2013	7:30 AN	N	FLOW	HIGH	21	BRIDGE	FOGGY	CALM	RAIN	RUN		TURBID	NON-WADEABLE/MID-DEPTH
P020	PRESUMPSCOT RIVER - R24 - VRMP	7/13/2013	6:50 AIV	N	BASE FLOW	HIGH	14.44	BRIDGE	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
P020	PRESUMPSCOT RIVER - R24 - VRMP	7/27/2013	7:20 AM	N	BASE	MED	21.3	BRIDGE	CLEAR	CALM	CLEAR, LIGHT RAIN, MOSTLY CLOUDY, SHOWERS	RUN		MEDIUM	NON-WADEABLE/MID-DEPTH
P020	PRESUMPSCOT 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
										1	CLEAR,				
P030	PRESUMPSCOT RIVER - R47 - VRMP	5/18/2013	6:35 AN	N	BASE FLOW	LOW	7.222	BRIDGE	CLEAR	CALM	PARTLY CLOUDY	RUN		STAINED	NON-WADEABLE/3 FT BELOW SURFACE
P030	PRESUMPSCOT RIVER - R47 - VRMP	6/1/2013	7:30 AM	N	BASE FLOW	MED		BRIDGE	CLEAR	CALM	CLEAR	RUN		MEDIUM STAINED	NON-WADEABLE/MID-DEPTH
					STORM										
P030	PRESUMPSCOT RIVER - R47 - VRMP	6/15/2013	8:05 AN	N	FLOW	HIGH	11.11	BRIDGE	CLEAR	BREEZE	CLEAR	RUN		TURBID	NON-WADEABLE/MID-DEPTH
P030	PRESUMPSCOT RIVER - R47 - VRMP	6/15/2013	8:05 AN	D				BRIDGE							NON-WADEABLE/MID-DEPTH
P030	PRESUMPSCOT RIVER - R47 - VRMP	6/29/2013	8:10 AN	N	STORM FLOW	нідн	21	BRIDGE	FOGGY	CALM	FOGGY, HEAVY RAIN, LIGHT RAIN	RUN		TURBID	NON-WADEABLE/MID-DEPTH
P030	PRESUMPSCOT RIVER - R47 - VRMP	6/29/2013	8:10 AN	D				BRIDGE							NON-WADEABLE/MID-DEPTH
POSO		7/13/2013	7.10 AM	N	BASE	нісн	14.44	BRIDGE	CLEAR	CALM	CLEAR	RUN		MEDIUM	
P030		7/27/2012	7:40 41	N	BASE	MED	21.2	PRIDGE			CLEAR, LIGHT RAIN, MOSTLY CLOUDY,			MEDIUM	

				**											
				Sample			Air								
Organization	VIDMD Site ID	Data	Time	Type	Flow	Channel	Temp	Sample	Current	Air	Past 24HR	Unhited	Tide	Water	Commente
Site Code		Date	Time	Quaimer	FIOW	Stage	()	Location	weather	Condition	weather	Habitat	Stage	Appearance	Comments
					STORM						ΗΕΔΛΛΑ			DARKLY	
P030	PRESUMPSCOT RIVER - R47 - VRMP	8/10/2013	6:15 AM	N	FLOW	MED	15.56	BRIDGE	CLEAR	CALM	RAIN	RUN		STAINED	WADEABLE/1.5 FT BELOW SURFACE
					BASE										
P030	PRESUMPSCOT RIVER - R47 - VRMP	8/24/2013	6:25 AM	N	FLOW	MED	12.22	BRIDGE	CLEAR	CALM	CLEAR	RUN		CLEAR	NON-WADEABLE/3 FT BELOW SURFACE
					BASE						PARTLY				WADEABLE/MID-DEPTH D.O. METER- DID NOT ALLOW IT TO WARM UP FOR 20 MIN (15
TA010	TANNERY BROOK - RLTTN06 - VRMP	5/18/2013	6:35 AM	N	FLOW	LOW	5.556	WADING	CLEAR	CALM	CLOUDY	RIFFLE		CLEAR	MIN).
					BASE										
TA010	TANNERY BROOK - RLTTN06 - VRMP	6/1/2013	7:25 AM	N	FLOW	LOW	18.33	WADING	CLEAR		CLEAR	RIFFLE		CLEAR	WADEABLE/MID-DEPTH
-		C /4 E /2042	7 45 444		BASE				CLEAD		CUONEDC	DIFFLE		CLEAD	
TAUIU	TANNERY BROOK - RETTNOG - VRIVIP	6/15/2013	7:15 AIVI	N N	FLOW	LOW	11.9	WADING	CLEAR	CALIVI	SHOWERS	RIFFLE		CLEAR	
TA010	TANNERY BROOK - RLTTN06 - VRMP	6/15/2013	7:15 AM	D				WADING							WADEABLE/MID-DEPTH
										1	FOGGY,				
											HEAVY				
									FOGGY,		RAIN,				
					STORM				LIGHT		LIGHT				
TA010	TANNERY BROOK - RLTTN06 - VRMP	6/29/2013	7:25 AM	N	FLOW	MED	18.3	WADING	RAIN	ļ	RAIN	RUN		TURBID	WADEABLE/MID-DEPTH
					BASE										WADEABLE/MID-DEPTH SAMPLE LOCATION FROM BANK AND NOT "CENTER OF FLOW.
TA010	TANNERY BROOK - RLTTN06 - VRMP	7/13/2013	7:22 AM	N	FLOW	LOW	19.8	BANK	CLEAR	CALM	CLEAR	RIFFLE		CLEAR	SHOULD BE BY WADING OR EXTENSION POLE.
											MOSTLV				
					BASE										WADEABLE/MID-DEPTH SAMPLE LOCATION FROM AND NOT "CENTER OF ELOW
TA010	TANNERY BROOK - RLTTN06 - VRMP	7/27/2013	7:30 AM	N	FLOW	LOW	19.1	BANK	CLEAR	CALM	SHOWERS	RIFFLE		CLEAR	SHOULD BE BY WADING OR WITH EXTENSION POLE.
		.,,							CLEAR.		HEAVY				
					STORM				PARTLY		RAIN,				
TA010	TANNERY BROOK - RLTTN06 - VRMP	8/10/2013	7:15 AM	N	FLOW	MED	22.5	WADING	CLOUDY	CALM	SHOWERS	RIFFLE		TURBID	NON-WADEABLE/MID-DEPTH
					BASE										
TA010	TANNERY BROOK - RLTTN06 - VRMP	8/24/2013	6:42 AM	N	FLOW	LOW	11.11	WADING		CALM	CLEAR	RIFFLE		CLEAR	WADEABLE/MID-DEPTH

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

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