

**STATE OF RHODE ISLAND**  
**2012 303(d) LIST**  
**LIST OF IMPAIRED WATERS**  
**FINAL**  
**August 2012**

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## **OVERVIEW AND EXPLANATION**

### **Clean Water Act Requirements**

This list of impaired waters is developed by the Rhode Island Department of Environmental Management (DEM) in response to requirements of Section 303(d) of the federal Clean Water Act (CWA). The 303(d) list is part of a process detailed in the CWA, which requires all states to do the following:

1. Establish water quality standards (WQS) (including Water Designated Uses and Water Quality Criteria to protect those uses) for the state's surface waters;
2. Monitor water quality conditions of the state's waters;
3. Assess water quality conditions of the state's waters and develop biennial reports describing the water quality conditions (CWA section 305(b));
4. Identify and list impaired waters (that is those waters that do not meet WQS with existing required technology-based pollution controls alone) in the state's 303(d) list;
5. Set priority rankings (a schedule for development of total maximum daily loads (TMDLs))<sup>1</sup> for all impaired waters included on the 303(d) list;
6. Determine TMDLs that establish acceptable pollutant loads from both point and non point sources of pollution which allow the impaired waterbody to meet WQS - for each listed waterbody and each cause of impairment;
7. Submit the 303(d) list and all TMDLs to U.S. Environmental Protection Agency for approval; and
8. Incorporate TMDLs into the state's continuing planning process.

### **305(b) Water Quality Assessment Process**

In accordance with Section 305(b) of the CWA, states are required to survey their water quality for attainment of the fishable/swimmable goals of the Act, and to report the water quality assessments biennially (every even year). The attainment of the CWA goals is measured by determining how well waters support their designated uses (defined as the most sensitive and therefore governing water uses which the class is intended to protect). For the purposes of the 305(b) water quality assessments, seven designated uses are evaluated:

- fish and wildlife habitat (aquatic life use),
- drinking water supply,
- shellfish consumption,
- shellfish controlled relay and depuration,
- fish consumption,
- primary contact recreation and,
- secondary contact recreation.

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<sup>1</sup> **TMDL** is Total Maximum Daily Load and refers to the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards. The term also refers to the waterbody specific studies completed to determine the allowable pollutant levels and the pollution control activities needed to restore water quality.

In the assessments, use support status is determined by comparing available water quality information to the water quality standards established in the Rhode Island Water Quality Regulations. The methodology for this assessment process is outlined in RI's Consolidated Assessment and Listing Methodology (CALM), June 2009: <http://www.dem.ri.gov/programs/benviron/water/quality/pdf/finlcalm.pdf>). The results of this comparison are then used to categorize each waterbody's specific designated uses as "Fully Supporting", or "Not Supporting". If data is considered insufficient or no data is available to evaluate a designated use, it is considered "Not Assessed". Waterbodies that are Not Supporting their criteria or designated uses as determined during the 305(b) assessment process, are placed on the state's List of Impaired Waters which is developed in accordance with Section 303(d) of the CWA.

### **Integrated Water Quality Monitoring and Assessment**

Beginning in 2008, DEM integrated the state's Section 305(b) water assessment report and Section 303(d) Impaired Waters List into one document, the Integrated Water Quality Monitoring and Assessment Report. Following US EPA issued guidance<sup>2</sup>, the Integrated Report (IR) provides a streamlined approach to assessing and reporting on water quality. The report format provides five lists/categories of water quality assessment information.

The Integrated Report Guidance emphasizes the importance of monitoring and assessing waterbodies in each category to obtain the information needed to evaluate progress toward attainment of water quality standards, to address data gaps, and to ensure that waterbodies which currently meet water quality standards, continue to do so. While each waterbody is placed into only one of the five reporting categories, the attainment status of each designated use for each waterbody is documented to facilitate tracking of information and to assist in addressing data gaps and directing water quality monitoring efforts. For example, a waterbody may be Fully Supporting swimming use, but there may be insufficient data to develop an aquatic life use support status.

The Integrated Report Categories are presented below with a description of how the results of the individual assessments for each designated use on a waterbody are integrated to determine the final Integrated Reporting Category for each waterbody. In general, the integration of assessment determinations follows a hierarchical approach where a determination of impairment for any cause (pollutant), for any of the waterbody's designated uses will result in placement of the waterbody in Category 5. Similarly, there is a hierarchical approach to placement of a waterbody into Category 4A over 4B over 4C.

Each waterbody or waterbody segment is assigned a waterbody identification (WBID) number for purposes of tracking - for example, to assist with water quality assessments, mapping, reporting, or ultimately, trend analysis. The waterbodies are organized according to Rhode Island's ten major drainage basins. Based on the state's consolidated assessment and listing methodology (CALM), each surface waterbody of the state will be placed into one of the following five assessment categories:

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<sup>2</sup> Memorandum from Suzanne Schwartz. Information Concerning 2010 Clean Water Act Sections 303(d), 305(b), and 314 Integrated Reporting and Listing Decisions. May 5, 2009. (<http://www.epa.gov/owow/tmdl/guidance/final52009.html>)

- Category 1 Attaining all designated uses.** Waterbodies will be placed into this Category if, in accordance with the requirements of the CALM, the assessment results indicate that the waterbody is attaining all water quality standards for all designated uses.
- Category 2 Attaining some of the designated uses; and insufficient or no data and information is available to determine if the remaining uses are attained.** Waterbodies will be placed in this Category if there are data and information which, in accordance with the CALM, support a determination that some, but not all, uses are attained and attainment status of the remaining uses is unknown because there is insufficient or no data or information.
- Category 3 Insufficient or no data and information are available to determine if any designated use is attained or impaired.** Waterbodies will be placed in this Category where the data or information to support an attainment determination for all uses are not sufficient, consistent with the requirements of the CALM. In general, these uses and waterbodies are considered Not Assessed.
- Category 4 Impaired or threatened for one or more designated uses but does not require development of a TMDL.** (Three subcategories):
- A. TMDL has been completed.** Waterbodies will be placed in this subcategory once all TMDLs for the waterbody have been developed and approved by EPA.
  - B. Other pollution control requirements are reasonably expected to result in attainment of the water quality standard in the near future.** Waterbodies will be placed in this subcategory where other pollution control requirements are stringent enough to attain applicable water quality standards.
  - C. Impairment is not caused by a pollutant.** Waterbodies will be placed in this subcategory if pollution (e.g., flow) rather than a pollutant causes the impairment.
- Category 5 Impaired or threatened for one or more designated uses by a pollutant(s), and requires a TMDL.** This Category constitutes the 303(d) List of waters impaired or threatened by a pollutant(s) for which one or more TMDL(s) are needed.

Waterbodies can be moved from Category 5, and Category 4, to Category 1 if, in accordance with the CALM, recent data indicates that the waterbody is now meeting all water quality standards for all uses, or Category 2 if, in accordance with the CALM, recent data indicates that the waterbody is now meeting water quality standards for some designated uses and is not assessed for other designated uses.

As described above, the five Integrated Report Categories represent assessment status under Section 305(b) and Category 5 represents the reporting requirements under Section 303(d) of the Clean Water Act. Only Category 5 (Impaired Waters List) of the Integrated Report is subject to US EPA approval and public participation requirements. Therefore, while all the lists (Categories 1-5) are made available for public information and education purposes, RIDEM seeks comments only on the Category 5 list (303(d) List of Impaired Waters).

### Summary of Ambient Water Quality Monitoring Data

As noted in the CALM, DEM strives to consider all readily available water quality data and related information in developing the 305(b) water quality assessments and 303(d) impaired waters list. For development of the 2012 Integrated Report, a special emphasis was placed on obtaining and considering data and information for Narragansett Bay – particularly data collected from 2009 through 2011. Data and information from outside of Narragansett Bay will be considered for future surface water quality assessments (2014 Integrated Report), RIPDES permitting decisions, TMDL development and/or other environmental management and regulatory-decision making needs.

In general, the primary source of data generated for assessments is developed from programs that fall under the umbrella of Rhode Island's Water Monitoring Strategy ([http://www.ci.uri.edu/Projects/RI-Monitoring/Docs/DEM\\_WQ\\_Oct\\_14\\_05.pdf](http://www.ci.uri.edu/Projects/RI-Monitoring/Docs/DEM_WQ_Oct_14_05.pdf)). The RIDEM Office of Water Resources (RIDEM OWR) has a primary role in implementing the strategy by both conducting monitoring programs and supporting monitoring by other entities. Collectively, the monitoring programs are aimed at gathering the ambient water quality data needed to assess water quality conditions and support management decision-making.

The DEM-OWR conducts both ambient and programmatic monitoring programs. With respect to ambient monitoring, the DEM -OWR has involvement statewide in both fresh and coastal waters. Beginning in 2004, RIDEM/OWR adopted a rotating basin approach to sampling rivers and streams (<http://www.dem.ri.gov/pubs/qapp/ambirivr2.pdf>) to address large data gaps and in response to EPA's requirement that states increase the percentage of assessed waters. This approach integrates biological, chemical and physical monitoring and involves an intensive data collection effort using a geometric design of locating stations in addition to targeted sampling stations to bracket known or suspected pollution sources. Following this approach, the Office of Water Resources completed the first statewide rotating monitoring cycle of rivers and streams between 2004 and 2009. A second statewide rotational monitoring cycle began in 2011. Almost 200 stations have been sampled via this program providing a statewide dataset that supported a more complete assessment of water quality conditions in rivers and streams during the 2010 assessment cycle than has ever been possible before. The significant jump in the number of impaired waters from 2008 to 2010 was a reflection of this monitoring effort. DEM continues to follow the rotating basin approach to sampling the state's rivers and streams.

Quality assurance (QA) is an important component of the major monitoring programs relied upon by state water protection programs. It is important to ensure that the data generated by monitoring and used to support decision-making in water protection programs is valid and appropriate. DEM maintains a goal of generating and compiling data of acceptable quality for use in the water quality assessment program. To achieve this goal, certain data quality assurance

and quality control procedures must be met. QA is defined as the overall management system of a project including the organization, planning, data collection, quality control, documentation, evaluation, and reporting activities. QA provides the information needed to determine the data's quality and whether it meets the project's requirements. Quality control (QC) is defined as the routine technical activities intended primarily to control errors. Since errors can occur in either the field, the laboratory, or in the office, QC must be a part of each of these activities.

To comply with EPA regulations, monitoring projects funded by federal money are required to develop, submit, and implement an EPA approved Quality Assurance Project Plan (QAPP). QAPPs define the scope of work for the project, including the data quality objectives (DQOs), and QA/QC. Not all monitoring programs, however, operate with QAPPs oriented to EPA guidance. DEM may receive and use data from such programs, but is obligated to document quality assurance if the data is relied upon for making decisions in the assessment of water quality, most notably, for development of the category 5 list of impaired waters. Water quality monitoring data and information must follow EPA's Quality Assurance/Quality Control (QA/QC) guidelines as documented in EPA New England's *Quality Assurance Project Plan Program Guidance* (USEPA 2005b), to be utilized in the development of RI's Impaired Waters List (category 5).

Consistent with RIDEM's Quality Management Plan and EPA requirements, the Office of Water Resources has prepared a QAPP for the ambient river monitoring program which implements clean sampling techniques using trained personnel (including clean metals sampling protocol). The Office has also contracted with the RI HEALTH State Laboratories (HEALTH) to conduct the analyses which are performed in accordance with strict scientific standards set by the U.S. Environmental Protection Agency (EPA) and Food and Drug Administration (FDA). RIDEM/OWR and HEALTH have coordinated to obtain extremely low detection limits, especially for dissolved metals, to allow for a comprehensive review of data results.

Another area of considerable investment by RIDEM-OWR in recent years has been in the state's biological monitoring program. With EPA assistance and outside contractor support, a review of the Office of Water Resources' biological monitoring programs was completed in 2008. This review, which produced a number of recommendations, prompted the Office of Water Resources to accelerate action to advance its biological monitoring approach by moving from a reference station approach to a biological condition gradient approach to assess the biological conditions of the state's rivers and streams. As part of the 2010 assessment cycle, a systematic review of all biological monitoring data (collected between 2001 and 2008) along with habitat, flow, and watershed size information, was conducted to more accurately assess the biological (macroinvertebrate) conditions of RI rivers and streams. During this time RIDEM-OWR has been working with outside contractor support and EPA assistance, to develop a multi-metric biological condition index for RI rivers and streams. This recently completed project will allow for further refinement in assessments of the biological (macroinvertebrate) conditions of RI rivers and streams.

Much of the data available on the quality of the state's lakes is generated from the University of Rhode Island Watershed Watch program which has coordinated volunteer-based monitoring in lakes for 24 years. RIDEM-OWR financially supports this sizable volunteer-based water quality

monitoring effort which also collects data on selected tributary streams and coastal waters. Using this and other information collected by RIDEM staff, RIDEM contractors, and other organizations, RIDEM's Office of Water Resources has recently released a comprehensive report on the water quality of lakes, the occurrence of aquatic invasive species in lakes and the feasibility of instituting a boat sticker program as a means to generate funding for lake management. This report, completed pursuant to Rhode Island General Laws Section 42-17.1-2-34, entitled, "Rhode Island Freshwater Lakes and Ponds: Aquatic Invasive Plants and Water Quality Concerns", can be found on RIDEM's website at:  
<http://www.dem.ri.gov/programs/benviron/water/quality/surfwq/pdfs/lakes012.pdf>

The RIDEM-OWR also conducts program-specific monitoring activities including targeted water quality investigations of impaired waters, conducted in support of Total Maximum Daily Load (TMDLs), bacteriological monitoring of shellfish growing areas and effluent monitoring of wastewater discharges. Since 2004 the RIDEM-OWR has also provided support to sustain fixed-site monitoring stations in Narragansett Bay via agreements with URI-Graduate School of Oceanography (URI-GSO). RIDEM-OWR along with the RI Water Resources Board also supports water quality and stream flow gage measurements via an agreement with USGS.

There is a variety of other data generated by programs outside of the Water Monitoring Strategy framework that are also used in the assessment process. With each 305(b) assessment cycle, the RIDEM Office of Water Resources actively solicits submittal of such data and information for consideration in developing the Integrated Report. For the 2012 assessment cycle the Department utilized data from the Narragansett Bay Commission, City of Newport, RIDEM-OWR TMDL program, RIDEM-OWR Aquatic Invasive Species monitoring, RIDEM-OWR Shellfish Monitoring Program, and the fixed-site monitoring network in Narragansett Bay. With release of the draft 2012 Integrated Lists for public review, the Department considers the 2012 assessment cycle to be completed. Any new data or information made available to the Department during the public comment period will be considered for inclusion in this cycle on a case by case basis. In general, data and information made available at this time will be evaluated for use during the 2014 assessment cycle and development of the 2014 Integrated Report.

### Terminology Used to Describe Impairments and Causes

A general explanation of the terminology used to describe impairments/causes is provided below:

- Biodiversity Impairments are characterized according to the type of biological data and evaluation that led to the listing. The cause terms used include: *Aquatic Macroinvertebrate Bioassessment*; *Benthic Macroinvertebrate Bioassessment*; *Sediment Toxicity Tests*; *Whole Effluent Toxicity (WET) Tests*. The two macroinvertebrate bioassessment terms are differentiated according to the evaluation that led to the listing: Benthic Macroinvertebrate Bioassessment is determined by sampling of riffles in wadeable streams/rivers, using the Rapid Bioassessment Protocol (RBP) whereas, Aquatic Macroinvertebrate Bioassessment is determined in deeper/non-wadeable rivers from the deployment of artificial substrates.

- Nutrient Impairments are specified according to the element causing the impairment. For freshwaters, *Total Phosphorus* is listed as the cause of the impairment and for saltwaters, *Total Nitrogen* is listed as the cause of the impairment.
- Pathogen Impairments are listed as *Enterococcus*, *fecal coliform* or *E. coli* to reflect the actual bacteria indicator that led to the listing.
- Mercury Impairments are characterized according to the media impacted as either fish tissue (*mercury in fish tissue*), water column (*mercury in water column*) or sediments (*mercury*).
- Total Toxics and Unknown Toxicity Impairments are characterized according to the type of biological data and evaluation that led to the listing. The cause terms used include: *Sediment Bioassays for Estuarine and Marine Waters*, *WET Tests*, *Ambient Bioassays – Chronic Aquatic Toxicity*.

### Observed Effects

The Integrated Report format and ADB (EPA’s Microsoft Access Assessment Database) allow for tracking monitoring observations that may indicate a decline in water quality. These monitoring observations, called Observed Effects, represent responses to pollutants or other stressors causing impairment. Such Observed Effects can include excess algal growth, chlorophyll a, taste and odor, color, sedimentation/ siltation, and noxious aquatic plants. In 303(d) Lists prepared prior to 2008, these terms were shown as causes of impairment. Beginning with the 2008 303(d) List, these terms were moved from causes of impairment to Observed Effects. There are two deviations to this general rule: (1) for waterbodies where the TMDL has been approved by US EPA for this cause, it is maintained as a cause to represent that the TMDL has or will address the effect; and (2) for some waterbodies the impairment is not related to a pollutant (for example, non-native aquatic plants and organisms, and flow); such effects are listed as Impairments Not Caused by a Pollutant (Category 4C) as outlined below. Many of the observed effects are responses to stressors associated with nutrient enrichment. In all cases, where the response term was redefined as an Observed Effect, the nutrient related cause (Total Phosphorus or Total Nitrogen) was maintained as a cause of impairment for the waterbody.

### Impairments Not Caused by a Pollutant

In some instances a waterbody may be considered impaired for causes that are not pollutants and therefore a TMDL is not required nor the appropriate approach to address the impairment. Such causes include flow, aquatic plants – native and non-native aquatic plants, and non-native fish, shellfish or zooplankton. These impairments have been identified for tracking purposes and will be addressed by other programs. Waters that have one of the observed impairments described above and no other causes of impairment are placed in Category 4C (Waters impaired but not by a pollutant).

### **303(d) List Overview**

The 303(d) List identifies waterbodies within the State, which are not currently meeting Rhode Island Water Quality Standards, and require a TMDL be developed addressing the identified

water quality impairment or pollutant. This list is compiled by RIDEM's Office of Water Resources (OWR) and is based upon the most recent comprehensive assessment of water quality conditions, as described above. The 303(d) list establishes a scheduled time frame for development of TMDLs. As such, the 303(d) list is used to help prioritize the State's water quality monitoring and restoration planning activities. It is important to note that the scheduling is not necessarily representative of the severity of water quality impacts, but rather reflective of the priority given for TMDL development with consideration to shellfishing waters, drinking water supplies and other priority areas identified by partner agencies and organizations, or the public.

The 303(d) list reflects the dynamic process of managing the quality of the state's waters. As data gaps have been filled and the geographic coverage and/or scope of monitoring efforts expanded, both the number of new waterbodies and new impairments (for waterbodies previously listed for other pollutants) on the 303d list has increased. Concurrently, actual water quality improvements in response to upgrades at wastewater treatment facilities or other pollution control efforts as well as refinements in sampling and analytical techniques, and assessment protocol have resulted in removing or de-listing of waterbody impairments. Because many of the state's waterbodies are impaired for multiple parameters, waterbodies may still appear on the 303d list despite these improvements. Additions to and deletions from the 303(d) list are made as new monitoring data become available - revealing whether water quality standards are being met or not.

### **Broad Observations on the 2012 303(d) list**

Assessments were completed on a total of 880 assessment units (AUs or WBIDs) in the 2012 assessment cycle. Of these, 120 assessment units or 96 named waterbodies have at least one impairment in need of a TMDL, and are included on the state's 2012 303(d) list. This compares with 162 assessment units and 133 named waterbodies identified on the 2010 303(d) list. For 2012, the majority of the impaired waters are rivers (61 WBIDs), followed by estuarine waters (34 WBIDs) and lakes (25 WBIDs). As previously mentioned, the 303d list reflects ongoing water quality management activities and priorities. Changes from the 2010 303d list to the 2012 303d list include the removal (or de-listing) of several waterbody impairments as described in greater detail below, the addition of several impairments, and the shifting of time schedules for completion of TMDLs. The TMDL schedules presented in the 2012 303d list reflect the state's ongoing water pollution control strategies, as well as the state's current capacity to collect the necessary data and information needed to develop TMDLs.

### De-listed Impairments

The reasons for "de-listing" a waterbody impairment and removing it from the 303(d) list (Category 5) include:

- TMDL for the impairment has been completed and approved by EPA.
- Other pollution control requirements are reasonably expected to result in attainment of the water quality standard associated with the impairment.
- The impairment is not caused by a pollutant.
- Current monitoring data indicated that the water quality standard for the impairment is now being met; or
- Original basis for listing was incorrect.

As described previously, if other impairments exist, the waterbody will continue to appear on the 303(d) list (Category 5), and any approved TMDLs and/or pollution control requirements in place which address the waterbody's other identified impairments are noted. The following tables list the waterbody impairments de-listed during the 2012 assessment cycle because current data indicate the water quality standard for the impairment is now being met. These are further described in the Delisting Document.

| <b>Impairments De-Listed Because Water Quality Standard Is Now Being Met</b> |                     |                     |
|------------------------------------------------------------------------------|---------------------|---------------------|
| Waterbody Name                                                               | Waterbody ID Number | Cause of Impairment |
| Sandy Pond (S. of Airport) (Little Pond)                                     | RI0007024L-01       | Fecal Coliform      |
| Unnamed Tribs to Slack Reservoir                                             | RI0002007R-15       | Enterococcus        |

### Progress in Water Quality Restoration - Rhode Island's TMDL Program

To date, the Office of Water Resources has completed TMDLs addressing a total of 168 related impairments/causes on 159 assessment units (WBIDs) which account for 134 distinctly named waterbodies. Since 2010, RIDEM-OWR working with an EPA contractor has completed a Statewide Bacteria TMDL addressing 57 bacteria impaired rivers, streams, and ponds. Current TMDL development activities are focused on water quality impairments on the Blackstone River (and Mill River, Peters River, Cherry Brook, and Scott Pond), Ten Mile River (and Slaters Park Pond, Central Pond, Turner Reservoir, and Omega Pond), and Buckeye Brook. All of these TMDLs are scheduled for completion in either 2012 or 2013.

The goal of RIDEM's TMDL program is to develop and implement studies aimed at restoring impaired waterbodies to an acceptable condition that meets water quality standards and supports their designated uses (e.g., shellfish harvesting, primary contact (swimming) and aquatic life support). There are several steps that are common to the development of most TMDLs:

- Identify the impaired waterbodies and pollutant(s) not meeting water quality standards.
- Assemble and review available data and information on the waterbody and its watershed.
- Identify stakeholders having an interest in the waterbody and/or watershed.
- Identify data gaps that need to be addressed to satisfactorily characterize water quality conditions and pollution sources causing the identified impairment, and other factors affecting the extent and severity of the impairment.
- If needed, develop and implement a monitoring plan (and Quality Assurance Project Plan [QAPP]) to collect additional data to further characterize water quality and pollution sources. As part of the assessment process, pollution sources are identified and their significance assessed including point sources, such as wastewater treatment facility discharges and stormwater outfalls, and non-point sources, such as septic systems and un-channelized runoff from agricultural and urbanized areas.
- Estimate the current amount of point and non-point sources entering the waterbody.
- Establish the TMDL water quality target (typically the applicable water quality standard) and estimate the allowable load of the pollutant that the waterbody can receive and still meet water quality standards (i.e., the total maximum daily load). A water quality model, based on

either computer simulations or empirical equations, may be used. For bacteria TMDLs, a concentration -based approach may be applied whereby a percentage reduction in fecal coliform concentrations is determined to represent necessary pollutant reductions.

- Allocate allowable loads between point and non-point sources, and a margin of safety.
- Develop an implementation plan identifying the specific actions necessary to achieve the waterbody's water quality target(s).
- Conduct public meeting(s) and formally solicit and respond to public comments.
- Submit the draft TMDL to EPA for formal approval.

Public participation is vital to making the TMDL process a success. Wherever possible, DEM utilizes a "watershed approach" in developing TMDLs - evaluating watersheds as a whole, and partnering with local officials and environmental organizations to identify problem areas, collect relevant water quality data, and identify potential pollution sources and solutions. DEM seeks input from stakeholders at key points in the TMDL development process. In the initial stages of developing the TMDL, stakeholders can play an important role by contributing both water quality data and their in-depth local knowledge of the watershed. This information helps DEM to better characterize conditions in the waterbody and more easily identify pollution sources in the watershed. At the midpoint of the process, typically after supplemental water quality monitoring has been completed, DEM may host a meeting to discuss the monitoring results and to identify potential pollution sources and possible solutions. Finally, once a draft TMDL document is completed, it is made available for public review and comment for a 30-day period, and a public meeting is held to present the TMDL report and to seek public input on the report's findings and implementation plan.

The following table shows the impairments de-listed during the 2012 assessment cycle, that is moved from Category 5/303(d) List to Category 4A, because a TMDL for the impairment has been completed and approved by EPA.

| <b>Impairments De-Listed Due to TMDL Approval by EPA (Category 4A)</b> |                     |                            |                           |
|------------------------------------------------------------------------|---------------------|----------------------------|---------------------------|
| <b>Waterbody Name</b>                                                  | <b>Waterbody ID</b> | <b>Cause of Impairment</b> | <b>TMDL Approval Date</b> |
| Ashaway River & Tribs                                                  | RI0008039R-02A      | Enterococcus               | 9/22/2011                 |
| Bailey's Brook & Tribs                                                 | RI0007035R-01       | Enterococcus               | 9/22/2011                 |
| Belleville Upper Pond Inlet                                            | RI0007027R-02       | Enterococcus               | 9/22/2011                 |
| Boyd Brook                                                             | RI0006013R-01       | Enterococcus               | 9/22/2011                 |
| Branch River & Tribs                                                   | RI0001002R-01A      | Enterococcus               | 9/22/2011                 |
| Branch River & Tribs                                                   | RI0001002R-01B      | Enterococcus               | 9/22/2011                 |
| Breakheart Brook & Tribs                                               | RI0008040R-02       | Enterococcus               | 9/22/2011                 |
| Brushy Brook & Tribs                                                   | RI0008040R-03B      | Fecal Coliform             | 9/22/2011                 |
| Burnt Swamp Brook & Tribs                                              | RI0001006R-06       | Enterococcus               | 9/22/2011                 |
| Canonchet Brook & Tribs                                                | RI0008040R-04B      | Enterococcus               | 9/22/2011                 |
| Chepachet River & Tribs                                                | RI0001002R-03       | Enterococcus               | 9/22/2011                 |
| Chickasheen Brook                                                      | RI0008039R-05A      | Enterococcus               | 9/22/2011                 |

| <b>Impairments De-Listed Due to TMDL Approval by EPA (Category 4A)<br/>(continued)</b> |                     |                            |                           |
|----------------------------------------------------------------------------------------|---------------------|----------------------------|---------------------------|
| <b>Waterbody Name</b>                                                                  | <b>Waterbody ID</b> | <b>Cause of Impairment</b> | <b>TMDL Approval Date</b> |
| Clear River                                                                            | RI0001002R-05D      | Enterococcus               | 9/22/2011                 |
| Clear River & Tribs                                                                    | RI0001002R-05C      | Enterococcus               | 9/22/2011                 |
| Crookfall Brook & Tribs                                                                | RI0001004R-01       | Enterococcus               | 9/22/2011                 |
| Cutler Brook & Tribs                                                                   | RI0002007R-02       | Enterococcus               | 9/22/2011                 |
| Dry Brook & Tribs                                                                      | RI0006018R-02A      | Enterococcus               | 9/22/2011                 |
| Dutemple Brook                                                                         | RI0008039R-30       | Enterococcus               | 9/22/2011                 |
| East Sneece Brook                                                                      | RI0001006R-03       | Enterococcus               | 9/22/2011                 |
| Frenchtown Brook & Tribs                                                               | RI0007028R-01       | Enterococcus               | 9/22/2011                 |
| Fresh Meadow Brook & Tribs                                                             | RI0010045R-01       | Enterococcus               | 9/22/2011                 |
| Hunt River                                                                             | RI0007028R-03D      | Enterococcus               | 9/22/2011                 |
| Huntinghouse Brook                                                                     | RI0006015R-11       | Enterococcus               | 9/22/2011                 |
| Jamestown Brook                                                                        | RI0007036R-01       | Fecal Coliform             | 9/22/2011                 |
| Latham Brook & Tribs                                                                   | RI0002007R-05       | Enterococcus               | 9/22/2011                 |
| Long Brook & Tribs                                                                     | RI0001006R-02       | Enterococcus               | 9/22/2011                 |
| Maidford River                                                                         | RI0007035R-02A      | Fecal Coliform             | 9/22/2011                 |
| Maidford River                                                                         | RI0007035R-02B      | Fecal Coliform             | 9/22/2011                 |
| Mashapaug Pond                                                                         | RI0006017L-06       | Fecal Coliform             | 9/22/2011                 |
| Meadow Brook & Tribs                                                                   | RI0008039R-13       | Enterococcus               | 9/22/2011                 |
| Meshanticut Brook & Tribs                                                              | RI0006017R-02       | Enterococcus               | 9/22/2011                 |
| Mile Brook                                                                             | RI0008039R-14       | Enterococcus               | 9/22/2011                 |
| Moosup River & Tribs                                                                   | RI0005011R-03       | Enterococcus               | 9/22/2011                 |
| Moshassuck River & Tribs                                                               | RI0003008R-01A      | Enterococcus               | 9/22/2011                 |
| Moshassuck River & Tribs                                                               | RI0003008R-01B      | Enterococcus               | 9/22/2011                 |
| Moswansicut Stream                                                                     | RI0006015R-16       | Escherichia coli           | 9/22/2011                 |
| Nooseneck River & Tribs                                                                | RI0006012R-05       | Enterococcus               | 9/22/2011                 |
| Paradise Brook                                                                         | RI0007035R-03       | Fecal Coliform             | 9/22/2011                 |
| Parmenter Brook & Tribs                                                                | RI0008039R-37       | Enterococcus               | 9/22/2011                 |
| Pascoag River                                                                          | RI0001002R-09       | Enterococcus               | 9/22/2011                 |
| Pawcatuck River & Tribs                                                                | RI0008039R-18B      | Enterococcus               | 9/22/2011                 |
| Pawcatuck River & Tribs                                                                | RI0008039R-18C      | Enterococcus               | 9/22/2011                 |
| Pawtuxet River South Branch                                                            | RI0006014R-04B      | Enterococcus               | 9/22/2011                 |
| Phillips Brook & Tribs                                                                 | RI0008040R-14       | Enterococcus               | 9/22/2011                 |
| Roger Williams Park Ponds                                                              | RI0006017L-05       | Fecal Coliform             | 9/22/2011                 |
| Sandhill Brook & Tribs                                                                 | RI0007028R-05       | Fecal Coliform             | 9/22/2011                 |
| Simmons Brook & Tribs                                                                  | RI0006018R-04       | Enterococcus               | 9/22/2011                 |
| Stillwater River & Tribs                                                               | RI0002007R-09       | Enterococcus               | 9/22/2011                 |
| Sucker Brook                                                                           | RI0007037R-01       | Enterococcus               | 9/22/2011                 |
| Taney Brook                                                                            | RI0008039R-23       | Enterococcus               | 9/22/2011                 |
| Tarkiln Brook & Tribs                                                                  | RI0001002R-13B      | Enterococcus               | 9/22/2011                 |
| Tomaquag Brook & Tribs                                                                 | RI0008039R-24       | Enterococcus               | 9/22/2011                 |

| <b>Impairments De-Listed Due to TMDL Approval by EPA (Category 4A)<br/>(continued)</b> |                     |                            |                           |
|----------------------------------------------------------------------------------------|---------------------|----------------------------|---------------------------|
| <b>Waterbody Name</b>                                                                  | <b>Waterbody ID</b> | <b>Cause of Impairment</b> | <b>TMDL Approval Date</b> |
| Tribs to Tiogue Lake                                                                   | RI0006014R-05       | Enterococcus               | 9/22/2011                 |
| West River & Tribs                                                                     | RI0003008R-03B      | Enterococcus               | 9/22/2011                 |
| White Horn Brook & Tribs                                                               | RI0008039R-27B      | Enterococcus               | 9/22/2011                 |
| Windsor Brook & Tribs                                                                  | RI0006015R-30       | Enterococcus               | 9/22/2011                 |
| Wood River & Tribs                                                                     | RI0008040R-16A      | Enterococcus               | 9/22/2011                 |

### New Impairments

The new waterbody impairments added to the 2012 303d list are as follows:

| <b>New Impairments included on the 2010 303(d) List</b> |                            |                            |
|---------------------------------------------------------|----------------------------|----------------------------|
| <b>Waterbody Name</b>                                   | <b>Waterbody ID number</b> | <b>Cause of Impairment</b> |
| Blackstone River                                        | RI0001003R-01B             | Lead                       |
| Clear River & Tribs                                     | RI0001002R-05C             | Lead                       |
| Ten Mile River & Tribs                                  | RI0004009R-01A             | Fecal Coliform             |
|                                                         |                            | Phosphorus (Total)         |

### Re-assessment of impairments listed in Category 4B

In the 2008 assessment cycle, the Office of Water Resources moved two impairments associated with four waterbody segments in Mt. Hope Bay from Category 5 (303(d) list) to Category 4B (Other pollution control requirements are reasonably expected to result in attainment of the water quality standard associated with the impairment). The impairments and associated waterbody segments are listed below. Note, while these impairments are considered Category 4B, these four waterbody segments are listed in Category 5 due to other impairments needing a TMDL.

| <b>Impairments De-listed in 2008 because Attainment of Water Quality Standards is Expected with Implementation of Other Pollution Control Requirements (4B)</b> |                            |                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------|
| <b>Waterbody Name</b>                                                                                                                                           | <b>Waterbody ID number</b> | <b>Cause of Impairment</b>               |
| Mt. Hope Bay                                                                                                                                                    | RI0007032E-01A             | Water Temperature, Fishes bioassessments |
| Mt. Hope Bay                                                                                                                                                    | RI0007032E-01B             | Water Temperature, Fishes bioassessments |
| Mt. Hope Bay                                                                                                                                                    | RI0007032E-01C             | Water Temperature, Fishes bioassessments |
| Mt. Hope Bay                                                                                                                                                    | RI0007032E-01D             | Water Temperature, Fishes bioassessments |

As described in detail in the 4B documentation provided with the 2008 Integrated Report, various water quality studies and trawling surveys conducted in Mt. Hope Bay documented the cause and effect relationship between Brayton Point Station's operations and thermal modifications and biodiversity impairments in Mt. Hope Bay.

On Oct. 6, 2003, Region I renewed Brayton Point Station's CWA permit. The permit set strict limits for the facility's withdrawal of cooling water from, and its discharges of heated wastewater to, Mount Hope Bay. The permit was appealed to EPA's Environmental Appeals Board (EAB) and on September 27, 2007, the EAB issued its decision upholding EPA's final permit. The company subsequently appealed the EAB ruling to the Federal Court in the Fourth Circuit, but on December 17, 2007 Dominion Power withdrew its legal challenges to the final permit issued in 2003 by EPA and the Commonwealth of Massachusetts. The Brayton Point NPDES Permit (No. MA0003654) specifically requires Brayton Point Station to:

- reduce total annual heat discharge to the bay by 96%, from 42 trillion BTUs/year to 1.7 trillion BTUs/year, and
- reduce water withdrawal from the bay by approximately 94%, from nearly 1 billion gallons/day to 56 million gallons/day.

Compliance with these permit limits will eliminate annual fishery losses by an estimated 94% and improve habitat quality.

EPA has issued an administrative order containing a schedule for meeting all NPDES permit limits within 36 months of obtaining all of the required construction and operating permits and approvals. Under this schedule, Brayton Point Station may comply with its NPDES permit limits as early as the spring of 2012. The administrative order sets interim effluent limits and milestones that the company will be responsible for meeting until full permit compliance is achieved. According to EPA Region 1 NPDES Permit Branch (e-mail communications with Damien Houlihan, April 4, 2012), Dominion is on track for completion by May 13, and is in compliance with its administrative order.

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## 2012 Category 5 Waters

### 303(d) List of Impaired Waters

#### Blackstone River Basin

##### Slatersville Reservoir

RI0001002L-09

Waterbody Size: 218.9 A

Waterbody Classification: B

Slatersville Reservoir. Burrillville, North Smithfield

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                     | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|---------------------------------------------|----------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Copper<br>Lead<br>Non-Native Aquatic Plants | 2020<br>2020         |                           | No TMDL required. Impairment is not a pollutant. |
| Fish Consumption             | Not Assessed                 |                                             |                      |                           |                                                  |
| Primary Contact Recreation   | Fully Supporting             |                                             |                      |                           |                                                  |
| Secondary Contact Recreation | Fully Supporting             |                                             |                      |                           |                                                  |

##### Branch River & Tribs

RI0001002R-01B

Waterbody Size: 4.063 M

Waterbody Classification: B

Branch River and tributaries from the outlet of the Slatersville Reservoir to the confluence with the Blackstone River.  
North Smithfield

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                                    | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|------------------------------------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Aquatic Macroinvertebrate Bioassessments<br>Copper<br>Lead | 2020<br>2020<br>2020 |                           |                |
| Fish Consumption             | Not Assessed                 |                                                            |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                                               |                      | 9/22/2011                 |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                                               |                      | 9/22/2011                 |                |

## Blackstone River Basin

### Clear River & Tribs

RI0001002R-05C

Waterbody Size: 9.737 M

Waterbody Classification: B

Clear River and tributaries from 1/2 mile upstream of Wilson Reservoir to 1 mile upstream of confluence with the Chepachet River (upstream of the Burrillville WWTF discharge point). Gloucester, Burrillville

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>           | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|-----------------------------------|----------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Lead<br>Non-Native Aquatic Plants | 2018                 |                           | No TMDL required. Impairment is not a pollutant. |
| Fish Consumption             | Not Assessed                 |                                   |                      |                           |                                                  |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                      |                      | 9/22/2011                 |                                                  |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                      |                      | 9/22/2011                 |                                                  |

### Clear River

RI0001002R-05D

Waterbody Size: 0.891 M

Waterbody Classification: B1

Clear River from the Burrillville WWTF discharge point to the confluence with the Chepachet River. Gloucester, Burrillville

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                                                                               | <i>TMDL Schedule</i>         | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate<br>Bioassessments<br>Cadmium<br>Copper<br>Lead<br>Non-Native Aquatic Plants | 2018<br>2018<br>2018<br>2018 |                           | No TMDL required. Impairment is not a pollutant. |
| Fish Consumption             | Not Assessed                 |                                                                                                       |                              |                           |                                                  |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                                                                                          |                              | 9/22/2011                 |                                                  |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                                                                                          |                              | 9/22/2011                 |                                                  |

### Pascoag River

RI0001002R-09

Waterbody Size: 0.848 M

Waterbody Classification: B

Pascoag River, Burrillville

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                     | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|---------------------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate<br>Bioassessments | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                                             |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                                |                      | 9/22/2011                 |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                                |                      | 9/22/2011                 |                |

## Blackstone River Basin

### Scott Pond

RI0001003L-01

Waterbody Size: 42.13 A

Waterbody Classification: B

Scott Pond. Lincoln

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Copper                  | 2013                 |                           |                |
|                              |                              | Oxygen, Dissolved       | 2013                 |                           |                |
|                              |                              | Phosphorus (Total)      | 2013                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

### Valley Falls Pond

RI0001003L-02

Waterbody Size: 37.97 A

Waterbody Classification: B1

Valley Falls Pond. Cumberland

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                                        |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|---------------------------------------------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Aquatic Macroinvertebrate Bioassessments | 2018                 |                           | Determine need for TMDL post WWTF upgrades.                                           |
|                              |                              | Lead                                     | 2022                 |                           | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |
|                              |                              | Oxygen, Dissolved                        | 2018                 |                           | Determine need for TMDL post WWTF upgrades.                                           |
|                              |                              | Phosphorus (Total)                       | 2018                 |                           | Determine need for TMDL post WWTF upgrades.                                           |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                                                                                       |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform                           | 2022                 |                           | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform                           | 2022                 |                           | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |

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## Blackstone River Basin

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### Blackstone River

RI0001003R-01A

Waterbody Size: 18.05 M

Waterbody Classification: B1

Blackstone River from the MA-RI border to the CSO outfall located at River and Samoset Streets in Central Falls.  
Woonsocket, North Smithfield, Cumberland, Lincoln and Central Falls.

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                       | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|-----------------------------------------------|----------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments      | 2018                 |                           | Determine need for TMDL post WWTF upgrades.      |
|                              |                              | Cadmium                                       | 2012                 |                           |                                                  |
|                              |                              | Eurasian Water Milfoil, Myriophyllum spicatum |                      |                           | No TMDL required. Impairment is not a pollutant. |
|                              |                              | Lead                                          | 2012                 |                           |                                                  |
|                              |                              | Non-Native Aquatic Plants                     |                      |                           | No TMDL required. Impairment is not a pollutant. |
|                              |                              | Oxygen, Dissolved                             | 2018                 |                           | Determine need for TMDL post WWTF upgrades.      |
|                              |                              | Phosphorus (Total)                            | 2018                 |                           | Determine need for TMDL post WWTF upgrades.      |
| Fish Consumption             | Not Supporting               | Mercury in Fish Tissue                        | 2022                 |                           |                                                  |
|                              |                              | PCB in Fish Tissue                            | 2022                 |                           |                                                  |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                                  | 2012                 |                           |                                                  |
|                              |                              | Fecal Coliform                                | 2012                 |                           |                                                  |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                                  | 2012                 |                           |                                                  |
|                              |                              | Fecal Coliform                                | 2012                 |                           |                                                  |

## Blackstone River Basin

### Blackstone River

RI0001003R-01B

Waterbody Size: 1.639 M

Waterbody Classification: B1{a}

Blackstone River from the CSO outfall located at River and Samoset streets in Central Falls to the Slater Mill Dam.  
Central Falls, Pawtucket.

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                                        |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|---------------------------------------------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2018                 |                           | Determine need for TMDL post WWTF upgrades.                                           |
|                              |                              | Cadmium                                  | 2012                 |                           |                                                                                       |
|                              |                              | Lead                                     | 2012                 |                           |                                                                                       |
|                              |                              | Oxygen, Dissolved                        | 2018                 |                           | Determine need for TMDL post WWTF upgrades.                                           |
|                              |                              | Phosphorus (Total)                       | 2018                 |                           | Determine need for TMDL post WWTF upgrades.                                           |
| Fish Consumption             | Not Supporting               | Mercury in Fish Tissue                   | 2022                 |                           |                                                                                       |
|                              |                              | PCB in Fish Tissue                       | 2022                 |                           |                                                                                       |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                             | 2022                 |                           | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |
|                              |                              | Fecal Coliform                           | 2022                 |                           | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                             | 2022                 |                           | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |
|                              |                              | Fecal Coliform                           | 2022                 |                           | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |

### Cherry Brook & Tribs

RI0001003R-02

Waterbody Size: 3.133 M

Waterbody Classification: B

Cherry Brook and tributaries. North Smithfield, Woonsocket

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Copper                  | 2012                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus            | 2012                 |                           |                |
|                              |                              | Fecal Coliform          | 2012                 |                           |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus            | 2012                 |                           |                |
|                              |                              | Fecal Coliform          | 2012                 |                           |                |

## Blackstone River Basin

### Mill River

RI0001003R-03

Waterbody Size: 0.918 M

Waterbody Classification: B

Mill River. Woonsocket

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Fully Supporting             |                         |                      |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus            | 2012                 |                           |                |
|                              |                              | Fecal Coliform          | 2012                 |                           |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus            | 2012                 |                           |                |
|                              |                              | Fecal Coliform          | 2012                 |                           |                |

### Peters River

RI0001003R-04

Waterbody Size: 0.783 M

Waterbody Classification: B

Peters River. Woonsocket

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Copper                  | 2012                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus            | 2012                 |                           |                |
|                              |                              | Fecal Coliform          | 2012                 |                           |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus            | 2012                 |                           |                |
|                              |                              | Fecal Coliform          | 2012                 |                           |                |

### Abbott Run Brook North & Tribs

RI0001006R-01A

Waterbody Size: 4.353 M

Waterbody Classification: AA

Abbott Run Brook North and tributaries. Cumberland

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Cadmium                 | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Public Drinking Water Supply | Not Assessed                 |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

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## Blackstone River Basin

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### Abbott Run Brook South & Tribs

RI0001006R-01B

Waterbody Size: 1.753 M

Waterbody Classification: AA

Abbott Run Brook South and tributaries. Cumberland

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Cadmium                 | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Public Drinking Water Supply | Not Assessed                 |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

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## Coastal Waters

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### Greenhill Pond

RI0010043E-02

Waterbody Size: 0.657 S

Waterbody Classification: SA

Green Hill Pond. South Kingstown and Charlestown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Oxygen, Dissolved       | 2020                 |                           |                |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |
| Shellfish Consumption        | Not Supporting               | Fecal Coliform          |                      | 2/16/2006                 |                |

### Silver Spring Lake

RI0010044L-02

Waterbody Size: 18.75 A

Waterbody Classification: B

Silver Spring Lake. North Kingstown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>   | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|---------------------------|----------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Non-Native Aquatic Plants |                      |                           | No TMDL required. Impairment is not a pollutant. |
|                              |                              | Phosphorus (Total)        | 2016                 |                           |                                                  |
| Fish Consumption             | Not Assessed                 |                           |                      |                           |                                                  |
| Primary Contact Recreation   | Fully Supporting             |                           |                      |                           |                                                  |
| Secondary Contact Recreation | Fully Supporting             |                           |                      |                           |                                                  |

### Saugatucket Pond

RI0010045L-01

Waterbody Size: 40.68 A

Waterbody Classification: B

Saugatucket Pond. South Kingstown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                     |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|----------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2016                 |                           | Record of Decision in place for Rosehill Landfill. |
|                              |                              | Phosphorus (Total)                       | 2016                 |                           |                                                    |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                                                    |
| Primary Contact Recreation   | Fully Supporting             |                                          |                      |                           |                                                    |
| Secondary Contact Recreation | Fully Supporting             |                                          |                      |                           |                                                    |

## Coastal Waters

### Silver Lake

RI0010045L-05

Waterbody Size: 44.78 A

Waterbody Classification: B

Silver Lake. South Kingstown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Phosphorus (Total)      | 2016                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

### Mitchell Brook

RI0010045R-03B

Waterbody Size: 0.679 M

Waterbody Classification: B

Mitchell Brook from the Rose Hill Landfill to the confluence with the Saugatucket River. South Kingstown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                     |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|----------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2016                 |                           | Record of Decision in place for Rosehill Landfill. |
|                              |                              | Iron                                     | 2016                 |                           | Record of Decision in place for Rosehill Landfill. |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                                                    |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform                           |                      | 7/31/2003                 |                                                    |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform                           |                      | 7/31/2003                 |                                                    |

### Saugatucket River & Tribs

RI0010045R-05B

Waterbody Size: 4.006 M

Waterbody Classification: B

Saugatucket River and Tributaries from the Rose Hill Landfill property to the dam at Main Street in Wakefield. South Kingstown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                     |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|----------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2016                 |                           | Record of Decision in place for Rosehill Landfill. |
|                              |                              | Iron                                     | 2016                 |                           | Record of Decision in place for Rosehill Landfill. |
|                              |                              | Non-Native Aquatic Plants                |                      |                           | No TMDL required. Impairment is not a pollutant.   |
| Fish Consumption             | Fully Supporting             |                                          |                      |                           |                                                    |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform                           |                      | 7/31/2003                 |                                                    |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform                           |                      | 7/31/2003                 |                                                    |

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## Coastal Waters

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### Great Salt Pond, Trim's Pond and Harbor Pond

RI0010046E-01C

Waterbody Size: 0.11 S

Waterbody Classification: SA{b}

Trim's Pond and Harbor Pond. New Shoreham

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Fully Supporting             |                         |                      |                           |                |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |
| Shellfish Consumption        | Not Supporting               | Fecal Coliform          | 2018                 |                           |                |

### Lily Pond

RI0010047L-02

Waterbody Size: 29.13 A

Waterbody Classification: A

Lily Pond. Newport

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>   | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|---------------------------|----------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Non-Native Aquatic Plants |                      |                           | No TMDL required. Impairment is not a pollutant. |
|                              |                              | Phosphorus (Total)        | 2016                 |                           |                                                  |
| Fish Consumption             | Not Assessed                 |                           |                      |                           |                                                  |
| Primary Contact Recreation   | Fully Supporting             |                           |                      |                           |                                                  |
| Secondary Contact Recreation | Fully Supporting             |                           |                      |                           |                                                  |

### Round Pond (Little Compton)

RI0010048L-02

Waterbody Size: 34.25 A

Waterbody Classification: A

Round Pond. Little Compton

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Phosphorus (Total)      | 2016                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

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## Coastal Waters

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### Dundery Brook

RI0010048R-02C

Waterbody Size: 1.072 M

Waterbody Classification: B

Dundery Brook from 1 mile downstream of Meetinghouse Lane to Briggs Marsh Pond. Little Compton

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                     | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|---------------------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate<br>Bioassessments | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                                             |                      |                           |                |
| Primary Contact Recreation   | Not Assessed                 |                                             |                      |                           |                |
| Secondary Contact Recreation | Not Assessed                 |                                             |                      |                           |                |

## Moshassuck River Basin

### Barney Pond

RI0003008L-02

Waterbody Size: 23.84 A

Waterbody Classification: B

Barney Pond. Lincoln

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>   | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|---------------------------|----------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Non-Native Aquatic Plants |                      |                           | No TMDL required. Impairment is not a pollutant. |
|                              |                              | Phosphorus (Total)        | 2016                 |                           |                                                  |
| Fish Consumption             | Not Assessed                 |                           |                      |                           |                                                  |
| Primary Contact Recreation   | Not Assessed                 |                           |                      |                           |                                                  |
| Secondary Contact Recreation | Not Assessed                 |                           |                      |                           |                                                  |

### Moshassuck River & Tribs

RI0003008R-01B

Waterbody Size: 2.138 M

Waterbody Classification: B

Moshassuck River and tributaries from Barney Pond outlet to first CSO discharge point at Weeden Street Bridge.  
Lincoln, Central Falls, Pawtucket.

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                             |                      | 9/22/2011                 |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                             |                      | 9/22/2011                 |                |

### Moshassuck River & Tribs

RI0003008R-01C

Waterbody Size: 4.562 M

Waterbody Classification: B{a}

Moshassuck River and tributaries from the first CSO discharge point at Weeden Street Bridge to the confluence with the  
Woonasquatucket River. Central Falls, Pawtucket, Providence

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                                        |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|---------------------------------------------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2022                 |                           |                                                                                       |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                                                                                       |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                             | 2022                 |                           | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                             | 2022                 |                           | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |

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## Moshassuck River Basin

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### West River & Tribs

RI0003008R-03B

Waterbody Size: 9.038 M

Waterbody Classification: B

West River and tributaries from the outlet of Wenscott Reservoir, including Geneva and Whipple ponds, to the first CSO discharge point located south of the Branch Avenue crossing, off of Vandewater Street. North Providence, Providence

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                             |                      | 9/22/2011                 |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                             |                      | 9/22/2011                 |                |

### West River & Tribs

RI0003008R-03C

Waterbody Size: 3.414 M

Waterbody Classification: B{a}

West River and tributaries from the first CSO discharge point located south of the Branch Avenue crossing, off of Vandewater Street to the confluence with the Moshassuck River. Providence

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                                        |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|---------------------------------------------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2022                 |                           |                                                                                       |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                                                                                       |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                             | 2022                 |                           | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                             | 2022                 |                           | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |

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## Narragansett Basin

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### Seekonk River

RI0007019E-01

Waterbody Size: 1.015 S

Waterbody Classification: SB1{a}

Seekonk River from the Slater Mill Dam at Main Street in Pawtucket to India Point in Providence. Pawtucket, Providence and East Providence.

| <i><u>Use Description</u></i> | <i><u>Use Attainment Status</u></i> | <i><u>Cause/Impairment</u></i> | <i><u>TMDL Schedule</u></i> | <i><u>TMDL Approval Date</u></i> | <i><u>Comment</u></i>                                                                 |
|-------------------------------|-------------------------------------|--------------------------------|-----------------------------|----------------------------------|---------------------------------------------------------------------------------------|
| Fish and Wildlife habitat     | Not Supporting                      | Nitrogen (Total)               | 2016                        |                                  | Determine need for TMDL post WWTF upgrades.                                           |
|                               |                                     | Oxygen, Dissolved              | 2016                        |                                  | Determine need for TMDL post WWTF upgrades.                                           |
| Fish Consumption              | Fully Supporting                    |                                |                             |                                  |                                                                                       |
| Primary Contact Recreation    | Not Supporting                      | Fecal Coliform                 | 2022                        |                                  | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |
| Secondary Contact Recreation  | Not Supporting                      | Fecal Coliform                 | 2022                        |                                  | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |

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### Providence River

RI0007020E-01A

Waterbody Size: 4.73 S

Waterbody Classification: SB{a}

Providence River south of a line from a point on shore due east of Naushon Avenue in Warwick to the western terminus of Beach Road in East Providence and north of a line from Conimicut Point in Warwick to Old Tower at Nayatt Point in Barrington. East Providence, Warwick, Barrington

| <i><u>Use Description</u></i>             | <i><u>Use Attainment Status</u></i> | <i><u>Cause/Impairment</u></i> | <i><u>TMDL Schedule</u></i> | <i><u>TMDL Approval Date</u></i> | <i><u>Comment</u></i>                                                                 |
|-------------------------------------------|-------------------------------------|--------------------------------|-----------------------------|----------------------------------|---------------------------------------------------------------------------------------|
| Fish and Wildlife habitat                 | Not Supporting                      | Nitrogen (Total)               | 2016                        |                                  | Determine need for TMDL post WWTF upgrades.                                           |
|                                           |                                     | Oxygen, Dissolved              | 2016                        |                                  | Determine need for TMDL post WWTF upgrades.                                           |
| Fish Consumption                          | Fully Supporting                    |                                |                             |                                  |                                                                                       |
| Primary Contact Recreation                | Not Supporting                      | Fecal Coliform                 | 2022                        |                                  | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |
| Secondary Contact Recreation              | Not Supporting                      | Fecal Coliform                 | 2022                        |                                  | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |
| Shellfish Controlled Relay and Depuration | Fully Supporting                    |                                |                             |                                  |                                                                                       |

## Narragansett Basin

### Providence River

RI0007020E-01B

Waterbody Size: 3.61 S

Waterbody Classification: SB1{a}

Providence River from its confluence with the Moshassuck and Woonasquatucket Rivers in Providence south and south of a line from India Point to Bold Point (across the mouth of the Seekonk River), to a line extending from a point on shore due east of Naushon Avenue in Warwick to the western terminus of Beach Road in East Providence, including Watchemoket Cove. East Providence, Providence, Cranston and Warwick

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                                        |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|---------------------------------------------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Nitrogen (Total)        | 2016                 |                           | Determine need for TMDL post WWTF upgrades.                                           |
|                              |                              | Oxygen, Dissolved       | 2016                 |                           | Determine need for TMDL post WWTF upgrades.                                           |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                                                                                       |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform          | 2022                 |                           | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform          | 2022                 |                           | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |

### Prince's Pond (Tiffany Pond)

RI0007020E-02

Waterbody Size: 0.013 S

Waterbody Classification: SA

Prince's Pond (Tiffany Pond). Barrington

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                                               |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------------------------------------------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Oxygen, Dissolved       | 2018                 |                           | Re-classified with a saltwater classification. Previously identified as WBID# RI0007020L-06. |
|                              |                              | Phosphorus (Total)      | 2018                 |                           | Re-classified with a saltwater classification. Previously identified as WBID# RI0007020L-06. |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                                                                                              |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                                                                                              |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                                                                                              |
| Shellfish Consumption        | Not Assessed                 |                         |                      |                           |                                                                                              |

## Narragansett Basin

### Runnins River & Tribs

RI0007021R-01

Waterbody Size: 5.179 M

Waterbody Classification: B

Runnins River and tributaries from the MA-RI border to the Mobil Dam in East Providence. Providence, East Providence

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2018                 |                           |                |
|                              |                              | Lead                                     | 2018                 |                           |                |
|                              |                              | Oxygen, Dissolved                        | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform                           |                      | 9/30/2002                 |                |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform                           |                      | 9/30/2002                 |                |

### Palmer River

RI0007022E-01A

Waterbody Size: 0.733 S

Waterbody Classification: SA

Palmer River from the MA-RI border to the East Bay Bike Path trestle in Warren, approximately 2500 feet north of the confluence with the Barrington River. Warren, Barrington

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                              |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|---------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Nitrogen (Total)        | 2016                 |                           | Determine need for TMDL post WWTF upgrades. |
|                              |                              | Oxygen, Dissolved       | 2016                 |                           | Determine need for TMDL post WWTF upgrades. |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                                             |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform          |                      | 5/15/2002                 |                                             |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform          |                      | 5/15/2002                 |                                             |
| Shellfish Consumption        | Not Supporting               | Fecal Coliform          |                      | 5/15/2002                 |                                             |

## Narragansett Basin

### Upper Narragansett Bay

RI0007024E-01

Waterbody Size: 14.93 S

Waterbody Classification: SA

Upper Narra. Bay from Conimicut Pt-Nayatt Pt boundary south, including waters south of a line from Adams Pt, Barrington to Jacobs Pt, Warren, to a line from Warwick Point in Warwick through Providence Point on Prudence Island, to Popasquash Point in Bristol. Warwick, Barrington, Bristol, Portsmouth, Warren

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                                        |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|---------------------------------------------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Nitrogen (Total)        | 2016                 |                           | Determine need for TMDL post WWTF upgrades.                                           |
|                              |                              | Oxygen, Dissolved       | 2016                 |                           | Determine need for TMDL post WWTF upgrades.                                           |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                                                                                       |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                                                                                       |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                                                                                       |
| Shellfish Consumption        | Not Supporting               | Fecal Coliform          | 2022                 |                           | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |

### Buckeye Brook & Tribs

RI0007024R-01

Waterbody Size: 3.687 M

Waterbody Classification: B

Buckeye Brook and tributaries. Warwick

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2013                 |                           |                |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                             |                      | 12/23/2008                |                |
|                              |                              | Fecal Coliform                           |                      | 12/23/2008                |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                             |                      | 12/23/2008                |                |
|                              |                              | Fecal Coliform                           |                      | 12/23/2008                |                |

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## Narragansett Basin

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### Apponaug Cove

RI0007025E-01

Waterbody Size: 0.316 S

Waterbody Classification: SB

Apponaug Cove waters north and west of a line from the RIDEM range marker located at the end of Neptune Lane in Chepiwanoxet to the RIDEM range marker located at Cedar Tree Point. Warwick

| <i>Use Description</i>                    | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                          |
|-------------------------------------------|------------------------------|-------------------------|----------------------|---------------------------|-------------------------------------------------------------------------|
| Fish and Wildlife habitat                 | Not Supporting               | Nitrogen (Total)        | 2016                 |                           | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
|                                           |                              | Oxygen, Dissolved       | 2016                 |                           | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
| Fish Consumption                          | Fully Supporting             |                         |                      |                           |                                                                         |
| Primary Contact Recreation                | Not Supporting               | Fecal Coliform          |                      | 2/16/2006                 |                                                                         |
| Secondary Contact Recreation              | Not Supporting               | Fecal Coliform          |                      | 2/16/2006                 |                                                                         |
| Shellfish Controlled Relay and Depuration | Fully Supporting             |                         |                      |                           |                                                                         |

### Brushneck Cove

RI0007025E-02

Waterbody Size: 0.118 S

Waterbody Classification: SA

Brushneck Cove. Warwick

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                          |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|-------------------------------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Nitrogen (Total)        | 2016                 |                           | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
|                              |                              | Oxygen, Dissolved       | 2016                 |                           | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                                                                         |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                                                                         |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                                                                         |
| Shellfish Consumption        | Not Supporting               | Fecal Coliform          |                      | 2/16/2006                 |                                                                         |

## Narragansett Basin

### Buttonwoods Cove

RI0007025E-03

Waterbody Size: 0.077 S

Waterbody Classification: SA

Buttonwoods Cove. Warwick

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                          |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|-------------------------------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Nitrogen (Total)        | 2016                 |                           | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
|                              |                              | Oxygen, Dissolved       | 2016                 |                           | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                                                                         |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                                                                         |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                                                                         |
| Shellfish Consumption        | Not Supporting               | Fecal Coliform          |                      | 2/16/2006                 |                                                                         |

### Greenwich Bay

RI0007025E-04A

Waterbody Size: 3.04 S

Waterbody Classification: SA

Greenwich Bay waters north and west of a line from the eastern extremity of Sandy Pt. on Potowomut Neck, East Greenwich, to the flag pole located at the Warwick Country Club on Warwick Neck, east of a line from the northerly point of Long Point to the southerly point of Chepiwanoxet Point, and east of a line from the northern extremity of Chepiwanoxet Point to the extension of Cooper Road located in the Buttonwoods section of Warwick. Warwick, East Greenwich

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                          |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|-------------------------------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Nitrogen (Total)        | 2016                 |                           | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
|                              |                              | Oxygen, Dissolved       | 2016                 |                           | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                                                                         |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                                                                         |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                                                                         |
| Shellfish Consumption        | Not Supporting               | Fecal Coliform          |                      | 2/16/2006                 |                                                                         |

## Narragansett Basin

### Greenwich Bay

RI0007025E-04B

Waterbody Size: 0.459 S

Waterbody Classification: SA

Greenwich Bay waters west of a line from the northern extremity of Chepiwanoxet Point to the extension of Cooper Road located in the Buttonwoods section of Warwick, and east of a line from the RIDEM range marker located at the end of Neptune Lane in Chepiwanoxet to the RIDEM range marker located at Cedar Tree Point. Warwick

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                          |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|-------------------------------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Nitrogen (Total)        | 2016                 |                           | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
|                              |                              | Oxygen, Dissolved       | 2016                 |                           | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                                                                         |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                                                                         |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                                                                         |
| Shellfish Consumption        | Not Supporting               | Fecal Coliform          |                      | 2/16/2006                 |                                                                         |

### Greenwich Cove

RI0007025E-05A

Waterbody Size: 0.3 S

Waterbody Classification: SB1

Greenwich Cove south of Long Point. East Greenwich, Warwick

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                          |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|-------------------------------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Nitrogen (Total)        | 2016                 |                           | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
|                              |                              | Oxygen, Dissolved       | 2016                 |                           | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                                                                         |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform          |                      | 2/16/2006                 |                                                                         |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform          |                      | 2/16/2006                 |                                                                         |

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## Narragansett Basin

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### Greenwich Cove

RI0007025E-05B

Waterbody Size: 0.149 S

Waterbody Classification: SB

Greenwich Cove north of Long Point and west of a line extending from the northerly point of Long Point to the southerly point of Chepiwanoxet Peninsula. East Greenwich, Warwick

| <i><u>Use Description</u></i>             | <i><u>Use Attainment Status</u></i> | <i><u>Cause/Impairment</u></i> | <i><u>TMDL Schedule</u></i> | <i><u>TMDL Approval Date</u></i> | <i><u>Comment</u></i>                                                   |
|-------------------------------------------|-------------------------------------|--------------------------------|-----------------------------|----------------------------------|-------------------------------------------------------------------------|
| Fish and Wildlife habitat                 | Not Supporting                      | Nitrogen (Total)               | 2016                        |                                  | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
|                                           |                                     | Oxygen, Dissolved              | 2016                        |                                  | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
| Fish Consumption                          | Fully Supporting                    |                                |                             |                                  |                                                                         |
| Primary Contact Recreation                | Fully Supporting                    |                                |                             |                                  |                                                                         |
| Secondary Contact Recreation              | Fully Supporting                    |                                |                             |                                  |                                                                         |
| Shellfish Controlled Relay and Depuration | Fully Supporting                    |                                |                             |                                  |                                                                         |

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### Warwick Cove

RI0007025E-06A

Waterbody Size: 0.199 S

Waterbody Classification: SB

Warwick Cove north of a line from the easternmost extension of Burr Avenue on Horse Neck to the westernmost extension of Meadow Avenue on the east shore. Warwick

| <i><u>Use Description</u></i>             | <i><u>Use Attainment Status</u></i> | <i><u>Cause/Impairment</u></i> | <i><u>TMDL Schedule</u></i> | <i><u>TMDL Approval Date</u></i> | <i><u>Comment</u></i>                                                   |
|-------------------------------------------|-------------------------------------|--------------------------------|-----------------------------|----------------------------------|-------------------------------------------------------------------------|
| Fish and Wildlife habitat                 | Not Supporting                      | Nitrogen (Total)               | 2016                        |                                  | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
|                                           |                                     | Oxygen, Dissolved              | 2016                        |                                  | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
| Fish Consumption                          | Fully Supporting                    |                                |                             |                                  |                                                                         |
| Primary Contact Recreation                | Not Supporting                      | Fecal Coliform                 |                             | 2/16/2006                        |                                                                         |
| Secondary Contact Recreation              | Not Supporting                      | Fecal Coliform                 |                             | 2/16/2006                        |                                                                         |
| Shellfish Controlled Relay and Depuration | Fully Supporting                    |                                |                             |                                  |                                                                         |

## Narragansett Basin

### Warwick Cove

RI0007025E-06B

Waterbody Size: 0.034 S

Waterbody Classification: SA

Warwick Cove south of a line from the easternmost extension of Burr Avenue on Horse Neck to the southernmost point of the Harbor Light marina parking lot on the east shore and north of a line from the southeastern most riprap jetty at the entrance of Warwick Cove, located at the southeastern end of Oakland Beach to the southern (landward) end of Dorr's Dock on Warwick Neck, excluding the waters noted in RI0007025E-06C. Warwick

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                          |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|-------------------------------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Nitrogen (Total)        | 2016                 |                           | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
|                              |                              | Oxygen, Dissolved       | 2016                 |                           | Determine need for TMDL post SAM Plan implementation and WWTF upgrades. |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                                                                         |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                                                                         |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                                                                         |
| Shellfish Consumption        | Not Supporting               | Fecal Coliform          |                      | 2/16/2006                 |                                                                         |

### Hardig Brook & Tribs

RI0007025R-01

Waterbody Size: 5.477 M

Waterbody Classification: B

Hardig Brook and tributaries. West Warwick, Warwick

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Lead                    | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform          |                      | 2/16/2006                 |                |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform          |                      | 2/16/2006                 |                |

### Maskerchugg River

RI0007025R-03

Waterbody Size: 4.003 M

Waterbody Classification: B

Maskerchugg River. Warwick, East Greenwich

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Cadmium                 | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform          |                      | 2/16/2006                 |                |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform          |                      | 2/16/2006                 |                |

## Narragansett Basin

### Allen's Harbor

RI0007027E-01A

Waterbody Size: 0.092 S

Waterbody Classification: SA{b}

Allen's Harbor waters north of a line extending from the westernmost indentation of the cove which is immediately north of the easternmost curve of Westcott Road to the northernmost point of land on the south side of the mouth of Allen's Harbor. North Kingstown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                           | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|---------------------------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Assessed                 |                                                   |                      |                           |                |
| Fish Consumption             | Fully Supporting             |                                                   |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                                                   |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                                                   |                      |                           |                |
| Shellfish Consumption        | Not Supporting               | Sediment Bioassays for Estuarine and Marine Water | 2022                 |                           |                |

### Bissel Cove

RI0007027E-02A

Waterbody Size: 0.107 S

Waterbody Classification: SA

Bissel Cove waters west of a line from the RIDEM Range marker on the north shore of Bissel Cove in the vicinity of 'The Homestead', to the range marker on the southern shore of Bissel Cove. North Kingstown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Assessed                 |                         |                      |                           |                |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                |
| Primary Contact Recreation   | Not Assessed                 |                         |                      |                           |                |
| Secondary Contact Recreation | Not Assessed                 |                         |                      |                           |                |
| Shellfish Consumption        | Not Supporting               | Fecal Coliform          | 2018                 |                           |                |

### West Passage

RI0007027E-03J

Waterbody Size: 6.05 S

Waterbody Classification: SA

West Passage waters south of a line from the eastern extremity of Sandy Point on Potowomut Neck, East Greenwich, to the flagpole located at the Warwick Country club on Warwick Neck; south of a line from the southernmost extremity of Warwick Point on Warwick Neck, to the northernmost point on Prudence Island (Providence Point); north of a line extending from the shore in the vicinity of High Bank Ave, North Kingstown, running due east through buoy N"6" and terminating at the shoreline of Prudence Island. Warwick, East Greenwich, North Kingstown, Portsmouth.

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                              |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|---------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Oxygen, Dissolved       | 2016                 |                           | Determine need for TMDL post WWTF upgrades. |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                                             |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                                             |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                                             |
| Shellfish Consumption        | Fully Supporting             |                         |                      |                           |                                             |

## Narragansett Basin

### West Passage

RI0007027E-03K

Waterbody Size: 0.016 S

Waterbody Classification: SA

Fox Hill Pond in its entirety. Jamestown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Fully Supporting             |                         |                      |                           |                |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |
| Shellfish Consumption        | Not Supporting               | Fecal Coliform          | 2018                 |                           |                |

### West Passage

RI0007027E-03L

Waterbody Size: 0.079 S

Waterbody Classification: SA

Sheffield Cove waters in Jamestown south of a line from the range marker located at the western extension of Maple Avenue to the range marker located at the northernmost point of land on the opposite western shore at the entrance to the cove. Jamestown.

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Fully Supporting             |                         |                      |                           |                |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |
| Shellfish Consumption        | Not Supporting               | Fecal Coliform          | 2018                 |                           |                |

### Wickford Harbor

RI0007027E-04B

Waterbody Size: 0.338 S

Waterbody Classification: SB

Wickford Harbor including Mill Cove and the estuarine portion of Mill Creek, west of a line extending from the northern extremity of Big Rock Point to the southern extremity of Cornelius Island, and west and south of a line extending from the northern extremity of Cornelius Island, to a point 1000 feet north of Calf Neck. North Kingstown

| <i>Use Description</i>                    | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|-------------------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat                 | Not Supporting               | Oxygen, Dissolved       | 2018                 |                           |                |
| Fish Consumption                          | Fully Supporting             |                         |                      |                           |                |
| Primary Contact Recreation                | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation              | Fully Supporting             |                         |                      |                           |                |
| Shellfish Controlled Relay and Depuration | Fully Supporting             |                         |                      |                           |                |

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## Narragansett Basin

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### Potowomut River

RI0007028E-01A

Waterbody Size: 0.194 S

Waterbody Classification: SA

The waters of the Potowomut River west of a line from the RIDEM range marker (41 39.364' N and 71 24.947' W) on the northern shoreline to the southwestern landward end of the stone jetty and CRMC Dock #1971 on the opposite southern shoreline at 51 Pojac Point Road North Kingstown. East Greenwich, North Kingstown

| <i><u>Use Description</u></i> | <i><u>Use Attainment Status</u></i> | <i><u>Cause/Impairment</u></i> | <i><u>TMDL Schedule</u></i> | <i><u>TMDL Approval Date</u></i> | <i><u>Comment</u></i> |
|-------------------------------|-------------------------------------|--------------------------------|-----------------------------|----------------------------------|-----------------------|
| Fish and Wildlife habitat     | Not Assessed                        |                                |                             |                                  |                       |
| Fish Consumption              | Fully Supporting                    |                                |                             |                                  |                       |
| Primary Contact Recreation    | Fully Supporting                    |                                |                             |                                  |                       |
| Secondary Contact Recreation  | Fully Supporting                    |                                |                             |                                  |                       |
| Shellfish Consumption         | Not Supporting                      | Fecal Coliform                 | 2018                        |                                  |                       |

### Pierce Brook

RI0007028R-07

Waterbody Size: 1.689 M

Waterbody Classification: B

Pierce Brook. East Greenwich

| <i><u>Use Description</u></i> | <i><u>Use Attainment Status</u></i> | <i><u>Cause/Impairment</u></i> | <i><u>TMDL Schedule</u></i> | <i><u>TMDL Approval Date</u></i> | <i><u>Comment</u></i> |
|-------------------------------|-------------------------------------|--------------------------------|-----------------------------|----------------------------------|-----------------------|
| Fish and Wildlife habitat     | Not Assessed                        |                                |                             |                                  |                       |
| Fish Consumption              | Not Assessed                        |                                |                             |                                  |                       |
| Primary Contact Recreation    | Not Supporting                      | Fecal Coliform                 | 2014                        |                                  |                       |
| Secondary Contact Recreation  | Not Supporting                      | Fecal Coliform                 | 2014                        |                                  |                       |

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## Narragansett Basin

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### East Passage

RI0007029E-01C

Waterbody Size: 0.026 S

Waterbody Classification: SA

East Passage waters in the vicinity of McAlister Point. Middletown

| <i><u>Use Description</u></i> | <i><u>Use Attainment Status</u></i> | <i><u>Cause/Impairment</u></i>                    | <i><u>TMDL Schedule</u></i> | <i><u>TMDL Approval Date</u></i> | <i><u>Comment</u></i>                                                                                                                                |
|-------------------------------|-------------------------------------|---------------------------------------------------|-----------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fish and Wildlife habitat     | Not Supporting                      | Sediment Bioassays for Estuarine and Marine Water | 2016                        |                                  | Remedial Action dredging of highly contaminated sediments completed for McAlister Point landfill. ROD in place which requires long term monitoring.  |
| Fish Consumption              | Not Assessed                        |                                                   |                             |                                  |                                                                                                                                                      |
| Primary Contact Recreation    | Not Supporting                      | Sediment Bioassays for Estuarine and Marine Water | 2016                        |                                  | Remedial Action dredging of highly contaminated sediments completed for McAllister Point landfill. ROD in place which requires long term monitoring. |
| Secondary Contact Recreation  | Not Supporting                      | Sediment Bioassays for Estuarine and Marine Water | 2016                        |                                  | Remedial Action dredging of highly contaminated sediments completed for McAllister Point landfill. ROD in place which requires long term monitoring. |
| Shellfish Consumption         | Not Supporting                      | Sediment Bioassays for Estuarine and Marine Water | 2016                        |                                  | Remedial Action dredging of highly contaminated sediments completed for McAllister Point landfill. ROD in place which requires long term monitoring. |

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### East Passage

RI0007029E-01O

Waterbody Size: 1.57 S

Waterbody Classification: SA

East Passage waters south of a line from the northern tip of Prudence Island to the southernmost tip of Popasquash Point, Bristol; north of a line extending from the southernmost tip of Popasquash Point to the southernmost tip of Gull Point, Prudence Island. Portsmouth, Bristol.

| <i><u>Use Description</u></i> | <i><u>Use Attainment Status</u></i> | <i><u>Cause/Impairment</u></i> | <i><u>TMDL Schedule</u></i> | <i><u>TMDL Approval Date</u></i> | <i><u>Comment</u></i>                       |
|-------------------------------|-------------------------------------|--------------------------------|-----------------------------|----------------------------------|---------------------------------------------|
| Fish and Wildlife habitat     | Not Supporting                      | Oxygen, Dissolved              | 2016                        |                                  | Determine need for TMDL post WWTF upgrades. |
| Fish Consumption              | Fully Supporting                    |                                |                             |                                  |                                             |
| Primary Contact Recreation    | Fully Supporting                    |                                |                             |                                  |                                             |
| Secondary Contact Recreation  | Fully Supporting                    |                                |                             |                                  |                                             |
| Shellfish Consumption         | Fully Supporting                    |                                |                             |                                  |                                             |

## Narragansett Basin

### Potter Cove

RI0007029E-03

Waterbody Size: 0.154 S

Waterbody Classification: SA{b}

Potter Cove. Prudence Island, Portsmouth

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                              |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|---------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Oxygen, Dissolved       | 2016                 |                           | Determine need for TMDL post WWTF upgrades. |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                                             |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                                             |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                                             |
| Shellfish Consumption        | Fully Supporting             |                         |                      |                           |                                             |

### Melville Ponds

RI0007029L-01

Waterbody Size: 13.59 A

Waterbody Classification: A

Melville Ponds. Portsmouth

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Phosphorus (Total)      | 2016                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

### Newport Harbor/Coddington Cove

RI0007030E-01A

Waterbody Size: 0.752 S

Waterbody Classification: SB

Coddington Cove waters north of a line from buoy (FLR) bell 14 to Bishop Rock and southeast of a line from buoy (FLR) bell 14 through Nun buoy 16 at Coddington point and its extension to the end of the Coddington Cove breakwater. Newport, Middletown

| <i>Use Description</i>                    | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                           | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                     |
|-------------------------------------------|------------------------------|---------------------------------------------------|----------------------|---------------------------|--------------------------------------------------------------------|
| Fish and Wildlife habitat                 | Not Supporting               | Sediment Bioassays for Estuarine and Marine Water | 2016                 |                           | Hazardous waste site remediation underway. ROD expected fall 2014. |
| Fish Consumption                          | Fully Supporting             |                                                   |                      |                           |                                                                    |
| Primary Contact Recreation                | Fully Supporting             |                                                   |                      |                           |                                                                    |
| Secondary Contact Recreation              | Fully Supporting             |                                                   |                      |                           |                                                                    |
| Shellfish Controlled Relay and Depuration | Fully Supporting             |                                                   |                      |                           |                                                                    |

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## Narragansett Basin

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### Newport Harbor/Coddington Cove

RI0007030E-01D

Waterbody Size: 0.147 S

Waterbody Classification: SB

Coaster's Harbor waters east of a line from Bishop Rock to the northernmost point of Coaster's Harbor Island and north of the Training Station Road bridge. Newport

| <i><u>Use Description</u></i>             | <i><u>Use Attainment Status</u></i> | <i><u>Cause/Impairment</u></i>                    | <i><u>TMDL Schedule</u></i> | <i><u>TMDL Approval Date</u></i> | <i><u>Comment</u></i>                                                                                  |
|-------------------------------------------|-------------------------------------|---------------------------------------------------|-----------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------|
| Fish and Wildlife habitat                 | Not Supporting                      | Sediment Bioassays for Estuarine and Marine Water | 2016                        |                                  | Hazardous waste site remediation underway. ROD established fall 2010 requires monitoring of sediments. |
| Fish Consumption                          | Fully Supporting                    |                                                   |                             |                                  |                                                                                                        |
| Primary Contact Recreation                | Fully Supporting                    |                                                   |                             |                                  |                                                                                                        |
| Secondary Contact Recreation              | Fully Supporting                    |                                                   |                             |                                  |                                                                                                        |
| Shellfish Controlled Relay and Depuration | Fully Supporting                    |                                                   |                             |                                  |                                                                                                        |

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### Mt. Hope Bay

RI0007032E-01A

Waterbody Size: 4.276 S

Waterbody Classification: SA

Mt. Hope Bay south and west of the MA/RI border, and east of a line from Touisset Point to the channel marker buoy R "4" and south and east of a line from buoy R "4" to the southernmost landward end of Bristol Point and south of a line from Bristol Point to the Hog Island shoal light, to the southwestern extremity of Arnold Point in Portsmouth where a RIDEM range marker has been established; and west of a line from the end of Gardiner's Neck Road, Swansea to buoy N"2, through buoy C"3" to Common Fence Point, Portsmouth, excluding the waters defined in RI0007032E-01E. Warren, Portsmouth

| <i><u>Use Description</u></i> | <i><u>Use Attainment Status</u></i> | <i><u>Cause/Impairment</u></i> | <i><u>TMDL Schedule</u></i> | <i><u>TMDL Approval Date</u></i> | <i><u>Comment</u></i>                               |
|-------------------------------|-------------------------------------|--------------------------------|-----------------------------|----------------------------------|-----------------------------------------------------|
| Fish and Wildlife habitat     | Not Supporting                      | Fishes Bioassessments          |                             |                                  | NPDES permit for Brayton Point issued. Category 4B. |
|                               |                                     | Nitrogen (Total)               | 2018                        |                                  | Pending EPA/MA action.                              |
|                               |                                     | Oxygen, Dissolved              | 2018                        |                                  | Pending EPA/MA action.                              |
|                               |                                     | Temperature, water             |                             |                                  | NPDES permit for Brayton Point issued. Category 4B. |
| Fish Consumption              | Fully Supporting                    |                                |                             |                                  |                                                     |
| Primary Contact Recreation    | Fully Supporting                    |                                |                             |                                  |                                                     |
| Secondary Contact Recreation  | Fully Supporting                    |                                |                             |                                  |                                                     |
| Shellfish Consumption         | Not Supporting                      | Fecal Coliform                 |                             | 1/14/2010                        |                                                     |

## Narragansett Basin

### Mt. Hope Bay

RI0007032E-01B

Waterbody Size: 2.01 S

Waterbody Classification: SA

Mt. Hope Bay waters north and west of a line from the southernmost landward end of Bristol Point to buoy R "4" and west of a line from buoy R "4" to the DEM range marker on Touisset Point, and south of the Bristol Narrows. Bristol, Warren

| <i><u>Use Description</u></i> | <i><u>Use Attainment Status</u></i> | <i><u>Cause/Impairment</u></i> | <i><u>TMDL Schedule</u></i> | <i><u>TMDL Approval Date</u></i> | <i><u>Comment</u></i>                               |
|-------------------------------|-------------------------------------|--------------------------------|-----------------------------|----------------------------------|-----------------------------------------------------|
| Fish and Wildlife habitat     | Not Supporting                      | Fishes Bioassessments          |                             |                                  | NPDES permit for Brayton Point issued. Category 4B. |
|                               |                                     | Nitrogen (Total)               | 2018                        |                                  | Pending EPA/MA action.                              |
|                               |                                     | Oxygen, Dissolved              | 2018                        |                                  | Pending EPA/MA action.                              |
|                               |                                     | Temperature, water             |                             |                                  | NPDES permit for Brayton Point issued. Category 4B. |
| Fish Consumption              | Fully Supporting                    |                                |                             |                                  |                                                     |
| Primary Contact Recreation    | Fully Supporting                    |                                |                             |                                  |                                                     |
| Secondary Contact Recreation  | Fully Supporting                    |                                |                             |                                  |                                                     |
| Shellfish Consumption         | Not Supporting                      | Fecal Coliform                 |                             | 1/14/2010                        |                                                     |

### Mt. Hope Bay

RI0007032E-01C

Waterbody Size: 3.047 S

Waterbody Classification: SB

Mt. Hope Bay waters south of a line from Borden's Wharf, Tiverton, to buoy R "4" and west of a line from buoy R "4" to Brayton Point, Somerset, MA., and east of a line from the end of Gardiner's Neck Road in Swansea to buoy N "2", through buoy C "3" to Common Fence Point, Portsmouth, and north of a line from Portsmouth to Tiverton at the railroad bridge at "The Hummocks" on the northeast point of Portsmouth. Portsmouth, Tiverton

| <i><u>Use Description</u></i>             | <i><u>Use Attainment Status</u></i> | <i><u>Cause/Impairment</u></i> | <i><u>TMDL Schedule</u></i> | <i><u>TMDL Approval Date</u></i> | <i><u>Comment</u></i>                               |
|-------------------------------------------|-------------------------------------|--------------------------------|-----------------------------|----------------------------------|-----------------------------------------------------|
| Fish and Wildlife habitat                 | Not Supporting                      | Fishes Bioassessments          |                             |                                  | NPDES permit for Brayton Point issued. Category 4B. |
|                                           |                                     | Nitrogen (Total)               | 2018                        |                                  | Pending EPA/MA action.                              |
|                                           |                                     | Oxygen, Dissolved              | 2018                        |                                  | Pending EPA/MA action.                              |
|                                           |                                     | Temperature, water             |                             |                                  | NPDES permit for Brayton Point issued. Category 4B. |
| Fish Consumption                          | Fully Supporting                    |                                |                             |                                  |                                                     |
| Primary Contact Recreation                | Not Supporting                      | Fecal Coliform                 |                             | 1/14/2010                        |                                                     |
| Secondary Contact Recreation              | Not Supporting                      | Fecal Coliform                 |                             | 1/14/2010                        |                                                     |
| Shellfish Controlled Relay and Depuration | Fully Supporting                    |                                |                             |                                  |                                                     |

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## Narragansett Basin

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### Mt. Hope Bay

RI0007032E-01D

Waterbody Size: 0.483 S

Waterbody Classification: SB1

Mt. Hope Bay waters south and west of the MA-RI border and north of a line from Borden's Wharf, Tiverton to buoy R "4" and east of a line from buoy R "4" to Brayton Point in Somerset, MA. Tiverton.

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                      |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|-----------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Fishes Bioassessments   |                      |                           | NPDES permit for Brayton Point issued. Category 4B. |
|                              |                              | Nitrogen (Total)        | 2018                 |                           | Pending EPA/MA action.                              |
|                              |                              | Oxygen, Dissolved       | 2018                 |                           | Pending EPA/MA action.                              |
|                              |                              | Temperature, water      |                      |                           | NPDES permit for Brayton Point issued. Category 4B. |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                                                     |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform          |                      | 1/14/2010                 |                                                     |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform          |                      | 1/14/2010                 |                                                     |

### Bailey's Brook & Tribs

RI0007035R-01

Waterbody Size: 4.752 M

Waterbody Classification: AA

Bailey's Brook and tributaries. Middletown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2018                 |                           |                |
|                              |                              | Lead                                     | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                             |                      | 9/22/2011                 |                |
| Public Drinking Water Supply | Not Assessed                 |                                          |                      |                           |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                             |                      | 9/22/2011                 |                |

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## Narragansett Basin

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### Maidford River

RI0007035R-02A

Waterbody Size: 3.213 M

Waterbody Classification: AA

Maidford River from the headwaters to the confluence with Paradise Brook, Middletown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2018                 |                           |                |
|                              |                              | Lead                                     | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform                           |                      | 9/22/2011                 |                |
| Public Drinking Water Supply | Not Assessed                 |                                          |                      |                           |                |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform                           |                      | 9/22/2011                 |                |

### Maidford River

RI0007035R-02B

Waterbody Size: 1.092 M

Waterbody Classification: AA

Maidford River from the confluence with Paradise Brook to the end of the river at Third Beach, Middletown.

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform                           |                      | 9/22/2011                 |                |
| Public Drinking Water Supply | Not Assessed                 |                                          |                      |                           |                |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform                           |                      | 9/22/2011                 |                |

### Lawton Brook

RI0007035R-04

Waterbody Size: 0.379 M

Waterbody Classification: A

Lawton Brook, Portsmouth

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                                          |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                                          |                      |                           |                |

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## Narragansett Basin

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### Jamestown Brook

RI0007036R-01

Waterbody Size: 1.432 M

Waterbody Classification: AA

Jamestown Brook. Jamestown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Copper                  | 2018                 |                           |                |
|                              |                              | Iron                    | 2018                 |                           |                |
|                              |                              | Lead                    | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform          |                      | 9/22/2011                 |                |
| Public Drinking Water Supply | Not Assessed                 |                         |                      |                           |                |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform          |                      | 9/22/2011                 |                |

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## Pawcatuck River Basin

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### Tidal Pawcatuck River

RI0008038E-01A

Waterbody Size: 0.321 S

Waterbody Classification: SB1

Tidal Pawcatuck River from Route 1 highway bridge to Pawcatuck Rock. Westerly

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Oxygen, Dissolved       | 2020                 |                           |                |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform          |                      | 12/1/2010                 |                |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform          |                      | 12/1/2010                 |                |

### Chapman Pond

RI0008039L-01

Waterbody Size: 172.8 A

Waterbody Classification: B

Chapman Pond. Westerly

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                                                               | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                                                           |
|------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------|---------------------------|----------------------------------------------------------------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Eurasian Water Milfoil,<br>Myriophyllum spicatum<br>Lead<br>Non-Native Aquatic Plants | 2018                 |                           | No TMDL required. Impairment is not a pollutant.<br><br>No TMDL required. Impairment is not a pollutant. |
| Fish Consumption             | Fully Supporting             |                                                                                       |                      |                           |                                                                                                          |
| Primary Contact Recreation   | Fully Supporting             |                                                                                       |                      |                           |                                                                                                          |
| Secondary Contact Recreation | Fully Supporting             |                                                                                       |                      |                           |                                                                                                          |

### Hundred Acre Pond

RI0008039L-13

Waterbody Size: 84.16 A

Waterbody Classification: B

Hundred Acre Pond. South Kingstown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                     | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|---------------------------------------------|----------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Non-Native Aquatic Plants                   |                      |                           | No TMDL required. Impairment is not a pollutant. |
| Fish Consumption             | Not Supporting               | Oxygen, Dissolved<br>Mercury in Fish Tissue | 2016                 | 12/20/2007                |                                                  |
| Primary Contact Recreation   | Fully Supporting             |                                             |                      |                           |                                                  |
| Secondary Contact Recreation | Fully Supporting             |                                             |                      |                           |                                                  |

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## Pawcatuck River Basin

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### White Brook Pond

RI0008039L-26

Waterbody Size: 6.4 A

Waterbody Classification: B

White Brook Pond. Richmond

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Phosphorus (Total)      | 2016                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

### Alewife Brook

RI0008039R-01

Waterbody Size: 1.081 M

Waterbody Classification: B

Alewife Brook. South Kingstown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Copper                  | 2018                 |                           |                |
|                              |                              | Iron                    | 2018                 |                           |                |
|                              |                              | Lead                    | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

### Ashaway River & Tribs

RI0008039R-02A

Waterbody Size: 1.774 M

Waterbody Classification: A

Ashaway River headwaters including tributaries, south to the Ashaway Road highway bridge. Hopkinton

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Cadmium                 | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus            |                      | 9/22/2011                 |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus            |                      | 9/22/2011                 |                |

## Pawcatuck River Basin

### Chipuxet River & Tribs

RI0008039R-06B

Waterbody Size: 8.161 M

Waterbody Classification: B

Chipuxet River and tributaries from outlet of Yawgoo Mill Pond to the entrance of Hundred Acre Pond. Exeter, South Kingstown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Cadmium                 | 2018                 |                           |                |
|                              |                              | Copper                  | 2018                 |                           |                |
|                              |                              | Iron                    | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

### Mile Brook

RI0008039R-14

Waterbody Size: 1.974 M

Waterbody Classification: B

Mile Brook. Hopkinton

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Iron                    | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus            |                      | 9/22/2011                 |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus            |                      | 9/22/2011                 |                |

### Pawcatuck River & Tribs

RI0008039R-18B

Waterbody Size: 2.156 M

Waterbody Classification: B1

Pawcatuck River and tributaries from the dam at Kenyon to the beginning of the Carolina Mill Pond in Carolina. Richmond, Charlestown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>       | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Whole Effluent Toxicity (WET) | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                               |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                  |                      | 9/22/2011                 |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                  |                      | 9/22/2011                 |                |

## Pawcatuck River Basin

### Pawcatuck River & Tribs

RI0008039R-18D

Waterbody Size: 5.529 M

Waterbody Classification: B1

Pawcatuck River and tributaries from the Bradford Dyeing Associates WWTF discharge point to the Route 3 bridge crossing. Hopkinton, Westerly

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                             | 2014                 |                           |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                             | 2014                 |                           |                |

### Pawcatuck River & Tribs

RI0008039R-18E

Waterbody Size: 13.76 M

Waterbody Classification: B

Pawcatuck River and tributaries from the Route 3 bridge crossing to the Route 1 highway bridge at the junction of Main Street and Broad Street in Westerly. Westerly

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>   | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|---------------------------|----------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Iron                      | 2018                 |                           |                                                  |
|                              |                              | Lead                      | 2018                 |                           |                                                  |
|                              |                              | Non-Native Aquatic Plants |                      |                           | No TMDL required. Impairment is not a pollutant. |
| Fish Consumption             | Not Assessed                 |                           |                      |                           |                                                  |
| Primary Contact Recreation   | Not Supporting               | Enterococcus              | 2014                 |                           |                                                  |
| Secondary Contact Recreation | Not Supporting               | Enterococcus              | 2014                 |                           |                                                  |

### Perry Healy Brook & Tribs

RI0008039R-19

Waterbody Size: 4.817 M

Waterbody Classification: B

Perry Healy Brook and tributaries. Westerly, Charlestown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Copper                  | 2018                 |                           |                |
|                              |                              | Lead                    | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

## Pawcatuck River Basin

### Queens Fort Brook & Tribs

RI0008039R-31B

Waterbody Size: 4.219 M

Waterbody Classification: B

Queens Fort Brook and tributaries from 3/4 mile south of Victory Highway (Route 102) to the confluence with the Queens River. Exeter

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Iron                    | 2018                 |                           |                |
|                              |                              | Lead                    | 2018                 |                           |                |
|                              |                              | Turbidity               | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

### Deep Pond (Exeter)

RI0008040L-12

Waterbody Size: 17.39 A

Waterbody Classification: A

Deep Pond. Exeter

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Oxygen, Dissolved       | 2016                 |                           |                |
|                              |                              | Phosphorus (Total)      | 2016                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Assessed                 |                         |                      |                           |                |
| Secondary Contact Recreation | Not Assessed                 |                         |                      |                           |                |

### Acid Factory Brook & Tribs

RI0008040R-01

Waterbody Size: 4.298 M

Waterbody Classification: A

Acid Factory Brook and tributaries. West Greenwich

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Fully Supporting             |                         |                      |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus            | 2014                 |                           |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus            | 2014                 |                           |                |

## Pawcatuck River Basin

### Canonchet Brook & Tribs

RI0008040R-04A

Waterbody Size: 5.308 M

Waterbody Classification: B

Canonchet Brook headwaters including tributaries, excluding all ponds, to Route 3 in Hopkinton. Hopkinton

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Copper                  | 2018                 |                           |                |
|                              |                              | Iron                    | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

### Canonchet Brook & Tribs

RI0008040R-04B

Waterbody Size: 4.555 M

Waterbody Classification: B

Canonchet Brook and tributaries from Route 3 in Hopkinton to the confluence with the Wood River. Hopkinton

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Cadmium                 | 2018                 |                           |                |
|                              |                              | Copper                  | 2018                 |                           |                |
|                              |                              | Lead                    | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus            |                      | 9/22/2011                 |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus            |                      | 9/22/2011                 |                |

### Coney Brook & Tribs

RI0008040R-05

Waterbody Size: 3.909 M

Waterbody Classification: A

Coney Brook and tributaries. West Greenwich

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Copper                  | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

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## Pawcatuck River Basin

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### Wood River & Tribs

RI0008040R-16D

Waterbody Size: 0.725 M

Waterbody Classification: B

Wood River and tributaries from the Alton Pond dam to the confluence with the Pawcatuck River. Richmond, Hopkinton, Charlestown

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                          | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|--------------------------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Ambient Bioassays --<br>Chronic Aquatic Toxicity | 2018                 |                           |                |
|                              |                              | Benthic-Macroinvertebrate<br>Bioassessments      | 2018                 |                           |                |
|                              |                              | Copper                                           | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                                                  |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                                                  |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                                                  |                      |                           |                |

### Baker Brook

RI0008040R-18

Waterbody Size: 1.359 M

Waterbody Classification: B

Baker Brook. Richmond

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Fully Supporting             |                         |                      |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus            | 2014                 |                           |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus            | 2014                 |                           |                |

### Canob Brook

RI0008040R-23

Waterbody Size: 0.292 M

Waterbody Classification: B

Canob Brook. Richmond

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Iron                    | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

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## Pawtuxet River Basin

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### Pawtuxet River South Branch RI0006014R-04B

Waterbody Size: 5.165 M

Waterbody Classification: B1

Pawtuxet River South Branch from the Quidnick Dye Mill dam to its confluence with the North Branch of the Pawtuxet River. Coventry, West Warwick, Warwick

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Lead                    | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus            |                      | 9/22/2011                 |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus            |                      | 9/22/2011                 |                |

### Unnamed Trib #3 to South Branch Pawtuxet River RI0006014R-08

Waterbody Size: 0.617 M

Waterbody Classification: B

Unnamed Tributary #3 to South Branch Pawtuxet River. Coventry

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Lead                    | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

### Pawtuxet River North Branch RI0006016R-06A

Waterbody Size: 0.485 M

Waterbody Classification: A

Pawtuxet River North Branch from Gainer Memorial Dam to 0.5 mile downstream. Scituate

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Assessed                 |                         |                      |                           |                |
| Fish Consumption             | Not Supporting               | Mercury in Fish Tissue  | 2022                 |                           |                |
| Primary Contact Recreation   | Not Assessed                 |                         |                      |                           |                |
| Secondary Contact Recreation | Not Assessed                 |                         |                      |                           |                |

## Pawtuxet River Basin

### Pawtuxet River North Branch RI0006016R-06B

Waterbody Size: 3.73 M

Waterbody Classification: B

Pawtuxet River North Branch from 0.5 mile downstream of the Gainer Memorial Dam to the Arkwright Dam. Scituate, Cranston, Coventry

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Lead                    | 2018                 |                           |                |
| Fish Consumption             | Not Supporting               | Mercury in Fish Tissue  | 2022                 |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

### Three Ponds RI0006017L-02

Waterbody Size: 21.42 A

Waterbody Classification: B

Three Ponds. Warwick

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>   | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|---------------------------|----------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Copper                    | 2018                 |                           |                                                  |
|                              |                              | Lead                      | 2018                 |                           |                                                  |
|                              |                              | Non-Native Aquatic Plants |                      |                           | No TMDL required. Impairment is not a pollutant. |
|                              |                              | Oxygen, Dissolved         | 2016                 |                           |                                                  |
|                              |                              | Phosphorus (Total)        | 2016                 |                           |                                                  |
| Fish Consumption             | Not Assessed                 |                           |                      |                           |                                                  |
| Primary Contact Recreation   | Not Assessed                 |                           |                      |                           |                                                  |
| Secondary Contact Recreation | Not Assessed                 |                           |                      |                           |                                                  |

### Mashapaug Pond RI0006017L-06

Waterbody Size: 76.75 A

Waterbody Classification: B

Mashapaug Pond. Providence

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Excess Algal Growth     |                      | 9/27/2007                 |                |
|                              |                              | Oxygen, Dissolved       |                      | 9/27/2007                 |                |
|                              |                              | Phosphorus (Total)      |                      | 9/27/2007                 |                |
| Fish Consumption             | Not Supporting               | PCB in Fish Tissue      | 2022                 |                           |                |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform          |                      | 9/22/2011                 |                |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform          |                      | 9/22/2011                 |                |

## Pawtuxet River Basin

### Fenner Pond

RI0006017L-08

Waterbody Size: 19.47 A

Waterbody Classification: B

Fenner Pond. Cranston

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Phosphorus (Total)      | 2016                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

### Pawtuxet River Main Stem

RI0006017R-03

Waterbody Size: 11.02 M

Waterbody Classification: B1

Pawtuxet River from the confluence of the North and South Branches at Riverpoint to the Pawtuxet Cove Dam at Pawtuxet. West Warwick, Warwick, Cranston

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2018                 |                           |                                                  |
|                              |                              | Cadmium                                  | 2018                 |                           |                                                  |
|                              |                              | Non-Native Aquatic Plants                |                      |                           |                                                  |
|                              |                              | Phosphorus (Total)                       | 2018                 |                           | No TMDL required. Impairment is not a pollutant. |
| Fish Consumption             | Not Supporting               | Mercury in Fish Tissue                   | 2022                 |                           | Determine need for TMDL post WWTF upgrades.      |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                             | 2018                 |                           |                                                  |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                             | 2018                 |                           |                                                  |

### Three Pond Brook

RI0006017R-04

Waterbody Size: 2.045 M

Waterbody Classification: B

Three Pond Brook. Warwick

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Lead                    | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Assessed                 |                         |                      |                           |                |
| Secondary Contact Recreation | Not Assessed                 |                         |                      |                           |                |

## Pawtuxet River Basin

### Simmons Reservoir

RI0006018L-03

Waterbody Size: 109 A

Waterbody Classification: B

Simmons Reservoir, Johnston

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Phosphorus (Total)      | 2020                 |                           |                |
|                              |                              | Turbidity               | 2020                 |                           |                |
| Fish Consumption             | Fully Supporting             |                         |                      |                           |                |
| Primary Contact Recreation   | Not Assessed                 |                         |                      |                           |                |
| Secondary Contact Recreation | Not Assessed                 |                         |                      |                           |                |

### Print Works Pond

RI0006018L-05

Waterbody Size: 26.26 A

Waterbody Classification: B

Print Works Pond, Cranston

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>      | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Chloride                     | 2018                 |                           |                |
|                              |                              | Lead                         | 2018                 |                           |                |
|                              |                              | Total Suspended Solids (TSS) | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                              |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform               | 2018                 |                           |                |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform               | 2018                 |                           |                |

### Blackamore Pond

RI0006018L-06

Waterbody Size: 20.44 A

Waterbody Classification: B

Blackamore Pond, Cranston

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Phosphorus (Total)      | 2016                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Fully Supporting             |                         |                      |                           |                |
| Secondary Contact Recreation | Fully Supporting             |                         |                      |                           |                |

## Pawtuxet River Basin

### Cedar Swamp Brook & Tribs

RI0006018R-01

Waterbody Size: 3.469 M

Waterbody Classification: B

Cedar Swamp Brook and tributaries. Johnston

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Iron                    | 2020                 |                           |                |
|                              |                              | Oxygen, Dissolved       | 2020                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform          | 2020                 |                           |                |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform          | 2020                 |                           |                |

### Pocasset River & Tribs

RI0006018R-03A

Waterbody Size: 17.37 M

Waterbody Classification: B

Pocasset River and tributaries from the headwaters to the inlet of Printworks Pond. Cranston, Johnston

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2018                 |                           |                                                  |
|                              |                              | Chloride                                 | 2018                 |                           |                                                  |
|                              |                              | Copper                                   | 2018                 |                           |                                                  |
|                              |                              | Non-Native Aquatic Plants                |                      |                           | No TMDL required. Impairment is not a pollutant. |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                                                  |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                             | 2018                 |                           |                                                  |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                             | 2018                 |                           |                                                  |

### Pocasset River & Tribs

RI0006018R-03B

Waterbody Size: 4.462 M

Waterbody Classification: B

Pocasset River and tributaries from the outlet of Printworks Pond to the confluence with the Pawtuxet River. Cranston

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                             | 2018                 |                           |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                             | 2018                 |                           |                |

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## Pawtuxet River Basin

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### Simmons Brook & Tribs

RI0006018R-04

Waterbody Size: 2.79 M

Waterbody Classification: B

Simmons Brook and tributaries. Johnston

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2020                 |                           |                |
| Fish Consumption             | Not Assessed                 |                                          |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                             |                      | 9/22/2011                 |                |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                             |                      | 9/22/2011                 |                |

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## Ten Mile River Basin

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### Turner Reservoir (Central Pond)

RI0004009L-01A

Waterbody Size: 129.7 A

Waterbody Classification: B1

Turner Reservoir North of Newman Avenue Dam (Central Pond). East Providence

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>   | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|---------------------------|----------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Aluminum                  | 2012                 |                           | No TMDL required. Impairment is not a pollutant. |
|                              |                              | Cadmium                   | 2012                 |                           |                                                  |
|                              |                              | Non-Native Aquatic Plants |                      |                           |                                                  |
|                              |                              | Oxygen, Dissolved         | 2012                 |                           |                                                  |
|                              |                              | Phosphorus (Total)        | 2012                 |                           |                                                  |
| Fish Consumption             | Not Assessed                 |                           |                      |                           |                                                  |
| Primary Contact Recreation   | Fully Supporting             |                           |                      |                           |                                                  |
| Secondary Contact Recreation | Fully Supporting             |                           |                      |                           |                                                  |

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### Turner Reservoir

RI0004009L-01B

Waterbody Size: 85.08 A

Waterbody Classification: B

Turner Reservoir South of Newman Avenue Dam. East Providence

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>   | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|---------------------------|----------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Aluminum                  | 2012                 |                           | No TMDL required. Impairment is not a pollutant. |
|                              |                              | Cadmium                   | 2012                 |                           |                                                  |
|                              |                              | Non-Native Aquatic Plants |                      |                           |                                                  |
|                              |                              | Oxygen, Dissolved         | 2012                 |                           |                                                  |
|                              |                              | Phosphorus (Total)        | 2012                 |                           |                                                  |
| Fish Consumption             | Not Assessed                 |                           |                      |                           |                                                  |
| Primary Contact Recreation   | Fully Supporting             |                           |                      |                           |                                                  |
| Secondary Contact Recreation | Fully Supporting             |                           |                      |                           |                                                  |

## Ten Mile River Basin

### Omega Pond

RI0004009L-03

Waterbody Size: 30.20 A

Waterbody Classification: B

Omega Pond. East Providence

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Aluminum                | 2012                 |                           |                |
|                              |                              | Cadmium                 | 2012                 |                           |                |
|                              |                              | Oxygen, Dissolved       | 2012                 |                           |                |
|                              |                              | Phosphorus (Total)      | 2012                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform          | 2012                 |                           |                |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform          | 2012                 |                           |                |

### Ten Mile River & Tribs

RI0004009R-01A

Waterbody Size: 3.603 M

Waterbody Classification: B1

Ten Mile River and tributaries from the MA-RI border to the inlet to Turner Reservoir North, including Slater Park Pond. Pawtucket

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>   | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|---------------------------|----------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Aluminum                  | 2012                 |                           |                                                  |
|                              |                              | Cadmium                   | 2012                 |                           |                                                  |
|                              |                              | Iron                      | 2012                 |                           |                                                  |
|                              |                              | Lead                      | 2012                 |                           |                                                  |
|                              |                              | Non-Native Aquatic Plants |                      |                           | No TMDL required. Impairment is not a pollutant. |
|                              |                              | Phosphorus (Total)        | 2012                 |                           |                                                  |
| Fish Consumption             | Not Assessed                 |                           |                      |                           |                                                  |
| Primary Contact Recreation   | Not Supporting               | Enterococcus              | 2012                 |                           |                                                  |
|                              |                              | Fecal Coliform            | 2012                 |                           |                                                  |
| Secondary Contact Recreation | Not Supporting               | Enterococcus              | 2012                 |                           |                                                  |
|                              |                              | Fecal Coliform            | 2012                 |                           |                                                  |

# Ten Mile River Basin

| Ten Mile River & Tribs                                                                                       |                       | RI0004009R-01B                           | Waterbody Size: 3.152 M | Waterbody Classification: B |         |
|--------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------|-------------------------|-----------------------------|---------|
| Ten Mile River and tributaries downstream of Turner Reservoir South to the Omega Pond inlet. East Providence |                       |                                          |                         |                             |         |
| Use Description                                                                                              | Use Attainment Status | Cause/Impairment                         | TMDL Schedule           | TMDL Approval Date          | Comment |
| Fish and Wildlife habitat                                                                                    | Not Supporting        | Aluminum                                 | 2012                    |                             |         |
|                                                                                                              |                       | Benthic-Macroinvertebrate Bioassessments | 2016                    |                             |         |
|                                                                                                              |                       | Cadmium                                  | 2012                    |                             |         |
|                                                                                                              |                       |                                          |                         |                             |         |
| Fish Consumption                                                                                             | Not Assessed          |                                          |                         |                             |         |
| Primary Contact Recreation                                                                                   | Fully Supporting      |                                          |                         |                             |         |
| Secondary Contact Recreation                                                                                 | Fully Supporting      |                                          |                         |                             |         |

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## Thames River Basin

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### Lake Washington

RI0005047L-04

Waterbody Size: 40.89 A

Waterbody Classification: B

Lake Washington. Gloucester

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>   | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|---------------------------|----------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Non-Native Aquatic Plants |                      |                           | No TMDL required. Impairment is not a pollutant. |
|                              |                              | Phosphorus (Total)        | 2016                 |                           |                                                  |
| Fish Consumption             | Not Assessed                 |                           |                      |                           |                                                  |
| Primary Contact Recreation   | Fully Supporting             |                           |                      |                           |                                                  |
| Secondary Contact Recreation | Fully Supporting             |                           |                      |                           |                                                  |

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### Keach Brook & Tribs

RI0005047R-02

Waterbody Size: 5.232 M

Waterbody Classification: B

Keach Brook and tributaries. Burrillville

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Cadmium                 | 2018                 |                           |                |
|                              |                              | Lead                    | 2018                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Assessed                 |                         |                      |                           |                |
| Secondary Contact Recreation | Not Assessed                 |                         |                      |                           |                |

## Woonasquatucket River Basin

### Lower Sprague Reservoir

RI0002007L-06

Waterbody Size: 25.12 A

Waterbody Classification: B

Lower Sprague Reservoir. Smithfield

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i> | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i> |
|------------------------------|------------------------------|-------------------------|----------------------|---------------------------|----------------|
| Fish and Wildlife habitat    | Not Supporting               | Phosphorus (Total)      | 2016                 |                           |                |
| Fish Consumption             | Not Assessed                 |                         |                      |                           |                |
| Primary Contact Recreation   | Not Assessed                 |                         |                      |                           |                |
| Secondary Contact Recreation | Not Assessed                 |                         |                      |                           |                |

### Latham Brook & Tribs

RI0002007R-05

Waterbody Size: 3.974 M

Waterbody Classification: B

Latham Brook and tributaries. Smithfield

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                          | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                                                                                       |
|------------------------------|------------------------------|--------------------------------------------------|----------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Ambient Bioassays --<br>Chronic Aquatic Toxicity | 2018                 |                           | ROD in place and remedial action<br>underway for Davis Industrial landfill.<br>ROD amended fall 2010 for groundwater<br>remediation. |
|                              |                              | Benthic-Macroinvertebrate<br>Bioassessments      | 2018                 |                           | ROD in place and remedial action<br>underway for Davis Industrial landfill.<br>ROD amended fall 2010 for groundwater<br>remediation. |
|                              |                              | Lead                                             | 2018                 |                           |                                                                                                                                      |
| Fish Consumption             | Not Assessed                 |                                                  |                      |                           |                                                                                                                                      |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                                     |                      | 9/22/2011                 |                                                                                                                                      |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                                     |                      | 9/22/2011                 |                                                                                                                                      |

## Woonasquatucket River Basin

### Woonasquatucket River & Tribs

RI0002007R-10B

Waterbody Size: 4.602 M

Waterbody Classification: B

Woonasquatucket River including tributaries from the Georgiaville Pond outlet to the Smithfield WWTF discharge point at Esmond Mill Drive. Smithfield

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                              | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|------------------------------------------------------|----------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Mercury in Water Column<br>Non-Native Aquatic Plants | 2022                 |                           | No TMDL required. Impairment is not a pollutant. |
| Fish Consumption             | Not Assessed                 |                                                      |                      |                           |                                                  |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform                                       |                      | 7/3/2007                  |                                                  |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform                                       |                      | 7/3/2007                  |                                                  |

### Woonasquatucket River & Tribs

RI0002007R-10C

Waterbody Size: 5.165 M

Waterbody Classification: B1

Woonasquatucket River and tributaries from the Smithfield WWTF discharge point at Esmond Mill Drive to the CSO outfall at Glenbridge Avenue in Providence. Smithfield, North Providence, Providence, Johnston

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                                                                                                           | <i>TMDL Schedule</i>                 | <i>TMDL Approval Date</i> | <i>Comment</i>                                   |
|------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------|--------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments<br>Dioxin (including 2,3,7,8-TCDD)<br>Mercury<br>Non-Native Aquatic Plants               | 2018<br>2022<br>2022                 |                           | No TMDL required. Impairment is not a pollutant. |
| Fish Consumption             | Not Supporting               | Oxygen, Dissolved<br>Polychlorinated biphenyls<br>Dioxin (including 2,3,7,8-TCDD)<br>Mercury in Fish Tissue<br>PCB in Fish Tissue | 2018<br>2022<br>2022<br>2022<br>2022 |                           |                                                  |
| Primary Contact Recreation   | Not Supporting               | Fecal Coliform                                                                                                                    |                                      | 7/3/2007                  |                                                  |
| Secondary Contact Recreation | Not Supporting               | Fecal Coliform                                                                                                                    |                                      | 7/3/2007                  |                                                  |

## Woonasquatucket River Basin

### Woonasquatucket River

RI0002007R-10D

Waterbody Size: 3.572 M

Waterbody Classification: B1{a}

Woonasquatucket River from the CSO outfall at Glenbridge Avenue to the confluence with the Moshassuck River.  
Providence

| <i>Use Description</i>       | <i>Use Attainment Status</i> | <i>Cause/Impairment</i>                  | <i>TMDL Schedule</i> | <i>TMDL Approval Date</i> | <i>Comment</i>                                                                        |
|------------------------------|------------------------------|------------------------------------------|----------------------|---------------------------|---------------------------------------------------------------------------------------|
| Fish and Wildlife habitat    | Not Supporting               | Benthic-Macroinvertebrate Bioassessments | 2018                 |                           |                                                                                       |
|                              |                              | Copper                                   |                      | 7/3/2007                  |                                                                                       |
|                              |                              | Dioxin (including 2,3,7,8-TCDD)          | 2022                 |                           |                                                                                       |
|                              |                              | Lead                                     |                      | 7/3/2007                  |                                                                                       |
|                              |                              | Mercury                                  | 2022                 |                           |                                                                                       |
|                              |                              | Non-Native Aquatic Plants                |                      |                           | No TMDL required. Impairment is not a pollutant.                                      |
|                              |                              | Oxygen, Dissolved                        | 2018                 |                           |                                                                                       |
|                              |                              | Polychlorinated biphenyls                | 2022                 |                           |                                                                                       |
|                              |                              | Zinc                                     |                      | 7/3/2007                  |                                                                                       |
| Fish Consumption             | Not Supporting               | Dioxin (including 2,3,7,8-TCDD)          | 2022                 |                           |                                                                                       |
|                              |                              | Mercury in Fish Tissue                   | 2022                 |                           |                                                                                       |
|                              |                              | PCB in Fish Tissue                       | 2022                 |                           |                                                                                       |
| Primary Contact Recreation   | Not Supporting               | Enterococcus                             | 2022                 |                           | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |
| Secondary Contact Recreation | Not Supporting               | Enterococcus                             | 2022                 |                           | Compliance with Consent Agreement for CSO abatement expected to negate need for TMDL. |

## Final 2012 Delisting Document

### 1. **Sandy Pond (South of Airport) (Little Pond) RI0007024L-01**

- **Fecal Coliform** – Fecal coliform was originally listed as an impairment in 1992 when this was the indicator to evaluate primary and secondary contact use. The current primary and secondary contact indicator is Enterococcus. Recent Enterococcus data collected in Sandy Pond by the URI Watershed Watch Program indicates that the primary and secondary contact uses are being met with the attainment of the Enterococcus geometric mean criteria of 54 colonies/100 ml.

| <b>Date</b>           | <b>Enterococci<br/>Reported Result<br/>(colonies/100 ml)</b> | <b>Annual<br/>Geometric means<br/>(colonies/100 ml)</b> |
|-----------------------|--------------------------------------------------------------|---------------------------------------------------------|
| 10/15/2011            | 25.4                                                         | 21.00                                                   |
| 9/6/2011              | 12.4                                                         |                                                         |
| 7/17/2011             | 5.0                                                          |                                                         |
| 5/10/2011             | 123.6                                                        |                                                         |
| 10/14/2010            | 9.8                                                          | 7.31                                                    |
| 9/2/2010              | 4.1                                                          |                                                         |
| 7/17/2010             | 11.1                                                         |                                                         |
| 5/10/2010             | 6.4                                                          |                                                         |
| 10/14/2009            | 5.3                                                          | 4.09                                                    |
| 9/8/2009              | 3.0                                                          |                                                         |
| 7/17/2009             | 4.2                                                          |                                                         |
| 5/1/2009              | 4.2                                                          |                                                         |
| 10/21/2008            | 1.0                                                          | 4.95                                                    |
| 9/19/2008             | 36.4                                                         |                                                         |
| 8/16/2008             | 3.1                                                          |                                                         |
| 5/10/2008             | 5.3                                                          |                                                         |
| <b>Geometric mean</b> | <b>7.47</b>                                                  |                                                         |

2. **Unnamed Tribs to Slack Reservoir (RI0002007R-15)**

- Enterococcus – These tributaries were first listed as impaired for Enterococcus on the 2008 303(d) List. Review of recent data collected at 4 stations by the URI Watershed Watch Program indicates that Enterococcus is now meeting the primary and secondary recreational use geometric mean criteria of 54 colonies/100 ml at each station.

Station WW123

| <b>Date</b>               | <b>Reported Result<br/>(colonies/100 ml)</b> | <b>Annual Geometric<br/>Means<br/>(colonies/100 ml)</b> |
|---------------------------|----------------------------------------------|---------------------------------------------------------|
| 10/15/2011                | 15                                           | 3.60                                                    |
| 9/6/2011                  | 3.1                                          |                                                         |
| 5/10/2011                 | 1.0                                          |                                                         |
| 10/14/2010                | 2.0                                          | 18.64                                                   |
| 7/5/2010                  | 173.8                                        |                                                         |
| 10/2/2008                 | 5.2                                          | 3.58                                                    |
| 8/15/2008                 | 32.7                                         |                                                         |
| 7/10/2008                 | 9.7                                          |                                                         |
| 5/9/2008                  | 0.1                                          |                                                         |
| 10/1/2007                 | 6.1                                          | 3.90                                                    |
| 7/21/2007                 | 9.7                                          |                                                         |
| 5/10/2007                 | 1.0                                          |                                                         |
| <b>Geometric<br/>mean</b> | <b>4.82</b>                                  |                                                         |

Station WW124

| <b>Date</b>               | <b>Reported Result<br/>(colonies/100 ml)</b> | <b>Annual Geometric<br/>Means<br/>(colonies/100 ml)</b> |
|---------------------------|----------------------------------------------|---------------------------------------------------------|
| 10/15/2011                | 201                                          | 15.86                                                   |
| 9/6/2011                  | 6.4                                          |                                                         |
| 5/10/2011                 | 3.1                                          |                                                         |
| 10/14/2010                | 2.0                                          | 9.15                                                    |
| 9/9/2010                  | 3.1                                          |                                                         |
| 7/15/2010                 | 123.6                                        |                                                         |
| 10/2/2008                 | 12.1                                         | 17.46                                                   |
| 8/15/2008                 | 76.8                                         |                                                         |
| 7/10/2008                 | 13.5                                         |                                                         |
| 5/9/2008                  | 7.4                                          |                                                         |
| 10/1/2007                 | 9.6                                          | 5.49                                                    |
| 7/21/2007                 | 8.6                                          |                                                         |
| 5/10/2007                 | 2.0                                          |                                                         |
| <b>Geometric<br/>mean</b> | <b>11.26</b>                                 |                                                         |

## Unnamed Tribs to Slack Reservoir (RI0002007R-15) continued

## Station WW125

| <b>Date</b>           | <b>Reported Result</b><br>(colonies/100 ml) | Annual Geometric<br>Means<br>(colonies/100 ml) |
|-----------------------|---------------------------------------------|------------------------------------------------|
| 10/15/2011            | 47.8                                        | 8.54                                           |
| 9/6/2011              | 4.2                                         |                                                |
| 5/10/2011             | 3.1                                         |                                                |
| 10/14/2010            | 3.0                                         | 12.65                                          |
| 9/9/2010              | 5.1                                         |                                                |
| 7/15/2010             | 132.2                                       |                                                |
| 10/2/2008             | 21.6                                        | 9.39                                           |
| 8/15/2008             | 29.0                                        |                                                |
| 7/10/2008             | 6.2                                         |                                                |
| 5/9/2008              | 2.0                                         |                                                |
| 10/1/2007             | 9.4                                         | 10.65                                          |
| 7/21/2007             | 24.7                                        |                                                |
| 5/10/2007             | 5.2                                         |                                                |
| <b>Geometric mean</b> | <b>10.13</b>                                |                                                |

## Station WW126

| <b>Date</b>           | <b>Reported Result</b><br>(colonies/100 ml) | Annual Geometric<br>Means<br>(colonies/100 ml) |
|-----------------------|---------------------------------------------|------------------------------------------------|
| 10/15/2011            | 59.1                                        | 12.53                                          |
| 9/6/2011              | 6.4                                         |                                                |
| 5/10/2011             | 5.2                                         |                                                |
| 10/14/2010            | 0.1                                         | 3.12                                           |
| 9/9/2010              | 2.0                                         |                                                |
| 7/15/2010             | 151.8                                       |                                                |
| 10/2/2008             | 82.0                                        | 25.89                                          |
| 8/15/2008             | 124.9                                       |                                                |
| 7/10/2008             | 10.7                                        |                                                |
| 5/9/2008              | 4.1                                         |                                                |
| 10/1/2007             | 9.6                                         | 1.58                                           |
| 7/21/2007             | 4.1                                         |                                                |
| 5/10/2007             | 0.1                                         |                                                |
| <b>Geometric mean</b> | <b>7.05</b>                                 |                                                |

### 3. **Slater Park Pond (RI0004009L-02)**

- Proposal to remove this as a separate WBID and incorporate the previously identified impairments associated with this area into the upper Ten Mile River segment. The Upper Ten Mile River (Waterbody ID#: RI0004009R-01A) extends from the MA/RI state line to the inflow of Central Pond also referred to as Turner Reservoir North (Figure 1). The segment is separated by a small impoundment, historically referred to as Slater Park Pond. In the early 1990s, as WBID#s were being assigned to the waters of the state under the RIDEM 305(b) Program, this small impoundment was assigned a lake WBID# (RI 0004009L-02). During this time, the identification of run-of-the river impoundments as lake waterbody types was made without field verification or any definition of what constituted a lake. In fact many run-of-the river impoundments across the state are *not* identified with separate lake WBID#s but as continuations of the river WBID#.



**Figure 1. Lake and River Segments in the Ten Mile River Watershed.**

Slater Park Pond, located in Pawtucket, RI, is a 24 acre run-of-the-river impoundment of the Ten Mile River. According to the RIDEM Dam Safety program's dam inventory

database, the impoundment was created in 1926 by the State of Rhode Island Metropolitan Park Commission, transforming a former large swampy area into a shallow impoundment. Recent staff surveys of the impoundment show it to have an average depth of approximately 3 feet. Water residence times of 2.7 days and 0.3 days, respectively were calculated under the 7Q10 and mean annual flows of 12 cfs and 107 cfs.

Based on water residence time, Slater Park Pond does not meet the definition of a “lake” as defined in EPA’s April 2000 Nutrient Criteria Technical Guidance Manual for Lakes and Reservoirs (“natural and artificial impoundments with a surface area greater than 10 acres and a mean water residence time of 14 or more days.”). Based on EPA guidance and recent staff field verification, RIDEM is correcting the identification of the run-of-the river area known as Slater Park Pond, from a lake to a river waterbody type. This run-of-the river area is now incorporated into the Upper Ten Mile River WBID# RI0004009R-01A.

The area of the river known as Slater Park Pond is currently on the 2010 303(d) List for: Total Aluminum, Total Iron, Dissolved Cadmium, Dissolved Lead, Total Phosphorus, and fecal coliform. The corrective action of incorporating the run-of-the river area known as Slater Park Pond into the Upper Ten Mile River segment results in:

- 1) Removal of waterbody ID# (RI0004009L-02) from the existing database and removal of all 303(d) pollutants associated with this waterbody segment,
- 2) The inclusion of the run-of-the river area known as Slater Park Pond into the Upper Ten Mile River segment (RI0004009R-01A) results in an increase of the linear extension of this waterbody ID# by the appropriate length of Slater Park Pond area (from 3.0934 miles to 3.6034 miles), and all data previously used to assess Slater Park Pond would be transferred to the Upper Ten Mile River segment,
- 3) The inclusion of data from Slater Park Pond into the Upper Ten Mile River segment (RI0004009R-01A) will result in the addition of the following impairments:
  - a. The addition of fecal coliform impairment to Upper Ten Mile,
  - b. The addition of total phosphorus as an impairment to the Upper Ten Mile River. It has been determined that portions of the Upper Ten Mile River, namely the run-of-the river area historically referred to as Slater Park Pond, contain undesirable and/or nuisance aquatic algal growth. Some species of algae found are associated with cultural eutrophication. This information has been determined to exceed the state’s narrative nutrient criteria for freshwater rivers.

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## **Response to Comments Received on the Draft 2012 303(d) List**

(Note that in the interest of document brevity, comments may have been paraphrased and/or excerpted from original comments.)

**1. The Center for Biological Diversity (CBD) requests that Rhode Island identify its coastal waters as threatened or impaired under section 303(d) of the Clean Water Act. Rhode Island should list its ocean water segments as impaired water bodies as required by section 303(d) of the Clean Water Act because existing pollution controls are insufficient for ocean waters to meet Rhode Island's water quality standards. 33 U.S.C. § 1313(d).**

### **DEM Response**

RIDEM acknowledges ocean acidification (OA) as an important issue and while the literature cited by CBD clearly define the concerns and science available on the topic of OA, they do not provide sufficient information demonstrating that Rhode Island's marine waters are failing to attain (or will not be in attainment by the next listing cycle) Rhode Island's water quality standards, including those for protection of pH, marine or aquatic life use, and antidegradation. CBD did not submit any data that showed any exceedances of water quality standards, nor information showing that the state's aquatic and marine life uses nor any other designated uses were not being met. Furthermore, the CBD comments are not clear which waters are the focus of the antidegradation concerns nor indicated which components of the antidegradation policy are not in compliance with Rhode Island's water quality standards. Nevertheless, available water quality data (discussed below) do not suggest that existing uses in Rhode Island's marine waters are not being met.

At this time, Rhode Island does not have data available to characterize short-term marine pH diurnal and seasonal variability or to quantify a normally occurring pH "baseline" necessary to identify variation from natural and any long term trends for the state's ocean waters. However, Rhode Island does have data available for Narragansett Bay. Review of Narragansett Bay data indicated that while there is inter-annual variability and seasonal fluxes in pH, there is no trend of increasing nor decreasing pH levels. Furthermore, the primary driving forces behind the Narragansett Bay inter-annual and seasonal fluxes in pH are from phytoplankton blooms and salinity changes due to freshwater loadings. Details are provided below.

A network of fixed site monitoring stations is maintained throughout Narragansett Bay that provide high resolution temporal data. The stations are located strategically to transect the length of Narragansett Bay and serve as sentinels of changing conditions. These stations measure near surface and near bottom pH, temperature, dissolved oxygen, chlorophyll, and salinity at 15 minute intervals where applicable. Buoy stations are deployed from May-October, concentrating on monitoring the summer months (June-September). The land-based stations operate year-round. For pH assessments, all 12 bay

stations were analyzed on a summer seasonal basis and three land-based, year round stations were also examined for changes in pH levels.

For the seasonal analysis, since stations were added to the network over the course of several years (2001-2008), each location was examined individually. Seasonal means, maximum, and minimum levels were calculated from June 1- September 30 for each year between 2001 and 2011, where data are available. The results show that the means at each station fall within Rhode Island's saltwater pH criteria (6.5-8.5), and with the exception of one station in the Seekonk River affected by freshwater inflows during the springtime flood of 2010, all individual data points are in fact above a pH of 6.5. pH varies inter-annually and by station location. As suggested in the literature, several factors, such as chlorophyll blooms and salinity levels appear to be affecting pH levels such that pH is increased during a phytoplankton bloom and decreased when freshwater is introduced because freshwater is more acidic than seawater (Oczkowski, et.al, 2010). The headwaters of the bay have an influx of freshwater delivering nutrients to the bay. As a result, phytoplankton biomass levels tend to have a north to south gradient of high to low bloom concentrations. Conversely, there is a north to south gradient of low to high salinity in Narragansett Bay (Oviatt, 2002). pH ranges follow these observed gradients with the uppermost station (Phillipsdale located in the Seekonk River) showing the largest flux in pH with an average standard deviation of 0.45 and the station closest to the mouth of the Bay with Rhode Island Sound (located at GSO dock) having the lowest variability with a 0.10 standard deviation. Furthermore, high seasonal pH maximums tracked with high chlorophyll maximums, and years with the lowest salinities tracked the years with the lowest pH minimums indicating that the inter-annual variability of pH levels in Narragansett Bay are predominately driven by salinity and phytoplankton changes. In addition, a general increasing pH trend was not observed during analysis of summer seasonal data from any of the stations in the mesohaline region of Narragansett Bay (Phillipsdale in the Seekonk River and Bullock Reach in the Providence River) as have been observed in Chesapeake Bay (Waldbusser et al. 2010).

Three stations were available for long-term continuous analysis of pH. These are land-based stations located at the western edge of Greenwich Bay (GB), South of Prudence Island on the East Passage (TW), and on the western side of the West Passage near the mouth of the Bay at the GSO dock (GD). These stations were added at different times over the course of the history of the continuous monitoring network. The GSO dock station has the longest record dating back to 1996. Evaluation of all the daily pH values over the course of this time period shows the seasonal trends in pH. Peak pH occurs during the winter/spring of each year at the GSO dock. This area is also subject to winter/spring blooms depending upon environmental factors, such as temperature <3.5°C (Oviatt, 2002). Chlorophyll levels and increased pH values are correlated. The GSO dock station generally has the least season variability when comparing all 3 stations. One exception occurred during a major flood event in October 2005. There was a large inflow of freshwater during this month that may have attributed to the low pH readings. Overall, at this time based on the available data, there is no evidence of a decline in pH in any area of Narragansett Bay, nor do the data demonstrate non-attainment of Rhode Island marine quality standards.

Data used in the analyses discussed above are available on the RIDEM website at <http://www.dem.ri.gov/bart/stations.htm>. Daily averages of the data can be found at [http://www.narrbay.org/chemical\\_data.htm](http://www.narrbay.org/chemical_data.htm).

The Department is addressing nutrient loadings to Narragansett Bay with more stringent nitrogen limits established by RIPDES (Rhode Island Pollutant Discharge Elimination System) permits for major POTWs discharging to the Bay watershed. These permit limits are expected to reduce chlorophyll levels and also reduce pH maximums. The fixed network stations will remain in place for the near future allowing for the continued monitoring of chlorophyll and pH levels.

The articles by CBD also did not provide sufficient information to determine whether the marine pH criteria or aquatic life designated use are not being met. The majority of the articles that CBD cited were of a global nature which is at a geographic scale that cannot be used to determine the local condition of RI's waters. Those studies conducted along the United State's eastern coast are geographically dissimilar from Rhode Island and included no data applicable to Rhode Island's waters. Other cited biological studies were laboratory experiments which do not necessarily represent local populations or conditions in Rhode Island.

However, RIDEM/OWR will work with our marine fisheries colleagues to track research results monitoring changes in calcification rates and shellfish larvae survival rates within Narragansett Bay. As more knowledge on the issue of ocean acidification in coastal estuarine waters becomes available, along with studies conducted within and around Narragansett Bay, water quality assessments relating to pH and the aquatic life designated use will be further examined.

**2. The marine pH water quality standard requires that the pH of all seawaters must be between "6.5 – 8.5 but not more than 0.2 units outside of the normally occurring range" (RI Water Quality Regulations Rule 8.D.(3)). This standard, however, may be insufficient to protect designated uses. Zeebe et al. (2008) highlighted the importance of addressing ocean acidification before seawater pH change exceeds the 0.2 unit water quality criterion recommended by the EPA (Zeebe et al. 2008). In light of this insufficiency and EPA's current review and possible revision of its marine pH criterion, Rhode Island should gauge the need to list waters due to ocean acidification on the 303(d) list by the impacts on water quality and marine life.**

#### **DEM Response**

As noted in CBD's December 22, 2011 letter to RIDEM, EPA's November 15, 2012 memorandum to the states on Integrated Reporting and Listing Decisions Related to Ocean Acidification provides recommendations on state assessments, monitoring, and sources for more information on ocean acidification and assessment. The memorandum also reported on EPA's decision against revising the national marine pH criteria for aquatic life due to insufficient data based upon a review of a wide range of information received in response to a Notice of Data Availability on OA and marine pH water quality criteria.

EPA concluded that states need to continue to use their current marine pH criteria as a basis for 303(d) listing until additional OA criteria are adopted. RIDEM will continue to utilize the state adopted and EPA approved marine pH criteria for the 2012 assessments and 303(d) Listing.

Literature cited

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Waldbusser, G.G., Voigt, E.P., Bergschneider, H., Green, M.A., and Newell, R.I.E. 2010. Biocalcification in the eastern oyster (*Crassostrea virginica*) in relation to long-term trends in Chesapeake Bay pH. Estuaries and Coasts 34, no. 2 (May 29): 1-11.