

**Municipality/Organization:** City of Taunton

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**EPA NPDES Permit Number:** MAR041164

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**MassDEP Transmittal Number:** W-041086

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**Annual Report Number** Year 11

**& Reporting Period:** April 1, 2013 – March 31, 2014

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## **NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2014)**

### **Part I. General Information**

**Contact Person:** Fred Cornaglia

**Title:** Commissioner

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**Telephone #:** 508-821-1434

**Email:** fcornaglia@taunton-ma.gov

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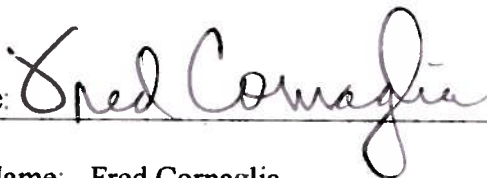
**Mailing Address:** 90 Ingell Street, Taunton, MA 02780

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### **Certification:**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**Signature:**



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**Printed Name:** Fred Cornaglia

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**Title:** Commissioner

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**Date:**

4/17/14

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## **Part II. Self-Assessment**

The City of Taunton has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, except for the following provisions:

**Part II.B.1-6**      Any Provisions of Part II.B.1-6 that have not been met are detailed in Part III below.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

| BMP ID # | BMP Description                                            | Responsible Dept./Person Name                                                                                                              | Measurable Goal(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Progress on Goal(s) – Permit Year 11<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Planned Activities – Permit Year 12                                                                                                                                                                                                                                                        |
|----------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1-1      | Conduct an Annual Household Hazardous Waste Collection Day | Taunton Pollution Prevention Control Facility                                                                                              | Spring ‘04/05/06/07 <ul style="list-style-type: none"><li>• Sponsor an annual household hazardous waste collection day.</li><li>• Continue to develop the Taunton Recycling Information brochure and distribute to all Taunton residents via a mass mailing on an annual basis.</li><li>• Track the number of brochures distributed to residences via the mass mailing each year.</li><li>• Annually send a press release advertising the event to the <i>Taunton Gazette</i> and track whether or not it was published.</li><li>• Advertise the event on the local cable access station on an annual basis.</li><li>• Maintain and update the City’s web page.</li><li>• Track the amounts and types of wasted collected each year.</li><li>• Track the number of Taunton vehicles that participate in the event each year.</li></ul> | <ul style="list-style-type: none"><li>• The hazardous waste collection day was held on April 27, 2013.</li><li>• The event was advertised in the <i>Taunton Gazette</i>, local cable access station, and a flyer was distributed in the yearly DPW mailing for trash collection days. In addition, a flyer was posted at supermarkets and in schools.</li><li>• Some of the items collected include batteries, solvents, paint thinners, gasoline, kerosene, fluorescent light bulbs, pesticides, and antifreeze.</li><li>• The City of Taunton distributes recycling bins to residents at the Department of Public Works.</li><li>• The City of Taunton Board of Health offered at least two medical hazardous waste days. The medical hazardous waste days are held in the spring and fall.</li></ul> | <ul style="list-style-type: none"><li>• The hazardous waste collection day is scheduled for Saturday, April 26, 2014.</li><li>• Continue to offer two medical hazardous waste days throughout the year.</li><li>• Continue to distribute recycling bins to residents.</li></ul>            |
| Revised  |                                                            |                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                            |
| 1-2      | Distribute a Series of Educational Flyers                  | Taunton Conservation Commission<br>Taunton Environmental Awareness Movement<br>Taunton Municipal Lighting Plant<br>Taunton Webmaster       | Summer ‘06/07 <ul style="list-style-type: none"><li>• Track number of flyers distributed each year.</li><li>• Post the electronic version of the flyer on the City’s web page.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"><li>• Continued to make the educational flyers titled “After the Storm” available at the Department of Public Works and the Planning and Conservation Department.</li><li>• Continued to display a poster titled “Stormwater and the Construction Industry” in the Department of Public Works and the Planning and Conservation Department.</li><li>• An electronic version of the flyers and posters are available on the City of Taunton’s web page.</li></ul>                                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"><li>• The City of Taunton will continue to make the “After the Storm” flyer and will continue to display the “Stormwater and the Construction Industry” poster at the Department of Public Works and the Planning and Conservation Department.</li></ul> |
| Revised  |                                                            |                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                            |
| 1-3      | Post Educational Information on the City’s Web Site        | Taunton Department of Public Works<br>Taunton Conservation Commission<br>Taunton Planning Department<br>Taunton Ecology Awareness Movement | Spring ‘03 – Winter ‘07/08 <ul style="list-style-type: none"><li>• Post stormwater related information on the Green Page web site.</li><li>• Update web site regularly.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"><li>• The City of Taunton has created a webpage dedicated to stormwater. The page includes links to environmental websites and provides a variety of environmental information related to stormwater. The City of Taunton continued to maintain the stormwater web page.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <ul style="list-style-type: none"><li>• The City of Taunton will continue to maintain the stormwater web page.</li></ul>                                                                                                                                                                   |
| Revised  |                                                            |                                                                                                                                            | <ul style="list-style-type: none"><li>• Post stormwater related information on the City of Taunton web site.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                            |
| 1-4      | Promoting Water Conservation Practices for Homeowners      | Taunton Water Department                                                                                                                   | Spring ‘03 – Winter ‘07/08 <ul style="list-style-type: none"><li>• Maintain and update the water conservation tips on the Water Department’s web page.</li><li>• Continue to use local newspapers to promote water conservation and track the number of water conservation reminders that are placed in newspapers each year.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <ul style="list-style-type: none"><li>• Water conservation tips have been included on the stormwater webpage.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"><li>• The City of Taunton will continue to maintain the stormwater web page including water conservation tips.</li></ul>                                                                                                                                 |
| Revised  |                                                            |                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                            |

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|---------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 1-5     | Participate in the Annual Ecology Fair | Taunton Conservation Commission<br>Taunton Department of Public Works<br>Taunton Water Department<br>Taunton Ecology Awareness Movement | Fall '04, Fall '06, Spring '07 <ul style="list-style-type: none"><li>Submit a press release advertising the event to the <i>Taunton Gazette</i>.</li><li>Track the number and type of educational materials that are distributed by the City's Storm Water Quality Booth at the Taunton Ecology Fair.</li></ul> | <ul style="list-style-type: none"><li>The Taunton River Festival was held on Saturday, June 1, 2013.</li></ul> | <ul style="list-style-type: none"><li>The Taunton River Festival will be held on Saturday, June 7, 2014.</li></ul> |
| Revised |                                        |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                 |                                                                                                                |                                                                                                                    |

**1a. Additions**  
There are no additions at this time.

2. Public Involvement and Participation

| BMP ID # | BMP Description                                   | Responsible Dept./Person Name                                                                               | Measurable Goal(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Progress on Goal(s) – Permit Year 11<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Planned Activities – Permit Year 12                                                                                                                                                                                                                                                   |
|----------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-1      | Public Access to SWMP & Receipts of Comments      | Taunton Superintendent of Public Works<br>Taunton Webmaster                                                 | Summer '03 <ul style="list-style-type: none"><li>Make draft SWMP available to the public and conduct public comment period.</li><li>Finalize SWMP.</li></ul> Summer '04 – Winter '07/08 <ul style="list-style-type: none"><li>Make the Final SWMP accessible to the public via the City's public library, Craig C. Sherman Operations Center, and web page.</li></ul>                                                                                                     | <ul style="list-style-type: none"><li>The Final SWMP is located at the City's public library.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"><li>Activities to proceed as noted in the Measurable Goal's column.</li></ul>                                                                                                                                                                       |
| Revised  |                                                   |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                       |
| 2-2      | Co-sponsor Annual River Cleanup                   | Taunton Conservation Commission<br>Taunton Department of Public Works<br>Taunton Ecology Awareness Movement | Fall '03/04/05/06/07 <ul style="list-style-type: none"><li>Send press releases to the <i>Taunton Gazette</i>, the <i>Brockton Enterprise</i> and other local newspapers.</li><li>Track the number of cleanup volunteers and supporting businesses.</li><li>Track the number/length of streams cleaned.</li><li>Track the quantity and types of waste collected as a result of the cleanup event.</li><li>Indicate the water quality at the river cleanup sites.</li></ul> | <ul style="list-style-type: none"><li>A Citywide Cleanup occurred on April 27, 2013.</li><li>Press releases were sent to local newspapers.</li><li>The number of volunteers, supporting businesses, number/length of streams, and quantity and type of waste collected were tracked. Approximately 150 volunteers removed approximately 2.5 tons of material from roadsides and streams. Materials included household trash, litter, construction and demolition debris, tires, furniture, and dead-fall debris.</li><li>The water quality monitoring was performed by the Taunton River Watershed Alliance and Veolia Water.</li></ul> | <ul style="list-style-type: none"><li>Activities to proceed as noted in the Measurable Goal's column.</li><li>The City of Taunton will be holding the Citywide Cleanup in Saturday, April 26, 2014. The Taunton River, Mill River and/or Three Mile River will be included.</li></ul> |
| Revised  |                                                   |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                       |
| 2-3      | Co-sponsor Annual Citywide Cleanup                | Taunton Conservation Commission<br>Taunton Department of Public Works<br>Taunton Ecology Awareness Movement | Spring '03/04/05/06/07 <ul style="list-style-type: none"><li>Send press releases to the <i>Taunton Gazette</i>, the <i>Brockton Enterprise</i> and other local newspapers.</li><li>Track the number of cleanup participants.</li><li>Track the areas cleaned.</li><li>Track the quantity and types of waste collected as a result of the cleanup event.</li></ul>                                                                                                         | <ul style="list-style-type: none"><li>A Citywide Cleanup occurred on April 27, 2013.</li><li>Press releases were sent to local newspapers.</li><li>The number of volunteers, supporting businesses, areas cleaned, and quantity and type of waste collected were tracked. Approximately 2.5 tons of material was removed.</li><li>In addition, the Friends of Massasoit State Park held a cleanup on Saturday, June 1, 2013.</li></ul>                                                                                                                                                                                                  | <ul style="list-style-type: none"><li>Activities to proceed as noted in the Measurable Goal's column.</li><li>The City of Taunton will be holding the Citywide Cleanup in April 26, 2014. The Mill River and/or Three Mile River will be included.</li></ul>                          |
| Revised  |                                                   |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                       |
| 2-4      | Conduct Local Water Quality Monitoring Activities | Taunton Department of Public Works<br>USFilter<br>Taunton River Watershed Alliance                          | Spring '04 – Winter '07/08 <ul style="list-style-type: none"><li>Identify sampling areas.</li><li>Collect and analyze samples.</li><li>Report high fecal coliform counts to responsible parties.</li><li>Draft an annual Water Quality Report for the City of Taunton.</li></ul>                                                                                                                                                                                          | <ul style="list-style-type: none"><li>As part of a contract, Veolia Water conducts water quality monitoring activities.</li><li>A Water Quality Report for the City of Taunton has been drafted.</li><li>High fecal coliform counts were reported to the responsible parties.</li></ul>                                                                                                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"><li>Activities to proceed as noted in the Measurable Goal's column.</li></ul>                                                                                                                                                                       |
| Revised  |                                                   |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                       |
| 2-5      | Conduct Attitude Surveys                          | Taunton Conservation Commission<br>Taunton Ecology Awareness Movement                                       | Summer – Fall '04 & '07 <ul style="list-style-type: none"><li>Identify the locations throughout the City where the stormwater awareness survey is available for completion.</li><li>Send a press release explaining the stormwater awareness survey to the local newspapers.</li><li>Track the number of completed surveys.</li><li>Compile surveys in order to gauge any change in attitude/behavior regarding stormwater issues.</li></ul>                              | No activities were scheduled for Permit Year 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"><li>Activities to proceed as noted in the Measurable Goal's column.</li></ul>                                                                                                                                                                       |

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| Revised |  |  |  |  |  |
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2. Public Involvement and Participation

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|---------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-6     | Co-sponsor Storm Drain Stenciling Activities | Taunton Conservation Commission<br>Taunton Department of Public Works<br>Taunton Ecology Awareness Movement | Summer '05/07 <ul style="list-style-type: none"><li>Identify areas where stenciling will take place and establish schedule for the activity.</li><li>Track the number of drains stenciled each year.</li><li>Track the number of volunteers assisted in the stenciling activity.</li><li>Summarize the condition of the inlet surveyed.</li><li>Publicize storm drain stenciling event(s) via a press release to local newspapers.</li></ul> | Storm drains were stenciled during Permit Year 11. Approximately 100 storm drains were stenciled. | <ul style="list-style-type: none"><li>Continue to stencil storm drains during Permit Year 12. The City of Taunton will stencil at least 100 storm drains during Permit Year 12.</li></ul> |
| Revised |                                              |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                   |                                                                                                                                                                                           |

2a. Additions

There are no additions at this time.



3. Illicit Discharge Detection and Elimination

| BMP ID # | BMP Description                                               | Responsible Dept./Person Name                                                                    | Measurable Goal(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Progress on Goal(s) – Permit Year 11<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                                                                                                                                              | Planned Activities – Permit Year 12                                                                                                                                                                                                                                                                                                                                        |
|----------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-1      | Field Verify Outfall Locations                                | Taunton Department of Public Works                                                               | Spring '06 – Winter '07/08 <ul style="list-style-type: none"><li>Develop a schedule for outfall verification and outfall identification activities.</li><li>Perform and track the outfall verification and outfall identification activities as scheduled.</li><li>Continuously update the storm drainage system map as new components are added to the municipal storm drainage system.</li></ul>                                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"><li>The City of Taunton has updated the storm drainage system map as new components were added.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"><li>The City of Taunton plans to restart dry-weather sampling of outfalls during Permit Year 12.</li><li>The City of Taunton plans to restart drainage inspections during Permit Year 12.</li></ul>                                                                                                                                      |
| Revised  |                                                               |                                                                                                  | Spring '11 – Spring '14 <ul style="list-style-type: none"><li>Update GIS drainage system mapping through visual inspection of drain structures. Drain manholes, catch basins, and outfalls will be inspected and mapped. Approximately 25% of the drain system will be inspected each year.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                            |
| 3-2      | Adopt a Stormwater Ordinance                                  | Taunton Planning Department<br>Taunton Conservation Commission<br>Taunton Engineering Department | Winter '09/10 <ul style="list-style-type: none"><li>Draft the Stormwater Ordinance.</li></ul> Spring '10 <ul style="list-style-type: none"><li>Present the Stormwater Ordinance for a vote of acceptance at the Municipal Council.</li></ul> Spring '10 – Winter '10/11 <ul style="list-style-type: none"><li>Track the number of enforcement actions taken.</li><li>Post Stormwater Ordinance on City's web site.</li></ul>                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"><li>The DPW reviewed the draft stormwater ordinance.</li><li>The draft stormwater ordinance was discussed in the public works committee meeting of the City Council in January 2014. In February 2014, the draft stormwater ordinance was discussed as part of the ordinance committee meeting of the City Council.</li></ul>                                                                                                                                                             | <ul style="list-style-type: none"><li>The City of Taunton plans on adopting the stormwater ordinance during Permit Year 12.</li></ul>                                                                                                                                                                                                                                      |
| Revised  |                                                               |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                            |
| 3-3      | Implement an Illicit Discharge Detection and Elimination Plan | Taunton Department of Public Works                                                               | Spring '11-Spring '14 <ul style="list-style-type: none"><li>Inspect and dry weather sample 25% of the outfalls each year.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"><li>Phase 9 SSES program took place in 2013.</li><li>The City of Taunton is working to resolve and determine the source of illicit discharges.</li></ul>                                                                                                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"><li>Activities to proceed as noted in the Measurable Goal's column.</li><li>The Phase 10 SSES program will take place in 2014.</li><li>The City of Taunton will inspect 25% of the outfalls and perform dry-weather sampling.</li><li>The City of Taunton will continue to resolve the source of potential illicit discharges.</li></ul> |
| Revised  |                                                               |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                            |
| 3-4      | Establish a Formal Septic System Management Program (SSMP)    | Taunton Board of Health<br>Office of Economic and Community Development                          | Spring '03 – Winter '07/08 <ul style="list-style-type: none"><li>Track the number of septic system pumping companies licensed by the City each year.</li><li>Track the number of septic system installers that are licensed by the City each year.</li><li>Track the number of Certificates of Compliance issued each year.</li><li>Track the number of failed septic systems identified each year and action taken.</li><li>Track the number of property owners that participate in the Water Pollution Abatement Trust (WPAT).</li><li>Provide pamphlets that summarize requirements of the Title V program.</li><li>Board of Health employees will attend trainings on the septic systems.</li></ul> | <ul style="list-style-type: none"><li>The Board of Health and Office of Economic and Community Development track the required information.</li><li>There were 36 septic system pumping companies with a total of 117 trucks and 44 septic system installers licensed by the City of Taunton.</li><li>For 2013, 206 Disposal Work Construction Permits were issued.</li><li>Approximately 25 failed septic systems were identified during 2013.</li><li>6 property owners participated in the Septic Loan Program.</li></ul> | <ul style="list-style-type: none"><li>Activities to proceed as noted in the Measurable Goal's column.</li></ul>                                                                                                                                                                                                                                                            |
| Revised  |                                                               |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                            |



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| 3-5     | Conduct a Sewer Separation Program | Taunton Department of Public Works | Winter '07/08 – Winter '13 <ul style="list-style-type: none"><li>Develop and implement a program to separate the sanitary and stormwater sewer systems.</li></ul> | <ul style="list-style-type: none"><li>The City of Taunton is tracking the sanitary sewer capital improvement projects conducted.</li><li>The City of Taunton has continued to implement projects to separate the sanitary and stormwater sewer systems.</li><li>The Phase 9 SSES program performed the following work:</li><li>On Weir Street, replaced 500 lf of brick drain with RCP drain pipe. Eight sewer service laterals were disconnected from drain lines and re-directed them to the sewer. A combined manhole was replaced with a dedicated sewer manhole near Taunton Green to eliminate a cross-connection which was leaking wastewater into drain. Completed various drainage improvements in the area of the Taunton Green to eliminate cross-connections between sewer and drain, which were contributing sewer to the drain system and Mill River.</li><li>On Johnson Court, installed 60 lf of 10” drain to re-direct existing CB away from sewer line and into drain line.</li><li>On Hill Street, performed 5 spot repairs on brick drain pipe to facilitate access for cleaning and CIPP lining to prevent collapse.</li><li>On High Street, removed two sewer service laterals from storm drain and connected to sewer. A drain manhole and 300 lf of damaged brick drain was replaced.</li><li>On Whittenton Street, three sewer service laterals were removed from drain and redirected to sewer lines.</li><li>On Washington Street, five combined manholes were separated to eliminate cross-connections between drain and sewer.</li><li>Installed approx. 10,000 lf of CIPP on Bay Street (sewer), First Street (sewer), Everett Street (sewer), W. Weir Street (sewer), Washington Street (drain), and Broadway (drain).</li></ul> | <ul style="list-style-type: none"><li>Activities to proceed as noted in the Measurable Goal’s column.</li><li>In permit year 12, the City of Taunton will continue to develop and implement projects to separate the sanitary and stormwater sewer systems.</li><li>Currently, the scope of the Phase 10 SSES program includes the following work:</li><li>CIPP-lining of approx. 38,000 lf. of pipe including 1,400 lf of brick drain on Weir Street, 640 lf of brick drain on Dana Street, 450 lf of brick drain on N. Pleasant/Washington Street, 350’ of VC drain on Tremont Street, 900 lf of brick drain on High Street, 450 lf of brick drain on Hill Street., and 480 lf of brick drain on Winthrop Street</li><li>Within Tremont Street area, replace a culvert near 174 Tremont Street to restore flow since existing culvert is blocked by roots from nearby ash tree, replace 250 lf of collapsing 8 VC sewer, separate 8 combined manholes, and remove combined manhole at Cobb Brook and re-route drain connection to brook to eliminate possible sewer discharge to brook.</li><li>On Hopewell Street, separate a combined manhole containing sewer and underdrain, and repair underdrain outfall to Mill River. This will eliminate cross-connection which could allow sewer into the river at high flow conditions.</li><li>At Washington Street, separated one combined manhole to eliminate cross-connection between drain and sewer.</li><li>On Fern Street, replace 400 lf of drain and re-direct to catch basins from sewer to drain.</li><li>On West Britannia Street, eliminate two combined manholes.</li><li>On State Street and Lawrence Street, thee combined manholes will be eliminated.</li><li>On Howard Street, the drain between Howard Street and Mill River wil be replaced. Two catch basins will be re-directed to drain away from sewer.</li></ul> |
| Revised |                                    |                                    |                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

3a. Additions

There are no additions at this time.

4. Construction Site Stormwater Runoff Control

| BMP ID # | BMP Description                                             | Responsible Dept./Person Name                                                               | Measurable Goal(s)                                                                                                                                                                                                                                                                                                          | Progress on Goal(s) – Permit Year 11<br>(Reliance on non-municipal partners indicated, if any)                                                                                              | Planned Activities – Permit Year 12                                                                             |
|----------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 4-1      | Develop a Site Inspection Form and Conduct Site Inspections | Taunton Planning Board<br>Taunton Engineering Department<br>Taunton Conservation Commission | Spring '07 – Winter '07/08 <ul style="list-style-type: none"><li>Develop a Site Inspection Form that reflects the ESC.</li><li>Track the frequency of inspections conducted for each site.</li><li>Track the completion of inspection forms.</li><li>Track the number of failed ESC BMPs discovered on each site.</li></ul> | No activities scheduled for Permit Year 11.                                                                                                                                                 | <ul style="list-style-type: none"><li>Activities to proceed as noted in the Measurable Goal's column.</li></ul> |
| Revised  |                                                             |                                                                                             |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                             |                                                                                                                 |
| 4-2      | Develop and Implement a Citizen Tip Line                    | Taunton Department of Public Works<br>Taunton Web Master                                    | Spring '06 – Winter '07/08 <ul style="list-style-type: none"><li>Advertise that DPW will accept calls on stormwater issues.</li><li>Track the number of complaints received at the DPW regarding stormwater issues.</li><li>Track the problems/incidents remedied as a result of calls to the DPW.</li></ul>                | <ul style="list-style-type: none"><li>The DPW handles all calls concerning stormwater issues.</li><li>The complaints and remedies concerning stormwater issues have been tracked.</li></ul> | <ul style="list-style-type: none"><li>Activities to proceed as noted in the Measurable Goal's column.</li></ul> |
| Revised  |                                                             |                                                                                             |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                             |                                                                                                                 |

4a. Additions

There are no additions at this time.

5. Post-Construction Stormwater Management in New Development and Redevelopment

| BMP ID # | BMP Description                                              | Responsible Dept./Person Name                                                      | Measurable Goal(s)                                                                                                                                                                                                                                                                                                                                                                  | Progress on Goal(s) – Permit Year 11<br>(Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 12                                                                             |
|----------|--------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 5-1      | Revise Site Plan Review Submission Requirements & Procedures | Taunton Planning Department<br>Taunton Planning Board<br>Taunton Municipal Council | Winter '05/06 <ul style="list-style-type: none"><li>Develop the amendment to Section XV of the Zoning Ordinance (Site Plan Review).</li></ul> Spring '07 <ul style="list-style-type: none"><li>Submit the amendment to the Planning Board and hold a public hearing.</li><li>Submit the proposed amendment to the Municipal Council for acceptance into the Zoning Bylaw.</li></ul> | No activities scheduled for Permit Year 11.                                                    | <ul style="list-style-type: none"><li>Activities to proceed as noted in the Measurable Goal's column.</li></ul> |
| Revised  |                                                              |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                |                                                                                                                 |

5a. Additions

There are no additions at this time.

6. Pollution Prevention and Good Housekeeping in Municipal Operations

| BMP ID # | BMP Description                                              | Responsible Dept./Person Name                       | Measurable Goal(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Progress on Goal(s) – Permit Year 11<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                         | Planned Activities – Permit Year 12                                                                                                                                                                                                                                                                       |
|----------|--------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6-1      | Develop a Formal Training Program for DPW Staff              | Taunton Department of Public Works                  | Spring '06<br>Revise date to Spring '07 <ul style="list-style-type: none"><li>Establish a formal training program for DPW employees.</li></ul> Spring '06 – Winter '07/08<br>Revise date to Spring '07 – Winter '07/08 <ul style="list-style-type: none"><li>Conduct training sessions with all current employees.</li><li>Train all new DPW employees in accordance with the training program requirements.</li><li>Track the number of employees trained.</li><li>Conduct refresher training for employees after every two years of employment.</li></ul> | <ul style="list-style-type: none"><li>The City of Taunton trains new employees on practices within the DPW Garage.</li></ul>                                                                                                                                                                                                                                           | <ul style="list-style-type: none"><li>Activities to proceed as noted in the Measurable Goal's column.</li><li>The City of Taunton plans to perform a stormwater audit of the DPW Garage in Permit Year 12. As part of the audit, a formal stormwater training program will be formalized.</li></ul>       |
| Revised  |                                                              |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                           |
| 6-2      | Develop a Formal Catch Basin Cleaning Program                | Taunton Department of Public Works Highway Division | Spring '06 – Winter '07/08 <ul style="list-style-type: none"><li>Use a street inventory to prioritize catch basins for cleaning by street.</li><li>Clean a minimum of ten percent of catch basins per year.</li><li>Document annual cleaning activities.</li></ul>                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"><li>The City cleaned over 15,000 linear feet of drain pipe and approx.. 75 catch basins by the City and private contractors in permit year 11.</li><li>The cleaning activities have been documented.</li><li>The City purchased an additional catch basin cleaning truck to assist in the catch basin cleaning activities.</li></ul> | <ul style="list-style-type: none"><li>Activities to proceed as noted in the Measurable Goal's column.</li><li>Continue to clean catch basins and storm drain pipes using city employees and private contractors during permit year 12.</li></ul>                                                          |
| Revised  |                                                              |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                           |
| 6-3      | Upgrade the Existing Parking Lot and Street Sweeping Program | Taunton Department of Public Works Highway Division | Spring '04 <ul style="list-style-type: none"><li>Purchase a second street sweeper.</li></ul> Summer '04 – Winter '07/08 <ul style="list-style-type: none"><li>Conduct an inventory of all publicly owned streets and parking lots.</li><li>Annually update and prioritize streets and lots for sweeping activities.</li><li>Develop a schedule for conducting sweeping activities.</li><li>Track the streets and lots that are swept each year.</li><li>Maintain a log of the disposed materials.</li></ul>                                                 | <ul style="list-style-type: none"><li>An inventory of all publicly owned streets and parking lots has been conducted.</li><li>The sweeping activities have been documented.</li><li>The City purchased an additional street sweeper to assist in the street sweeping activities.</li></ul>                                                                             | <ul style="list-style-type: none"><li>Activities to proceed as noted in the Measurable Goal's column.</li><li>The City plans to continue to sweep publicly owned streets and parking lots during permit year 12.</li></ul>                                                                                |
| Revised  |                                                              |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                           |
| 6-4      | Develop a Vehicle & Equipment Maintenance Policy             | Taunton Department of Public Works                  | Spring '06 <ul style="list-style-type: none"><li>Develop and implement a vehicle and equipment maintenance policy and incorporate policy requirements into the DPW employee training programs.</li></ul>                                                                                                                                                                                                                                                                                                                                                    | <ul style="list-style-type: none"><li>A Vehicle Maintenance Garage and associated area has been designated.</li><li>The DPW has designated a “Spill Coordinator” that responds to all spills.</li><li>New employees are informed of these policies.</li></ul>                                                                                                          | <ul style="list-style-type: none"><li>Activities to proceed as noted in the Measurable Goal's column.</li><li>The City of Taunton plans to perform a stormwater audit of the DPW Garage in Permit Year 12. As part of the audit, a vehicle and equipment maintenance policy will be formalized.</li></ul> |
| Revised  |                                                              |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                           |
| 6-5      | Develop a Vehicle & Equipment Cleaning Policy                | Taunton Department of Public Works                  | Spring '06 <ul style="list-style-type: none"><li>Develop and implement a vehicle and equipment cleaning policy and incorporate policy requirements into the DPW employee training programs.</li></ul>                                                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"><li>An area has been designated for the cleaning of vehicles and equipment.</li><li>There's an oil/water separator that everything drains to.</li><li>New employees are informed of these policies.</li></ul>                                                                                                                        | <ul style="list-style-type: none"><li>Activities to proceed as noted in the Measurable Goal's column.</li><li>The City of Taunton plans to perform a stormwater audit of the DPW Garage in Permit Year 12. As part of the audit, a vehicle and equipment cleaning policy will be formalized.</li></ul>    |
| Revised  |                                                              |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                           |

6a. Additions

There are no additions at this time.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>

| BMP ID # | BMP Description                      | Responsible Dept./Person Name | Measurable Goal(s)                                                                                                                                                       | Progress on Goal(s) – Permit Year 11<br>(Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 12                                              |
|----------|--------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 7-1      |                                      |                               |                                                                                                                                                                          | During Permit Year 11, the City of Taunton researched educational materials on pet waste.      | Develop and distribute educational materials on pet waste at the Animal Shelter. |
| Revised  | Pooper Scooper Educational Materials | Department of Public Works    | Spring/Summer 2013<br>Develop educational materials on pet waste.<br><br>Spring/Summer 2014<br>Distribute educational materials at Animal Shelter and with dog licenses. |                                                                                                |                                                                                  |
|          |                                      |                               |                                                                                                                                                                          |                                                                                                |                                                                                  |
| Revised  |                                      |                               |                                                                                                                                                                          |                                                                                                |                                                                                  |
|          |                                      |                               |                                                                                                                                                                          |                                                                                                |                                                                                  |
| Revised  |                                      |                               |                                                                                                                                                                          |                                                                                                |                                                                                  |
|          |                                      |                               |                                                                                                                                                                          |                                                                                                |                                                                                  |
| Revised  |                                      |                               |                                                                                                                                                                          |                                                                                                |                                                                                  |
|          |                                      |                               |                                                                                                                                                                          |                                                                                                |                                                                                  |
| Revised  |                                      |                               |                                                                                                                                                                          |                                                                                                |                                                                                  |
|          |                                      |                               |                                                                                                                                                                          |                                                                                                |                                                                                  |
| Revised  |                                      |                               |                                                                                                                                                                          |                                                                                                |                                                                                  |

7a. Additions

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |

7b. WLA Assessment

#### Part IV. Summary of Information Collected and Analyzed

The Taunton River Watershed Alliance (TRWA) and Veolia Water collect water samples throughout the Taunton River Watershed through a collaborative monitoring project. There are three purposes for the monitoring: develop baseline characterization data, measure changes in the watershed over time, and screen for water quality problems. After the end of the year, a report titled Annual Water Quality Report – Taunton River & Tributaries – 2013 was completed to document the sampling activities and results.

For 2013, sampling was performed on the second Tuesday of the month from March through November (weather dependent) between the hours of 4:30 a.m. and 8:30 a.m. Sampling was not performed in January, February, and December due to safety concerns from snow and ice on the bridges and because colder water has higher dissolved oxygen content and so the oxygen stress on the river is greatly reduced. In 2013, the sampling team tested fifteen sites. These sites were chosen for several reasons including to cover a representative area of the City's waterways, to include any known problem area or areas of critical concern, and to target areas where no previous water quality data existed. The following chart lists the monitoring locations for 2012.

| STREET/BRIDGE LOCATION                                                          | RIVER                    | GPS Location                 | ID     |
|---------------------------------------------------------------------------------|--------------------------|------------------------------|--------|
| SOMERSET AVE, RT. 138                                                           | THREE MILE               | N41°51/W71°06                | TMR 01 |
| ROUTE 44/COHANNET ST.                                                           | THREE MILE               | N41°53/W71°08                | TMR 02 |
| SOLITUDE DRIVE/TAUNTON                                                          | THREE MILE               | N41°56/W71°09                | TMR 03 |
| INGELL ST./TAUNTON                                                              | MILL                     | N41°89/W71°8                 | MIL 01 |
| WASHINGTON ST./TAUNTON                                                          | MILL RIVER               | N41°54/W71°5                 | MIL02  |
| WHITTENDON ST./TAUNTON                                                          | MILL RIVER               | N41°55/W71°6                 | MIL03  |
| CENTER ST., BERKLEY BRIDGE                                                      | TAUNTON RIVER            | N41°50/W71°06                | TNT 01 |
| PLAIN ST., TAUNTON                                                              | TAUNTON RIVER            | N41°53/W71°05                | TNT 02 |
|                                                                                 | COTLEY BROOK             |                              | COT01  |
| ELM ST & SCOTLAND TOWN LINE W. BRIDGEWATER                                      | TOWN RIVER               | N41.992197/W71.026070        | TWN01  |
| RT. 79, ASSONET CENTER BRIDGE                                                   | ASSONET RIVER            | N 41 47 45.2<br>W 71 03 56.7 | ASO 01 |
| HIGHSTONE ST., E. TAUNTON                                                       | TOMSON BROOK             | N41°51-46/W70°58-40          | TBR 01 |
| PRECINCT ST., ROUTE 44                                                          | FURNACE BROOK            | N41°53-35/W71°0-05           | FBR 01 |
| PAYNES COVE, 90 S. MAIN ST., ASSONET                                            | ASSONET RIVER            | N41°47/W71°05                | PCO    |
| SOUTH OF BERKLEY BRIDGE, EAST OF TAUNTON RIVER, WHERE IT CROSSES BERKLEY STREET | CHUCKAMUCKSE<br>TT BROOK |                              | BER-T  |

Veolia Water tested the samples for eight parameters. The parameters are temperature, dissolved oxygen, pH, total phosphorus, nitrate-nitrogen, fecal coliform bacteria, total suspended solids, and salinity. The following charts display a summary of the results for fecal coliform bacteria and total phosphorus.

| <b>Fecal Coliform 2013 (colonies/100 ml)</b> |              |            |             |             |            |             |            |            |
|----------------------------------------------|--------------|------------|-------------|-------------|------------|-------------|------------|------------|
| <b>Site</b>                                  | <b>April</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sept</b> | <b>Oct</b> | <b>Nov</b> |
| <b>TMR 02</b>                                | 0            | 84         | 286         | 89          | 71         | 88          | 84         |            |
| <b>TMR 03</b>                                |              |            |             |             |            |             |            |            |
| <b>TBR 01</b>                                | 11           | 84         | 1390        | 54          | 31         | 46          | 0          | 6          |
| <b>FBR 01</b>                                | 3            | 23         | 1130        | 88          | 77         | 164         | 92         | 9          |
| <b>QBR</b>                                   |              |            |             |             |            |             |            |            |
| <b>TNT 01</b>                                | 60           | 60         | 870         | 104         |            | 64          | 215        |            |
| <b>TNT 02</b>                                | 11           | 43         | 367         | 66          |            | 188         | 37         |            |
| <b>TMR 01</b>                                | 9            | 23         | 197         | 76          |            | 104         | 116        |            |
| <b>TWN01</b>                                 | 11           | 40         | 128         |             | 96         | 176         |            |            |
| <b>MIL 01</b>                                | 182          | 1020       | 1200        | 400         | 1870       | 880         |            |            |
| <b>MIL 02</b>                                | 34           | 132        | 600         | 350         | 610        | 240         |            |            |
| <b>MIL 03</b>                                | 43           | 130        | 670         | 490         | 910        | 220         |            |            |
| <b>PCO 01</b>                                | 0            |            |             |             | 92         | 49          | 51         |            |
| <b>COT 01</b>                                | 14           | 20         | 880         |             | 43         | 192         | 17         | 9          |
| <b>ASO 01</b>                                | 3            |            |             |             | 112        | 43          | 0          |            |
| <b>BER-1</b>                                 | 540          | 47         | 830         |             | 340        | 188         | 71         | 46         |

| <b>TOTAL PHOSPHORUS VALUES FOR 2013 (mg/l)</b> |              |            |             |             |            |             |            |            |
|------------------------------------------------|--------------|------------|-------------|-------------|------------|-------------|------------|------------|
| <b>Site</b>                                    | <b>April</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sept</b> | <b>Oct</b> | <b>Nov</b> |
| <b>TMR 02</b>                                  | 0            | 0.05       | 0.08        | 0.22        | 0.07       | 0           | 0.05       |            |
| <b>TMR 03</b>                                  |              |            |             |             |            |             |            |            |
| <b>TBR 01</b>                                  | 0.07         | 0.07       | 0.09        | 0.1         | 0.07       | 0.15        | 0.1        | 0.07       |
| <b>FBR 01</b>                                  | 0            | 0          | 0.1         | 0.11        | 0.08       | 0.07        | 0.08       | 0.24       |
| <b>QBR</b>                                     |              |            |             |             |            |             |            |            |
| <b>TNT 01</b>                                  | 0.06         | 0.11       | 0.14        | 0.23        |            | 0.11        | 0.23       |            |
| <b>TNT 02</b>                                  | 0.1          | 0.07       | 0.14        | 0.17        |            | 0.1         | 0.05       |            |
| <b>TMR 01</b>                                  | 0            | 0.05       | 0.07        | 0.22        |            | 0.07        | 0.1        |            |
| <b>TWN01</b>                                   | 0            | 0.07       | 0.1         |             | 0.14       | 0.09        |            |            |
| <b>MIL 01</b>                                  | 0            | 0          | 0.1         | 0.1         | 0.12       | 0.05        |            |            |
| <b>MIL 02</b>                                  | 0            | 0          | 0.06        | 0.1         | 0.1        | 0.08        |            |            |
| <b>MIL 03</b>                                  | 0            | 0          | 0.06        | 0.08        | 0.09       | 0.06        |            |            |
| <b>PCO 01</b>                                  | 0            |            |             |             | 0.09       | 0.1         | 0.07       |            |
| <b>ASO 01</b>                                  | 0            |            |             |             | 0.17       | 0.14        | 0.12       |            |
| <b>BER-T</b>                                   | 0.09         | 0.08       | 0.11        |             | 0.06       | 0.07        | 0.1        | 0.05       |