Municipality/Organization: City of Amesbury

EPA NPDES Permit Number: MAR041177

MassDEP Transmittal Number: W-035560

Annual Report Number
& Reporting Period: No. 15: May 1, 2017-April 30, 2018

NPDES PII Small MS4 General Permit
Annual Report

Part I. General Information

Contact Person: Robert Desmarais
Title: Director of Public Works

Telephone #: (978) 388-8116
Email: rob@amesburyma.gov

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:

Printed Name: Robert Desmarais
Title: Director
Date: 5/1/2018
Part II. Self-Assessment

The City of Amesbury has completed the required self-assessment of the annual compliance review for the Phase II Stormwater Program. In accordance with the NPDES Phase II Stormwater requirements, the following topics were evaluated for the completion of the Annual Report:

1. Compliance with the Phase II Permit Conditions
2. Appropriateness of the Selected BMPs
3. Progress Towards Achieving the Program’s Measurable Goals
4. Results of Any Information that has been Collected and Analyzed
5. Activities for the Next Reporting Cycle
6. Changes in Identified BMPs or Measurable Goals

The City has determined that our municipality is in compliance with all permit conditions.
### Part III. Summary of Minimum Control Measures

#### 1. Public Education and Outreach

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1a</td>
<td>Publish information on voluntary yard waste program</td>
<td>City Engineer</td>
<td>Publish in newspaper various times</td>
<td>The City continued to publish information regarding the hours of operation, location, materials to be collected, etc. for the yard waste program on the City webpage as outlined in BMP 1d. Amesbury runs a composting site on South Hunt Road where residents may dump yard waste such as grass, leaves and brush in an environmentally friendly manner. Additionally, leaves are collected five times per year via curbside pickup.</td>
<td>The City will continue to advertise and conduct the yard waste collection program. Amesbury will continue to maintain the new composting site.</td>
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<td>Revised</td>
<td>Advertise opportunities for yard waste disposal via the website and conventional print methods</td>
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<td>1b</td>
<td>Publish information about household hazardous waste program</td>
<td>City Engineer</td>
<td>Publish flyers and notices in paper and radio in the spring</td>
<td>The City published information regarding the household hazardous waste (HHW) disposal opportunities, dates, hours of operation, location, and materials to be collected on posters hung in public places, as well as on the Town's website and in the Newburyport Daily News prior to the June 3, 2017 event. The collection event was also advertised on the City webpage as outlined in BMP 1d. This program helps to reduce illegal dumping of wastes in sensitive areas.</td>
<td>The City will continue to advertise and conduct its HHW disposal program, as well as advertise those available through outside organizations such as in neighboring towns. Continue to explore alternative advertising methods to increase community awareness and participation.</td>
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<td>1c</td>
<td>Publish educational brochure</td>
<td>City Engineer</td>
<td>Coordinate with public awareness group and update annually</td>
<td>Stormwater brochures were provided to residents for download on the City’s website as outlined in BMP 1d. Brochures included general info on stormwater topics, such as fertilizers, pesticides, vehicle washing, proper pet waste collection and disposal, yard waste composting, and disposal of HHW.</td>
<td>The City will continue to provide educational materials. It is anticipated that the public education campaign will be expanded to address new permit requirements for different audiences once it becomes effective. Review opportunities to provide additional public information materials to target audiences to meet new permit requirements for public education once it becomes effective.</td>
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<td>1d</td>
<td>Post brochure on the city website</td>
<td>IS Dept.</td>
<td>Establish link and update annually</td>
<td>The City continued to host stormwater information on its website as outlined in BMP's 1a and 1b. Information includes advertising HHW and universal waste disposal opportunities, and yard waste disposal opportunities, including composting. Brochures and flyers include a Recycling and Waste Information Guide, Home Composting How-To Guide and Compost Information.</td>
<td>Continue to periodically update the website with information on stormwater and provide information on upcoming public events. Expand and update the website with information related to target audiences to meet new permit requirements for public education once it becomes effective.</td>
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**1a. Additions**

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<tr>
<td>1e</td>
<td>Install storm drain markers and stenciling</td>
<td>City Engineer with Volunteers</td>
<td>Complete installation of markers on curbs and painted stencils</td>
<td>To date, 500 markers were installed on storm drains during previous permitting years to discourage illegal dumping to the MS4 system.</td>
<td>Continue to maintain and/or replace markers and paint faded stencils as needed.</td>
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<td>1f</td>
<td>Install pet waste signs and bag dispensers</td>
<td>Dept. of Public Works/ City Engineer</td>
<td>Complete installation of pet waste signs and bag dispensers</td>
<td>The City has installed pet waste signs and bag dispensers at various park and trail head locations, including Tuxbury Pond Park Area, Lake Gardner Beach, Battis Farm, Woodsom Farm, the City Park, Lake Gardner, Woodsom Farm, as well as along various walking trails.</td>
<td>Maintain dispensers and restock bags as needed. Look for additional locations to install pet waste bag dispensers as budget allows.</td>
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<td>Install pet waste signs and bag dispensers at high-use areas</td>
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2. Public Involvement and Participation

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<tr>
<td>2a</td>
<td>Voluntary yard waste disposal program</td>
<td>Dept. of Public Works</td>
<td>Conduct Annually April-November</td>
<td>The City conducts a voluntary yard waste program between April and November where leaf waste is collected five times per year via curbside pickup. As outlined in BMP 1a, Amesbury opened a composting site on South Hunt Road for vegetation disposal, including leaves, brush, and grass clippings. This program helps to reduce illegal dumping of grass and leaves in waterways and wetland areas. Programs were advertised in a number of ways as outlined in BMP 1a.</td>
<td>The City will continue with the current yard waste collection program. Encourage residents to reuse materials at home for composting purposes via public education materials provided in conjunction with BMP 1a or to use the new City composting site.</td>
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<td>2b</td>
<td>Conduct meetings regarding stormwater management</td>
<td>Dept of Public Works/ City Engineer</td>
<td>Conduct one meeting per year</td>
<td>Amesbury continued to meet with Merrimack Valley Planning Commission (MVPC) to discuss upcoming permit requirements throughout the permit year. The Amesbury DPW periodically meets with other departments and boards such as the Conservation Commission, Planning Board, etc. to discuss stormwater topics. Discussions include current and future construction projects within the city, as well as operations and maintenance of the MS4. The Amesbury Lakes and Waterways Commission also conducts monthly open meetings to discuss lake related issues such as stormwater impacts. Meetings are open to interested members of the public. The Lakes and Waterways Commission coordinates lake cleanup efforts such as trash removal, elimination of invasive species, etc. as funds are available. The commission also actively pursues funding opportunities for lake cleanup efforts.</td>
<td>Continue to hold meetings both with internal departments and external organizations such as MVPC to discuss current and future stormwater projects. The Lakes and Waterways Commission will continue to hold open meetings throughout the year and conduct lake cleanups as resources allow.</td>
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2a. Additions

No additions at this time.
## 3. Illicit Discharge Detection and Elimination

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<td>3a</td>
<td>Map stormwater drainage system and outfalls</td>
<td>City Engineer</td>
<td>3 year program using GPS equipment with sub-meter accuracy Record GPS coordinates and map all outfalls within 3 years</td>
<td>The City has completed GPS location and mapping of 100% of City-owned outfalls during previous permitting years. A total of 312 outfalls have been recorded and incorporated into a GIS base map.</td>
<td>Continue to update existing drainage system mapping as new developments are constructed or as additional outfalls are located. Begin to map contributing catchment areas and rank outfalls based on available information as required under Illicit Discharge, Detection, and Elimination (IDDE) requirements of the new permit.</td>
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<td>3b</td>
<td>Visually inspect outfalls for dry weather flow</td>
<td>City Engineer</td>
<td>3 year program concurrent with mapping Inspect all outfalls for dry weather flows within 3 years</td>
<td>All known outfalls were inspected for dry weather flows during mapping efforts conducted during previous permitting years, and a total of 312 outfalls have been inspected to date. Mapping was completed as part of BMP 3a and potential illicit discharges are addressed under BMPs 3c and 3d.</td>
<td>Continue with follow-up observations and inspections for outfalls where dry weather flows were identified.</td>
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<td>3c</td>
<td>Develop sampling and analysis program</td>
<td>City Engineer</td>
<td>3 year program based on results of outfall inspections Identify and remove any illicit discharges within 3 years</td>
<td>During previous years, 14 outfalls were sampled to determine illicit discharge sources. Illicit discharges and cross connections were removed on Merrimac Street and Mill Street, which were removed during previous permitting years. No additional follow-up work was required during Permit Year 15.</td>
<td>All known outfalls with dry weather flows have been sampled to evaluate for potential illicit discharges. If additional dry weather flows are located or suspected illicit discharges identified, perform sampling and determine the source. Develop written sampling plans and procedures as part of the Stormwater Management Program (SWMP) Plan and IDDE Plan during the next year.</td>
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<td>3d</td>
<td>Develop a program to identify and locate illicit discharge connections</td>
<td>City Engineer</td>
<td>3 year program to test drains based on results of sampling and analysis</td>
<td>IDDE investigations have been completed for outfalls with dry weather flow that indicated potential illicit discharges.</td>
<td>Continue to follow up on any additional sources of illicit discharges and work towards elimination in conjunction with BMP 3c. Begin implementation of IDDE requirements per the required schedule under the new permit.</td>
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<td>Develop an IDDE program within 3 years</td>
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<td>3e</td>
<td>Periodically inspect outfalls</td>
<td>City Engineer</td>
<td>Inspect 25% of outfalls per year</td>
<td>As outlined in BMP 3b, all outfalls were inspected by the end of Permit Year 3. Ongoing outfall inspection continues in response to resident complaints or flooding impacts. Known problematic outfalls are proactively inspected during routine maintenance procedures for potential problems to reduce the likelihood of flooding problems during large rainfall events or heavy snow melt.</td>
<td>Continue the outfall inspection program. Begin to consider dry weather screening of all outfalls during future years, expected to begin during Year 2 or Year 3 under the new permit.</td>
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<td>Inspect outfalls for potential flooding impacts</td>
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<td>3f</td>
<td>Develop Stormwater Use Regulation prohibiting illicit discharges</td>
<td>City Engineer</td>
<td>Incorporate into comprehensive stormwater ordinance.</td>
<td>A draft Stormwater Management Ordinance addressing illicit discharges was developed and is under review by various City Departments. This was combined with BMPs 4a and 5a as a single document.</td>
<td>Review and update/implement ordinances as required once the new permit is released.</td>
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3a. Additions

No additions at this time.
4. Construction Site Stormwater Runoff Control

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<tr>
<td>4a</td>
<td>Develop a comprehensive stormwater ordinance</td>
<td>Dept. of Public Works, City Engineer, other Depts.</td>
<td>Obtain approval from Mayor and Municipal Council.</td>
<td>A draft Stormwater Management Ordinance addressing erosion controls and post-construction stormwater controls was developed and is under review by various City Departments. This was combined with BMPs 3f and 5a as a single document.</td>
<td>Review and update/implement ordinances as required once the new permit is released. Adopt and enforce the ordinance through peer review and site inspections with procedures documented under the SWMP in conjunction with BMP 4c.</td>
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<td>4b</td>
<td>Reassess stormwater management plan</td>
<td>City Engineer</td>
<td>Perform every three years</td>
<td>Numerous Phase II programs and BMPs have been implemented over the past several years or are currently taking place as outlined in the Town’s stormwater management plan. BMP progress is outlined throughout this report.</td>
<td>The SWMP Plan will be updated in conjunction with other BMPs during the next permit period to meet the requirements of the new permit. Items from all minimum measures will be incorporated as appropriate.</td>
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<td>4c</td>
<td>Require erosion and sediment control measure plan prior to construction on all projects</td>
<td>Planning Board, Conservation Commission, City Engineer</td>
<td>Conduct periodic site inspections and monitor and track violations through reports to the Conservation Commission.</td>
<td>The City Planning Board requires erosion and sedimentation control plans prior to construction. Plans are reviewed by City departments to ensure proposed BMPs are adequate. Site visits are conducted periodically by the appropriate City department (Conservation Commission, Planning Board, DFW, Engineer etc.) to assure the contractor is in compliance with the proposed plan and that erosion control measures are in place.</td>
<td>Continue to review erosion and sedimentation control plans and perform periodic site inspections as necessary. Follow up on any required actions. Incorporate plan review procedures into the written SWMP requirements and ordinances required under the new permit once it becomes effective.</td>
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4a. Additions

No additions at this time.
5. Post-Construction Stormwater Management in New Development and Redevelopment

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<tr>
<td>5a</td>
<td>Develop standards for regulating stormwater controls for all new and redevelopment projects and inspect controls</td>
<td>Planning Board, Conservation Commission, City Engineer</td>
<td>Incorporate into comprehensive stormwater ordinance.</td>
<td>A draft Stormwater Management Ordinance addressing erosion controls and post-construction stormwater controls was developed and is under review by various City Departments. This was combined with BMPs 3f and 4a as a single document.</td>
<td>Review and update/implement ordinances as required once the new permit is released. Adopt and enforce the ordinance through peer review and site inspections with procedures documented under the SWMP in conjunction with BMP 4c.</td>
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5a. Additions

No additions at this time.

6. Pollution Prevention and Good Housekeeping in Municipal Operations

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<td>6a</td>
<td>Street sweeping</td>
<td>Department of Public Works</td>
<td>Continue program of sweeping twice annually. Track volume of material collected by area. Sweep in late spring and fall with additional sweeping during severe winters.</td>
<td>All streets are swept in the City at least once annually. Higher priority areas, such as those traveled more frequently or subject to heavier sediment accumulation are swept more frequently as needed (downtown area and 1st through 5th streets). All street sweeping materials are properly disposed of as regulated by MassDEP.</td>
<td>Continue annual street sweeping, with special priority given to areas of heavier debris accumulation for additional sweeping. Review the need for a targeted sweeping plan for rural, uncurbed roadways.</td>
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<td>6b</td>
<td>Deicing</td>
<td>Department of Public Works</td>
<td>Continue program of using Ice Ban to enhance melting</td>
<td>Ice Ban is no longer used.</td>
<td>The City does not intend to use Ice Ban in the future.</td>
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<td>6c</td>
<td>Develop Spill Prevention Control Plan</td>
<td>Department of Public Works</td>
<td>Implement Plan and train employees within one year</td>
<td>A database for all facilities in the City that require an SPCC plan was completed during previous permit years to help promote pollution prevention throughout the City. Facilities include the DPW Yard and Wastewater Treatment Facility. SPCC plans are maintained and updated as necessary for each facility.</td>
<td>Maintain and update the database with additional facilities as required in conjunction with BMP 6j. Provide facilities with information on regulatory requirements and additional information such as fact sheets. Perform annual training and updated SPCC plans as required by applicable regulations.</td>
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<td>6d</td>
<td>Catch basin cleaning</td>
<td>Department of Public Works</td>
<td>Continue program of catch basin cleaning twice annually. Track volume of material removed by area.</td>
<td>Catch basins are cleaned at least every two years, with high priority catch basins cleaned more frequently. Approximately 1,500 catch basins were cleaned once during Permit Year 15. Catch basins are replaced as required, typically with deep sumps for more sediment storage and pretreatment.</td>
<td>Continue to clean catch basins as funding allows. Also clean other BMPs such as Vortechs units in residential areas and baffle tanks in residential and commercial areas as resources are available. Begin review and preparation of a catch basin optimization plan.</td>
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<tr>
<td>6e</td>
<td>Trash removal and recycling</td>
<td>Department of Public Works</td>
<td>Continue program of trash removal weekly and curbside recycling biweekly</td>
<td>The curbside trash removal and recycling program was conducted and advertised as outlined in BMP 1b.</td>
<td>Continue with current disposal program. Explore ways to increase participation and expand advertising efforts in conjunction with BMP 1b.</td>
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<td>6f</td>
<td>Yard waste disposal</td>
<td>Department of Public Works</td>
<td>Continue voluntary program for resident drop-off of yard waste April-November</td>
<td>The yard waste collection program was conducted and advertised as outlined in BMPs 1a and 2b.</td>
<td>Continue holding yard waste drop-off events. Explore ways to increase participation and expand advertising efforts in conjunction with BMP 1a.</td>
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<td>6g</td>
<td>Household hazardous waste program</td>
<td>Department of Public Works</td>
<td>Continue annual program of conducting a collection day for household hazardous waste</td>
<td>Amesbury held a HHW day on June 3, 2017 for Permit Year 15. The event was advertised as outlined in BMP 1b. Amesbury also cooperates with Newburyport, Lynn, Saugus, Boxford, Middleton, and Topsfield to allow resident to attend events held in other communities at different times of year.</td>
<td>Continue to hold a HHW disposal day at least annually during the next permit year. Advertise the event through available media such as television, newspaper and internet in conjunction with BMP 1b.</td>
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<tr>
<td>6h</td>
<td>Develop storm drain flushing program</td>
<td>Department of Public Works</td>
<td>Flushing reports of pipe sections completed.</td>
<td>Pipe sections were flushed as needed, generally in response to flooding complaints received from residents or concerns raised during routine inspection procedures. Sections are flushed to remove excess sediment and reduce flooding problems.</td>
<td>Continue the current storm drain pipe flushing program.</td>
</tr>
<tr>
<td>Revised</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6i</td>
<td>Television inspection of storm drains</td>
<td>Department of Public Works</td>
<td>Inspection reports of pipe sections completed.</td>
<td>No additional pipe sections were TV inspected during Permit Year 15.</td>
<td>Continue TV inspections as required, pending budget and personnel allowances.</td>
</tr>
<tr>
<td>Revised</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6j</td>
<td>Require Spill Control Plans from all non-residential establishments</td>
<td>Department of Public Works</td>
<td>Inspection reports and plans.</td>
<td>A database for all facilities in the City that require an SPCC plan was completed during previous permit years to help promote pollution prevention throughout the City as outlined in BMP 6c. Facilities include the DPW Yard and Wastewater Treatment Facility. SPCC plans are maintained and updated as necessary for each facility.</td>
<td>Maintain and update the database with additional facilities as required in conjunction with BMP 6c. Provide facilities with information on regulatory requirements and additional information such as fact sheets.</td>
</tr>
<tr>
<td>Revised</td>
<td>Require Spill Control Plans from all applicable establishments</td>
<td>Department of Public Works</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6a. Additions

No additions at this time.
7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)  

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
<th>Responsible Dept./Person Name</th>
<th>Measurable Goal(s)</th>
<th>Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)</th>
<th>Planned Activities – Next Permit Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>7a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Revised</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7a. Additions

No additions at this time.

7b. WLA Assessment

MassDEP has prepared the Final 2014 Integrated List of Waters. The following waterbodies are listed as Category 5, “Waters Requiring a TMDL”:

1. Lake Attitash: segment ID MA84002; impaired for Mercury in Fish Tissue
2. Back River: segment ID MA84A-16; impaired for Escherichia coli, Sedimentation/Siltation, Turbidity
3. Powwow River: segment ID MA84A-08; impaired for Escherichia coli
4. Powwow River: segment ID MA84A-25; impaired for Escherichia coli
5. Powwow River: segment ID MA84A-28; impaired for Fecal Coliform, Total Suspended Solids (TSS), Turbidity
6. Unnamed Tributary to Powwow River: segment ID MA84A-30; impaired for Escherichia coli
7. Merrimack River: segment ID MA84A-05; impaired for Enterococcus, PCB in fish tissue
8. Merrimack River: segment ID MA84A-06; impaired for Enterococcus, Fecal Coliform, PCB in fish tissue

There are currently no waterbodies in Amesbury subject to an approved TMDL. Once TMDLs are developed for any of the above waterbodies, Section 7 of the annual reports will be updated to reflect changes associated with each TMDL. Water quality concerns associated with 303d waters are also addressed through the implementation of BMPs under the six minimum measures for Phase II. The approach for addressing impaired waters will be updated based on the new permit.
Part IV. Summary of Information Collected and Analyzed

Locations and physical descriptions of approximately 312 outfalls have been gathered since Permit Year 1. Copies of all educational materials and memos distributed have been kept on file. Meeting memos and phone logs have also been kept on file. To date, 14 outfalls have been sampled and a total of 8 dry weather flow sources have been investigated.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

| Stormwater management position created/staffed | (y/n) | No |
| Annual program budget/expenditures | ($) | 45,000 |

Education, Involvement, and Training

| Estimated number of residents reached by education program(s) | (# or %) | 10% |
| Stormwater management committee established | (y/n) | N |
| Stream teams established or supported | (# or y/n) | Y |
| Shoreline clean-up participation or quantity of shoreline miles cleaned | (y/n or mi.) | 0 |
| Household Hazardous Waste Collection Days |
|   - days sponsored | (#) | 1 |
|   - community participation | (%) | 5% |
|   - material collected | (tons or gal) | 10 tons |
| School curricula implemented | (y/n) | Y |
### Legal/Regulatory

<table>
<thead>
<tr>
<th>Regulatory Mechanism Status (indicate with “X”)</th>
<th>In Place Prior to Phase II</th>
<th>Under Review</th>
<th>Drafted</th>
<th>Adopted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illicit Discharge Detection &amp; Elimination</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Erosion &amp; Sediment Control</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Post-Development Stormwater Management</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accompanying Regulation Status (indicate with “X”)</th>
<th>In Place Prior to Phase II</th>
<th>Under Review</th>
<th>Drafted</th>
<th>Adopted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illicit Discharge Detection &amp; Elimination</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Erosion &amp; Sediment Control</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Post-Development Stormwater Management</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Mapping and Illicit Discharges

<table>
<thead>
<tr>
<th>Outfall mapping complete</th>
<th>(%)</th>
<th>100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated or actual number of outfalls</td>
<td>(#)</td>
<td>312</td>
</tr>
<tr>
<td>System-Wide mapping complete</td>
<td>(%)</td>
<td>100%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mapping method(s)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper/Mylar</td>
<td>(%)</td>
<td></td>
</tr>
<tr>
<td>CADD</td>
<td>(%)</td>
<td></td>
</tr>
<tr>
<td>GIS</td>
<td>(%)</td>
<td>100</td>
</tr>
</tbody>
</table>

| Outfalls inspected/screened                       | (# or %) | 312 |
| Illicit discharges identified                     | (#)      | 1 since Permit Year 1 |
| Illicit connections removed                       | (#)      | 1 since Permit Year 1 |
| % of population on sewer                         | (%)      | 55% |
| % of population on septic systems                | (%)      | 45% |
### Construction

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of construction starts (&gt;1-acre)</td>
<td>(#) 5</td>
</tr>
<tr>
<td>Estimated percentage of construction starts adequately regulated</td>
<td>(%) 100</td>
</tr>
<tr>
<td>for erosion and sediment control</td>
<td></td>
</tr>
<tr>
<td>Site inspections completed</td>
<td>(# or %) Dozens</td>
</tr>
<tr>
<td>Tickets/Stop work orders issued</td>
<td>(# or %) 1</td>
</tr>
<tr>
<td>Fines collected</td>
<td>(# and $) $120,000</td>
</tr>
<tr>
<td>Complaints/concerns received from public</td>
<td>(#) 1</td>
</tr>
</tbody>
</table>

### Post-Development Stormwater Management

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated percentage of development/redevelopment projects</td>
<td>(%) 100</td>
</tr>
<tr>
<td>adequately regulated for post-construction stormwater control</td>
<td></td>
</tr>
<tr>
<td>Site inspections completed</td>
<td>(# or %) Dozens</td>
</tr>
<tr>
<td>Estimated volume of stormwater recharged</td>
<td>(gpy)</td>
</tr>
</tbody>
</table>

### Operations and Maintenance

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average frequency of catch basin cleaning (non-commercial/non-arterial</td>
<td>(times/yr)</td>
</tr>
<tr>
<td>streets)</td>
<td>Once every 2</td>
</tr>
<tr>
<td></td>
<td>years</td>
</tr>
<tr>
<td>Average frequency of catch basin cleaning (commercial/arterial or</td>
<td>(times/yr)</td>
</tr>
<tr>
<td>other critical streets)</td>
<td>Once every 2</td>
</tr>
<tr>
<td></td>
<td>years</td>
</tr>
<tr>
<td>Total number of structures cleaned</td>
<td>(#) 1,500</td>
</tr>
<tr>
<td>Storm drain cleaned</td>
<td>(LF or mi.) 2000LF</td>
</tr>
<tr>
<td>Qty. of screenings/debris removed from storm sewer infrastructure</td>
<td>(lbs. or tons) 10 tons</td>
</tr>
<tr>
<td>Disposal or use of sweepings (landfill, POTW, compost, recycle for</td>
<td>Stored</td>
</tr>
<tr>
<td>sand, beneficial use, etc.)</td>
<td></td>
</tr>
<tr>
<td>Cost of screenings disposal</td>
<td>($) 0</td>
</tr>
<tr>
<td>Average frequency of street sweeping (non-commercial/non-arterial</td>
<td>(times/yr)</td>
</tr>
<tr>
<td>streets)</td>
<td>1/year</td>
</tr>
<tr>
<td>Average frequency of street sweeping (commercial/arterial or other</td>
<td>(times/yr)</td>
</tr>
<tr>
<td>critical streets)</td>
<td>1/year</td>
</tr>
<tr>
<td>Qty. of sand/debris collected by sweeping</td>
<td>(lbs. or tons) 30 tons</td>
</tr>
</tbody>
</table>
### Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)

<table>
<thead>
<tr>
<th></th>
<th>(location)</th>
<th>Stored</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost of sweepings disposal</td>
<td>($)</td>
<td>0</td>
</tr>
<tr>
<td>Vacuum street sweepers purchased/leased</td>
<td>(#)</td>
<td>00</td>
</tr>
<tr>
<td>Vacuum street sweepers specified in contracts</td>
<td>(y/n)</td>
<td>0</td>
</tr>
</tbody>
</table>

### Reduction in application on public land of: (“N/A” = never used; “100%” = elimination)

<table>
<thead>
<tr>
<th></th>
<th>(lbs. or %)</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fertilizers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herbicides</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pesticides</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Anti-/De-Icing products and ratios

<table>
<thead>
<tr>
<th></th>
<th>% NaCl</th>
<th>% CaCl₂</th>
<th>% MgCl₂</th>
<th>% CMA</th>
<th>% Kac</th>
<th>% KCl</th>
<th>% Sand</th>
</tr>
</thead>
<tbody>
<tr>
<td>95% NaCl 5% MgCl₂</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Pre-wetting techniques utilized</th>
<th>(y/n)</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual control spreaders used</td>
<td></td>
<td>(y/n)</td>
<td>Y</td>
</tr>
<tr>
<td>Automatic or Zero-velocity spreaders used</td>
<td></td>
<td>(y/n)</td>
<td>N</td>
</tr>
<tr>
<td>Estimated net reduction in typical year salt application</td>
<td></td>
<td>(lbs. or %)</td>
<td>10%</td>
</tr>
<tr>
<td>Salt pile(s) covered in storage shed(s)</td>
<td></td>
<td>(y/n)</td>
<td>Yes</td>
</tr>
<tr>
<td>Storage shed(s) in design or under construction</td>
<td></td>
<td>(y/n)</td>
<td>No</td>
</tr>
</tbody>
</table>