Municipality/Organization: City of Brockton, MA

EPA NPDES Permit Number: MAR041098

MA DEP Transmittal Number: W-127273

Annual Report Number
& Reporting Period: Year 9: April 1, 2011 - March 31, 2012

NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2012)

Part I. General Information

Contact Person: Michael L. Thoreson Title: DPW Commissioner

Telephone #: (508) 580 - 7135 Email: mthoreson@cobma.us

Mailing Address: City Hall - 45 School Street, Brockton, MA 02301

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: [Signature]

Printed Name: Michael L. Thoreson

Title: DPW Commissioner, City of Brockton

Date: 4/1/12
Part II. Self-Assessment

The City of Brockton has completed the required self-assessment and determined that the municipality is in compliance with all permit conditions.
Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

<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 9 (Reliance on non-municipal partners indicated, if any)</th>
<th>Planned Activities – Permit Year 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1</td>
<td>Stencil Catch Basins</td>
<td>Highway Department</td>
<td>Catch Basins Stenciled</td>
<td>The highway department placed decals at catch basins.</td>
<td>Continue to place decals at catch basins.</td>
</tr>
<tr>
<td>1-3</td>
<td>Inserts in Water and Sewer Bills</td>
<td>Water and Sewer Department</td>
<td>Bill Stuffers Mailed in Years 2 (2004) and Year 4 (2006)</td>
<td>Bill stuffers were provided in permit Year 1 and Year 3. All requirements met.</td>
<td>None</td>
</tr>
<tr>
<td>1-4</td>
<td>Resident Hotline</td>
<td>Operations</td>
<td>Hotline operated 24 hours per day, 365 days per year</td>
<td>Hotline operated at Water and Sewer Department</td>
<td>Continue hotline.</td>
</tr>
<tr>
<td>1-5</td>
<td>Pooper Scooper Ordinance</td>
<td>City Clerk</td>
<td>Ordinance passed, enforced</td>
<td>Ordinance was passed prior to permit term.</td>
<td>Continue enforcing Pooper Scooper Ordinance.</td>
</tr>
<tr>
<td>1-6</td>
<td>Newspaper Article</td>
<td>Department of Public Works</td>
<td>One Article Published every three years</td>
<td>An article describing the stormwater permit was written and submitted to the Brockton Enterprise in permit year 1.</td>
<td>Publish an article describing the City’s stormwater permit requirements.</td>
</tr>
</tbody>
</table>

1a. Additions
No Additions to Control Measure 1
2. Public Involvement and Participation

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
<th>Responsible Dept./Person Name</th>
<th>Measurable Goal(s)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2-1</td>
<td>Comply with State public notification guidelines at MGL Chapter 39 Section 23B.</td>
<td>City Clerk</td>
<td>Notices Posted According to State Guidelines</td>
<td>All notices have been posted according to state guidelines.</td>
<td>Continue posting notices according to state guidelines.</td>
</tr>
<tr>
<td>2-2</td>
<td>Public Review for Stormwater Management Plan</td>
<td>Department of Public Works</td>
<td>Review Period Held</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

2a. Additions
No additions to Control Measure 2.
### 3. Illicit Discharge Detection and Elimination

<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 9 (Reliance on non-municipal partners indicated, if any)</th>
<th>Planned Activities – Permit Year 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-1</td>
<td>Illicit Connection Ordinance</td>
<td>City Council</td>
<td>Ordinances Passed</td>
<td>Development of ordinance and guidance manual complete.</td>
<td>Submit ordinance to the City Council for approval.</td>
</tr>
<tr>
<td>3-2</td>
<td>Dry Weather Screening</td>
<td>Highway Department</td>
<td>Outfalls Screened in 2002 and 2006</td>
<td>Second round of dry weather screening complete 2006. First was in 2002.</td>
<td>None</td>
</tr>
<tr>
<td>3-3</td>
<td>Map Stormwater Outfalls</td>
<td>Engineering Department</td>
<td>Map Created</td>
<td>Map completed in 2002.</td>
<td>None</td>
</tr>
<tr>
<td>3-4</td>
<td>Sewer GIS</td>
<td>Sewer Department</td>
<td>GIS Created</td>
<td>GIS of sewers completed in 1999.</td>
<td>None</td>
</tr>
<tr>
<td>3-5</td>
<td>Storm Drain GIS</td>
<td>Engineering Department</td>
<td>GIS Created</td>
<td>GIS of entire drainage system completed in 2004.</td>
<td>None</td>
</tr>
<tr>
<td>3-6</td>
<td>Identify and Remove Non-Stormwater Discharges to MS4</td>
<td>Engineering Department</td>
<td>Prioritized List of Outfalls by end of Permit year 1; field investigations completed, illicit connection located and removed within three years of dry weather screening</td>
<td>Worked with DEP staff to address potential cross connections</td>
<td>Continue working with DEP sampling staff to identify and remove potential cross connections</td>
</tr>
<tr>
<td>3-6 (same as 1-3)</td>
<td>Bill Stuffers in Water and Sewer Bills</td>
<td>Water and Sewer Departments</td>
<td>Illicit Connection Bill Stuffer Created in Permit Year 2 (2004)</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### 3a. Additions

No additions to Control Measure 3.
4. Construction Site Stormwater Runoff Control

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>4-1</td>
<td>Construction Site Erosion and Sediment Control Ordinance</td>
<td>Planning Board, Planning Department and Engineering Department</td>
<td>Ordinance developed and presented to City Council, Enforcement actions taken after ordinance is passed.</td>
<td>Development of ordinance and guidance manual complete.</td>
<td>Finish the new ordinance and submit it to the City Council for approval.</td>
</tr>
<tr>
<td>4-2</td>
<td>Site Plan Reviews</td>
<td>Craig Young, Jacques Borges and Howard Newton</td>
<td>Number of site plans reviewed</td>
<td>Site plans have been reviewed as needed.</td>
<td>Continue reviewing site plans.</td>
</tr>
<tr>
<td>4-3</td>
<td>Consideration of Public Input</td>
<td>Department of Public Works</td>
<td>Review periods held, signs posted at construction sites</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>4-4</td>
<td>Inspection of Erosion and sediment controls</td>
<td>Craig Young, Jacques Borges and Howard Newton</td>
<td>Number of Inspections Performed</td>
<td>Inspections were performed at all sites thought to be in non-compliance.</td>
<td>Continue inspecting sites thought to be in non-compliance.</td>
</tr>
</tbody>
</table>

4a. Additions
No Additions
5. Post-Construction Stormwater Management in New Development and Redevelopment

<table>
<thead>
<tr>
<th>BMP ID #</th>
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<tbody>
<tr>
<td>5-1</td>
<td>Develop a bylaw to apply Standards 2, 3, 4, 7 and 9 of the MA Stormwater Policy to the entire City.</td>
<td>City Solicitor</td>
<td>Ordinance Developed and Presented to City Council</td>
<td>Development of ordinance and guidance manual complete.</td>
<td>Finish the new ordinance and submit it to the City Council for approval.</td>
</tr>
<tr>
<td>5-3</td>
<td>Ordinance for the long-term maintenance of BMPs</td>
<td>Planning Board, Engineering Department and City Solicitor</td>
<td>Ordinance Developed and Presented to City Council</td>
<td>Development of ordinance and guidance manual complete.</td>
<td>Finish the new ordinance and submit it to the City Council for approval.</td>
</tr>
</tbody>
</table>

5a. Additions

There are no additions to Control Measure 5.
### 6. Pollution Prevention and Good Housekeeping in Municipal Operations

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>6-1</td>
<td>Identify Sensitive Receptors</td>
<td>Craig Young, Jacques Borges and Howard Newton</td>
<td>List of sensitive receptors developed in permit year 2, staff training completed</td>
<td>List of sensitive receptors completed.</td>
<td>None</td>
</tr>
<tr>
<td>6-2</td>
<td>Street Sweeping</td>
<td>Highway Department</td>
<td>All streets swept once per year</td>
<td>Swept all streets in the spring of 2011.</td>
<td>Sweep all streets in the spring of 2012.</td>
</tr>
<tr>
<td>6-3</td>
<td>Tree Planting Program</td>
<td>Highway Department, City Planner</td>
<td>Number of Trees Planted</td>
<td>Existing tree planting program performed.</td>
<td>Continue tree planting program.</td>
</tr>
<tr>
<td>6-4</td>
<td>Minimizing Effects from Road Salt</td>
<td>Highway Department</td>
<td>Spreaders Calibrated Every Year</td>
<td>Salt spreaders were calibrated and salt was stored inside.</td>
<td>Calibrate salt spreaders and continue storing salt inside.</td>
</tr>
<tr>
<td>6-5</td>
<td>Vehicle Washing</td>
<td>Department of Public Works</td>
<td>Vehicles Washed Correctly</td>
<td>Vehicle washing protocol was followed. Sander trucks were rinsed outside and other vehicles were washed inside the DPW garage where the wash water drains to the sewer.</td>
<td>Continue washing vehicles using the existing protocol.</td>
</tr>
<tr>
<td>6-6</td>
<td>Vehicle Maintenance</td>
<td>Department of Public Works</td>
<td>Employee Training Conducted in Permit Year 1, Materials Inventory Created in Permit Year 2</td>
<td>None</td>
<td>Create a hazardous material inventory.</td>
</tr>
<tr>
<td>6-7</td>
<td>Storm Drain Maintenance</td>
<td>Highway Department</td>
<td>All catch basins cleaned every 2 years</td>
<td>Clean half the City’s catch basins in 2011.</td>
<td>Clean half the City’s catch basins in 2012.</td>
</tr>
<tr>
<td>-----</td>
<td>------------------------</td>
<td>--------------------</td>
<td>---------------------------------------</td>
<td>---------------------------------------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>6-8</td>
<td>Park and Landscape Maintenance</td>
<td>Parks Department</td>
<td>Staff Training Completed in Permit Year 2, fertilizer use minimized thereafter</td>
<td>None</td>
<td>Train staff to minimize fertilizer use.</td>
</tr>
<tr>
<td>6-9</td>
<td>Illegal Dumping Control</td>
<td>Department of Public Works</td>
<td>Inventory areas in permit year 1, signs posted and staff trained in year 2 and records maintained thereafter</td>
<td>The Highway Department has developed a list of illegal dumping areas, posted signs and has a protocol for reporting illegal dumping.</td>
<td>Continue to perform the illegal dump control program.</td>
</tr>
<tr>
<td>6-10</td>
<td>River Bank Trash Clean-up</td>
<td>Highway Department</td>
<td>Clean-up conducted throughout the year</td>
<td>Clean-up crews continued working on river clean up, schedule permitting.</td>
<td>Continue the river clean up project.</td>
</tr>
<tr>
<td>6-11</td>
<td>Best Management Practices for D.W. Field Park and Municipal Golf Course</td>
<td>Department of Public Works, Parks Department, Golf Course Personnel</td>
<td>Conduct study of potential BMPs in Year 2. Implement study results thereafter.</td>
<td>None</td>
<td>Conduct study of potential BMPs for the D.W. Field Park and Municipal Golf Course.</td>
</tr>
</tbody>
</table>

6a. Additions

There are no additions for Control Measure 6.
7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) \textit{\(<\text{if applicable}\>\)}

Not Applicable
Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

| Stormwater management position created/staffed | (y/n) | yes |
| Annual program budget/expenditures | ($) |

Education, Involvement, and Training

| Estimated number of residents reached by education program(s) | (# or %) |
| Stormwater management committee established | (y/n) |
| Stream teams established or supported | (# or y/n) |
| Shoreline clean-up participation or quantity of shoreline miles cleaned | (y/n or mi.) |
| Household Hazardous Waste Collection Days |
| * days sponsored | (#) |
| * community participation | (%) |
| * material collected | (tons or gal) |
| School curricula implemented | (y/n) |
### 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></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Erosion &amp; Sediment Control</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Post-Development Stormwater Management</td>
<td></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></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Post-Development Stormwater Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Mapping and Illicit Discharges

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

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

<table>
<thead>
<tr>
<th>Outfalls inspected/screened</th>
<th>(# or %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illicit discharges identified</td>
<td>(#)</td>
</tr>
<tr>
<td>Illicit connections removed</td>
<td>(#) (est. gpd)</td>
</tr>
<tr>
<td>% of population on sewer</td>
<td>(%)</td>
</tr>
<tr>
<td>% of population on septic systems</td>
<td>(%)</td>
</tr>
</tbody>
</table>
### Construction

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

### Post-Development Stormwater Management

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control</td>
<td>(%)</td>
</tr>
<tr>
<td>Site inspections completed</td>
<td>(# or %)</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>Unit(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average frequency of catch basin cleaning (non-commercial/non-arterial streets)</td>
<td>(times/yr)</td>
</tr>
<tr>
<td>Average frequency of catch basin cleaning (commercial/arterial or other critical streets)</td>
<td>(times/yr)</td>
</tr>
<tr>
<td>Total number of structures cleaned</td>
<td>(#)</td>
</tr>
<tr>
<td>Storm drain cleaned</td>
<td>(LF or mi.)</td>
</tr>
<tr>
<td>Qty. of screenings/debris removed from storm sewer infrastructure</td>
<td>(lbs. or tons)</td>
</tr>
<tr>
<td>Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)</td>
<td>($)</td>
</tr>
<tr>
<td>Cost of screenings disposal</td>
<td>($)</td>
</tr>
<tr>
<td>Average frequency of street sweeping (non-commercial/non-arterial streets)</td>
<td>(times/yr)</td>
</tr>
</tbody>
</table>