NPDES PII Small MS4 General Permit
Annual Report

Part I. General Information

Contact Person: Gerald S. Mee, Jr. Title: Superintendent of Public Works
Telephone #: 617.972.6420 Email: c/o stamber@ci.watertown.ma.us

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:

Michael J. Driscoll

Title: Town Manager

Date:
Part II. Self-Assessment

Watertown has made significant strides over the past year toward meeting its goals pursuant to the Phase II NPDES Permit BMPs as outlined below:

Public Education and Outreach
Environmental awareness in Watertown has increased greatly during the past year. Employees and citizens are strengthening existing programs and devising new programs from stormwater management and awareness at the high school to recycling in the elementary schools. Members of the Environment and Energy Efficiency Committee have been working with Town employees on plans for the construction of our new Police Station. The Department of Public Works has introduced programs for environmentally friendly lawn care and for the sale of rain barrels. Through a joint effort of the Department of Public Works and the Health Department, restaurant owners were shown television inspection tapes that illustrated the importance of grease traps and grease trap maintenance.

The DPW continued its annual participation in the widely attended Town fair to provide useful information to interested citizens on what services the Town provides to maintain and improve the stormwater system and to protect the Town’s water bodies as well as how residents can help this effort. As a result of continued work by DPW staff with School Department staff, high school curriculum now features stormwater pollution prevention topics such as water quality testing. The DPW and Conservation Agent strengthened their collaboration in areas of shared jurisdiction. The Town continued its enforcement of its pet waste ordinance through issuance of warnings and fines.

Public Involvement and Participation
The DPW meets frequently with the Conservation Agent and issues of stormwater management and protection continue to be on the shared agenda. Public participation in the annual Spring community and river clean-up day was encouraged by publicity and supported by DPW personnel, equipment and supplies. The DPW is continuing and building its partnership with the Environment and Energy Efficiency Committee. The DPW also fostered a partnership with volunteers from “Roots and Shoots”, a student group involved in improving environmental quality including removal of debris and litter to prevent entry into the storm drain system. The DPW also supported activities of the Watertown Citizens for Environmental Safety, a grass roots group that promotes environmental awareness through development and distribution of information to the public and businesses in Town.

Illicit Discharge Detection and Elimination
Enacting protocols in its IDDE program, the Town added wet weather testing to its water quality monitoring this past year. Refinements are being made to GIS mapping of the Town’s storm drain, sewer and water systems which was completed in 2005. Approximately 18 percent of the key junction manholes of the IDDE program were opened, inspected and tested for the presence of illicit connections. One illicit connection was identified and eliminated.

Construction Site Stormwater Runoff Control
The DPW in cooperation with the Planning Department and Conservation Commission continues its efforts to draft an update to the
Town ordinances requiring the implementation of erosion and sediment controls at construction sites. The DPW is responsible for reviewing site development plans prior to Site Plan Approval by the Planning Board and ensuring that the proper measures are incorporated for controlling erosion and sediment runoff to the Town’s stormwater system and waterways. Developers and land owners seeking new construction permits are provided a set of the Town’s standard site construction details including erosion and sediment control requirements. The DPW performs inspections of the construction sites exceeding one acre to ensure compliance with the stormwater runoff control requirements. The DPW also enforces its parking lot drainage standard of using oil/gas separators for areas with 4 or more parking spaces.

**Post-Construction Stormwater Management in New Development and Redevelopment**
The DPW is working cooperatively with the Planning Department and Conservation Commission to draft an ordinance by Spring 2008 requiring implementation of post-construction runoff controls and long-term operation and maintenance of stormwater controls.

**Pollution Prevention and Good Housekeeping in Municipal Operations**
The DPW continued its extensive list of activities for stormwater pollution prevention. Each of the Town’s 27 outfalls were inspected at least once during the permit year to review its condition and appropriate steps were taken to remove blockages, clean-up debris and maintain its full function. The townwide bi-annual catch basin cleaning program continued during the permit year with 100% of the 3,700 CBs cleaned. The DPW’s two street sweepers were used to sweep all the Town’s streets at least once during the permit year for removal of salt residue, sand, debris, leaves and litter before entry into the storm drain system. The DPW continued maintenance of the stormwater system focusing on problem locations where blockages and flooding have occurred.
Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

<table>
<thead>
<tr>
<th>BMP ID #</th>
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<tbody>
<tr>
<td>1A</td>
<td>Distribute public education brochures</td>
<td>DPW, Health Dept.</td>
<td>1 brochure each permit year</td>
<td>Brochure finalized and printed for distribution. Brochure distributed at Earth Day 2006 Charles River Clean-up event held on 4/29/06. and Annual Faire on the Square on 9/30/06. Brochure placed in display racks at Town facilities including DPW Office, Town Hall, Libraries, and Schools. The DPW continued to support the public education work of the Environment and Energy Efficiency Committee.</td>
<td>Continue distribution and displaying of “Protecting Our Waterways” brochure. Print additional brochures as needed to maintain adequate supply for distribution at annual environmental events and for posting at DPW and Town building venues.</td>
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<td>Revised</td>
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<td>1B</td>
<td>Participate in municipal services exhibit at local mall</td>
<td>DPW</td>
<td>1 day per permit year</td>
<td>The Department participated in the annual Faire on The Square on Sat. Sept. 30, 2006 to allow the public an opportunity to learn what services the DPW provides including protection of the river through stormwater management. An estimated 12,000 to 15,000 people attended the Faire on the Square.</td>
<td>Distribute stormwater brochures and display the Town’s GIS map of the stormwater system at the annual Fall, “Faire on The Square” event. A table and display board will be set up along the sidewalk in Watertown Square where passersby can obtain public education materials, view the Town’s stormwater map and learn what steps they can take to reduce impacts on stormwater runoff. DPW officials will be present to address questions and comments made by the public.</td>
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<tr>
<td>Revised</td>
<td>The Town’s annual Faire on the Square is effectively a municipal services day.</td>
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<tr>
<td>1C</td>
<td>Send stormwater information and work with science depts..</td>
<td>DPW/public schools</td>
<td>Continue meetings and discussions with High School Science Dept. for enhancing curriculum for understanding of impacts to public waterways and measures for stormwater pollution prevention. Fully implement program by Fall 2008.</td>
<td>DPW staff has communicated with several School Dept. staff members to plan steps and content of school curriculum. The High School Science Department is working with an organization named “Urban Ecology Institute” at Boston College to develop a field studies program. Teachers are using these materials in teaching how to conduct water quality tests such as pH and nutrients. Teachers also prepared lessons on urban ecology and related the information to environmental resources within the Town. Lessons have also been tailored to Middle School students. High School Science Dept. is scheduled to conduct a networking event in early May 2007.</td>
<td>Continue to work with the High School Science Dept. regarding stormwater pollution control education in the coursework. The goal is to have stormwater pollution control be a part of the science department curriculum for 9th and 10th graders and to have high school students who have received the stormwater pollution control education teach younger students at the Middle School level.</td>
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<td>Revised</td>
<td>Outfall Signs</td>
<td>DPW/Community Groups</td>
<td>Label all outfalls with signs</td>
<td>All but 2 of the Town’s 27 outfalls have been labeled with permanent signs identifying the outfall ID number and providing a telephone number for the public to report suspicious discharges. The 2 unlabeled outfalls are those that coincide with the Dept. of Conservation and Recreation (DCR) boardwalk along the Charles River due to objections of the signage aesthetics by DCR. The Town is still working with DCR.</td>
<td>Complete labeling of all outfalls. The Town will continue to work with DCR to resolve the placement of the two outfall signs on their boardwalk. As a result of damage by weather and vandalism, there is an ongoing effort to replace damaged outfall signs.</td>
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<td>1E</td>
<td>Pet Waste Management</td>
<td>Health Dept., DPW and citizens</td>
<td>Enforcement of pet waste rules through issuance of fines by Brd. of Health or Police Verify enforcement by number of citations issued each permit year.</td>
<td>The Town’s current Animal Control Ordinance requires pet owners to leach, curb and clean up after pets. Pet waste education included Health Dept. brochures on requirements for pet waste management as well as information contained in DPW’s “Protecting Our Waterways” brochure. Enforcement of pet waste management rules stepped up this year through routine inspections of public park areas by Animal Control Officer and issuance of citations. Pet Waste Management for riverfront areas are beyond Watertown’s jurisdiction and the Town relies upon DCR to enforce this BMP in these public areas.</td>
<td>Continuation and expansion of public education and enforcement activities. The DPW published “Protecting Our Waterways” brochure includes a section on pet waste management and will be distributed to the public and pet owners at town sponsored events and public displays.</td>
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<td>1F</td>
<td>Education of restaurant owners and auto service garage owners</td>
<td>DPW/Board of Health</td>
<td>Visit and provide educational materials on preventing stormwater pollution. Target is to meet with 33% of the restaurant and garage owners each permit year for 3 remaining permit years.</td>
<td>Board of Health has visited 115 area restaurants to inspect for presence of grease traps and to provide information on proper grease trap maintenance. During the inspections, the owners were asked by the Health Dept. inspector about their grease disposal practices and, if requested, provided a list of vendors who offer disposal service. DPW videotaped section of sewer severely blocked by grease buildup and had Dept. of Health witness videotaping for them to gain an appreciation of the impacts grease entering the sewer system, creating blockages and potentially overflowing into nearby storm drains.</td>
<td>Provide information to restaurants on impacts of grease disposal in storm drains and to automotive service garages on impacts of improper handling and disposal of oil and coolant wastes.</td>
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### 1a. Additions

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<td>IG</td>
<td>Public education through environmental speaker series</td>
<td>DPW and Environment and Energy Efficiency Committee</td>
<td>Three to five annual speakers or movies on environmental topics</td>
<td>This was the second year of the speaker series. The most popular event by far was a showing of <em>An Inconvenient Truth</em>.</td>
<td>DPW and Environment and Energy Efficiency Committee will continue to promote public awareness and education through the speaker series on a variety of environmental topics including those related to stormwater and water quality.</td>
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# 2. Public Involvement and Participation

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<td>2A</td>
<td>Public stormwater meetings</td>
<td>DPW, Planning Bd., Con. Comm.</td>
<td>1 meeting per permit year with Con. Comm., Planning Bd., Bd. of Health &amp; DPW</td>
<td>DPW met regularly with Conservation Agent regarding stormwater topics. Two formal meetings between DPW and Conservation Commission were held during the permit year on March 7 and March 21 to discuss a variety of water quality and stormwater issues such as conditions at the Town’s outfalls along Pleasant Street, steps to reduce stormwater related pollution, and measures that can be implemented to improve public education on the issue.</td>
<td>Conduct annual stormwater issues public meeting with DPW and Con. Comm. in Spring 2008 to review progress on initiatives to reduce impacts of runoff on waterways, measures to improve public education and awareness on the issue, setting of appropriate stormwater erosion and sediment control requirements in Orders of Condition issued to developers, and identification of priority areas for community clean-up events. A notice of the annual Stormwater Management Meeting will be posted at the Town Hall and Libraries, and included in the local newspaper in an effort to encourage public attendance at the meeting.</td>
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<td>2B</td>
<td>Community Clean Up</td>
<td>DPW/volunteers</td>
<td>1 clean up day per year. Participation by at least 100 volunteers</td>
<td>Citizen clean up of Whitney Hill area held 22 April 2006. DPW. Arranges for removal of debris collected.</td>
<td>Continue to support annual community clean up day. Publish article in local paper and invite public to participate.</td>
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<td>2C</td>
<td>River Clean Up</td>
<td>DPW</td>
<td>1 clean up day per year. Participation by general public and local community groups.</td>
<td>Annual spring clean up conducted on 29 April 2006 in the Solomon Park area of Charles River. DPW supplied barrels and truck. Arranges for removal of debris collected. DPW continued its partnership with student volunteers from “Roots and Shoots”.</td>
<td>Conduct review clean up day. Work with “Roots and Shoots” student volunteers and other participants on a variety of activities aimed at improving environmental quality, river water quality being one of them. The Town is proposing that students assist with clean up and removal of items to prevent entry into the storm drain system.</td>
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<tr>
<td>Revised</td>
<td>Community Clean Up</td>
<td>DPW supports river clean up</td>
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<td>2D</td>
<td>Citizen Watch Group</td>
<td>Citizens, DPW</td>
<td>2 meetings per year with WCES and participation by at least one volunteer from each neighborhood to perform weekly inspections of neighborhood areas and report to local authorities incidents of pollution.</td>
<td>DPW continued working with Watertown Citizens for Environmental Safety (WCES), a grass roots group that promotes environmental awareness through development and distribution of information to the public and businesses in Town. WCES has published a pesticide awareness brochures/pamphlet in conjunction with the Board of Health. DPW met with neighborhood groups regarding maintenance of planting strips. The Environment and Energy Efficiency Committee continues to distribute public education materials for general public and business community and is working with the Town to incorporate green building practices in the construction of the new Police Station. The Committee began planning for its participation in the annual Faire on the Square event. The Town Bicycle Committee and Recycling Committees also continued to promote environmentally friendly activities that have positive impacts on the river.</td>
<td>Town will continue to work with WCES, Bicycling, Recycling, Environment and Energy Efficiency Committees. The DPW intends to meet with the WCES twice per year (Spring and Fall) to review topics of environmental interest and to seek participation to support and promote Town initiatives. The DPW will continue to work with the student volunteers of Roots and Shoots. This year’s Faire on the Square will feature an environmental section under the auspices of the Environment and Energy Efficiency Committee.</td>
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<td>2E</td>
<td>Riverwatch program</td>
<td>DPW</td>
<td>2 times per permit year</td>
<td>DPW conducted Riverwatch Program several times in permit year 4 to inspect the river bank areas and outfalls for signs of pollution and dumping of debris. Inspection of the outfalls and waterway is by use of the DPW’s boat which was taken out during the river clean-up event. The bank areas were inspected by bicycle patrol on at least 5 occasions during permit year 4.</td>
<td>Continue Riverwatch Program with 2 inspections performed in Permit year 5.</td>
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<tr>
<td>2F</td>
<td>Household Hazardous Waste Day. The Town is a member of the Minuteman Household Hazardous Waste Collection Location</td>
<td>Health Dept.</td>
<td>8-10 events per year</td>
<td>There are eight events in any given year. Watertown residents sent 137 cars to Household Hazardous Waste events from 1 April 2006- to 31 March 2007.</td>
<td>Continue HHW Program in conjunction with Minuteman Household Hazardous Waste Collection Days.</td>
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2a. Additions

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<td>2G</td>
<td>CB Stenciling Program</td>
<td>DPW/Volunteers</td>
<td>Stencil 25% of key CBs in Town each year over 4 years</td>
<td>Labelling of Town catch basins through a cooperative effort with the children’s community group “Roots and Shoots” continued early in Permit Year 4 Approximately 66 key catch basins were labeled so far under the program. DPW provided durable plastic adhesive backed labels worded “Do Not Dump – Drains to River”. The labels were placed on the top of the curb immediately behind the CB. DPW oversaw CB labeling program providing the necessary materials and instructions on proper installation by the volunteer group.</td>
<td>As noted under the Public Education Minimum Control Measure #1, Watertown implemented a catch basin labeling program in Permit Year 4 and will continue to support the efforts of volunteers seeking to participate in this program in Permit Year 5.</td>
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<td>2H</td>
<td>Water Quality Monitoring Program</td>
<td>DPW/Environmental Community Groups/Volunteers</td>
<td>Conduct Water Quality Monitoring quarterly of waterways known to have high bacterial counts.</td>
<td>DPW routinely sampled and analyzed water quality from drainage outfalls to identify signs of illicit connections and to take measures to remove the sources from the storm drains. Monitoring doubled in Permit Year 4 with the addition of wet weather sampling. A total of 94 water quality samples were taken and sent to the lab for analysis during permit year 4.</td>
<td>Continue and further refine water quality monitoring program.</td>
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<td>2I</td>
<td>Adopt a Storm Drain Program</td>
<td>DPW/Environmental Community Groups/Volunteers</td>
<td>Participation by 15-20 Adopt a Storm Drain volunteers each year.</td>
<td>Due to higher priority demands, the Town was unable to draw up support for the proposed Adopt a Storm Drain Program.</td>
<td>The Town will continue its efforts to enlist volunteers for the upcoming permit year to launch the Adopt a Storm Drain program in Watertown.</td>
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<tr>
<td>2J</td>
<td>Rain Barrel Distribution</td>
<td>DPW</td>
<td>Distribute rain barrels for purchase by Watertown residents.</td>
<td>Schedule rain barrel distribution event for 25 April 2007 and publish availability of rain barrels through local newspaper and cable TV.</td>
<td>Continue promoting benefits of rain barrel usage for capturing roof runoff to reduce runoff from paved surfaces and lawn areas reaching the storm drain system and waterways. Aim to hold additional rain barrel distribution event in early Spring 2008.</td>
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<tr>
<td>2K</td>
<td>Healthy Lawns and Landscapes Workshop</td>
<td>DPW</td>
<td>Conduct a workshop on lawn and landscape maintenance measures that reduce impacts to the Town’s waterways.</td>
<td>Scheduled Healthy Lawns and Landscapes Workshop for 2 May 2007 and publicized event on local newspaper and cable TV.</td>
<td>Continue to promote healthy lawn and landscape practices. Aim to conduct Healthy Lawns and Landscapes Workshop in Spring 2008.</td>
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### 3. Illicit Discharge Detection and Elimination

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<tr>
<td>3A</td>
<td>Work with private consultants</td>
<td>Coordinate with DPW</td>
<td>Perform top down investigation of entire MS4 to detect illicit connections within 3 years Eliminate identified illicit connections within 3 months of detection. Most illicit discharge sources detected and eliminated within 5 years</td>
<td>The Department of Public Works has conducted an extremely active program since 1997, has continued its routine monitoring of outfalls and hot spots to locate the presence of illicit connections. Approximately 31 out of 172 key junction manholes were monitored for illicit connections in Permit Year 4. Key Junction Manholes identified in the Illicit Discharge Detection and Elimination program were opened, inspected and sampled for the presence of indicator parameters. Manholes with positive findings were traced upstream to locate the source of the illicit connection. One (1) illicit connection was discovered and 1 connection eliminated. Approximately 18% of the MS4 has been inspected following the IDDE top-down protocol.</td>
<td>Implement Updated IDDE Plan with the top down approach for at least 1/3 of entire MS4.</td>
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<td>3B</td>
<td>Work with various Town agencies</td>
<td>Building, FD, Con. Comm, DPW</td>
<td>Training of public employees on illicit discharges completed within one year</td>
<td>The DPW coordinated with the Health Department about improper waste disposal issues and possible impacts to MS4 and water bodies. Public employees are being provided copies of the brochure “Protecting Our Waterways” which includes a discussion of illicit connections and their serious impact to the environment.</td>
<td>Continue joint efforts of DPW, Building Department and other Town Depts. and Agencies regarding the serious nature of illicit connections and to be continually on the lookout while working around Town for incidents of illicit discharges so they can be promptly addressed.</td>
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<td>3C</td>
<td>Update Stormwater Map</td>
<td>DPW/Consultants</td>
<td>Update map each year during permit period as new information becomes available. Complete supplemental info. Mapping by 2007.</td>
<td>Mapping of Town’s MS4, sanitary sewer, and water systems was completed in the Townwide GIS System in 2005. As new information from field investigations during Permit Year 4 became available, it was compiled and used for updating the Stormwater Map.</td>
<td>Continue updating mapping with IDDE investigation results. Incorporate the other features, to the degree the information is available, recommended by the Center for Watershed Protection.</td>
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<td>3D</td>
<td>TV, smoke and dye testing</td>
<td>DPW/Consultants</td>
<td>TV inspected 6,018 linear feet of piping. Lined 1,500 linear feet of sanitary sewer to repair exfiltration along the Charles River Corridor. In conjunction with the MWRA’s Local I/I Financial Assistance Program, the DPW worked with Consultants to arrange for TV inspection of sewers in areas known to have significant infiltration and physical problems.</td>
<td>Based on results from top down investigations, perform TV, smoke and dye testing to pinpoint illicit sources.</td>
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<td>3E</td>
<td>Remove dry weather overflows</td>
<td>DPW/Consultants</td>
<td>Eliminate dry weather overflows within 1 year</td>
<td>The Department has an active program including work with outside consulting firms to inspect and test its MS4 looking for sources of dry weather flow and determining if it is from an illicit source. Investigations identified 1 suspect location which was repaired.</td>
<td>Use information gained from the top down approach to follow-up investigations to identify illicit sources and have them removed immediately.</td>
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<tr>
<td>3F</td>
<td>IDDE Educational Outreach</td>
<td>DPW/Health Dept./Con. Comm./Volunteers</td>
<td>Include IDDE Education with public education goals under BMP #1.</td>
<td>The DPW published and distributed the “Protecting Our Waterways” brochure to the public at Town sponsored community events and posted in public forums. The brochure includes the topic of illicit discharges. The DPW coordinated with the High School science department on urban water quality issues and students are learning about causes of water pollution. The DPW worked with volunteers and children’s group to conduct labeling of CBs around Town with the words “Drains to River”</td>
<td>The IDDE outreach program will continue for permit year 5 and will include the following components: • Distribution of stormwater brochures developed under BMP #1A at Town events and make available within municipal buildings to employees and the public. • Continue collaboration with the volunteer group Roots and Shoots. • Continue meeting with restaurant owners and auto service garages as indicated under BMP #1F to review with methods to prevent illicit discharges from reaching the stormwater system and procedures for proper disposal of wastes from their operations. The goal for this activity is to conduct outreach to these businesses in Watertown over a 3 year period. • Enlisting volunteers to stencil catch basins throughout the Town as noted under new BMP #2G. • Completion of labeling of outfalls under BMP #1D with contact information and phone numbers for the public to report suspicious or confirmed illicit discharges.</td>
</tr>
<tr>
<td>BMP ID #</td>
<td>BMP Description</td>
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<td>Planned Activities – Permit Year 5</td>
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<tr>
<td>3G</td>
<td>Prohibition of Illicit Discharges</td>
<td>DPW</td>
<td>Since 1990, town regulations “Sanitary Sewer and Storm Drain Regulations” have forbidden improper discharges to the storm drains. Supplant existing Storm Drain and Sanitary Sewer Regulations with more specific language regarding prohibition of Illicit Discharges to the MS4. Draft supplanting Illicit Discharge text for City Council approval by mid-2006 and implement mid-2007.</td>
<td>Regulatory language supports and strengthens Town programs and requirements of developers</td>
<td>DPW will continue efforts to strengthen existing regulatory language to incorporate by reference supplanting text on prohibition of all non-stormwater discharges into the Town’s MS4 (i.e., Illicit Discharges) in accordance with provisions of the Clean Water Act as required by the US Environmental Protection Agency.</td>
</tr>
</tbody>
</table>
### 4. Construction Site Stormwater Runoff Control

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
<th>Responsible Dept./Person Name</th>
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<th>Planned Activities – Permit Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>4A</td>
<td>Update Town Ordinances</td>
<td>DPW, Planning, Con. Comm.</td>
<td>Update ordinance by the end of 2006 and adopt by end of 2007.</td>
<td>The Department of Public Works continued its efforts to form a subcommittee to undertake update. The DPW and Con. Comm. met to work on aligning requirements for stormwater runoff control in Orders of Conditions and projects outside the Wetlands Protection Act jurisdiction.</td>
<td>Form subcommittee to draft an ordinance requiring erosion and sediment controls be in place at all construction sites of one acre or greater prior to start of site work in accordance with the NPDES General Permit condition in Part II.B.4.(a). Adopt new ordinance with implementing regulations by May 1, 2008.</td>
</tr>
<tr>
<td>Revised</td>
<td></td>
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</tr>
<tr>
<td>4B</td>
<td>Coordinate construction reviews and site inspections</td>
<td>DPW, Planning, Con. Comm.</td>
<td>Internal review and 1 site inspection per project with 100% compliance with sediment and erosion controls by site operators.</td>
<td>Relevant Departments review and inspect projects more than once. All relevant DPW divisions are included in review process. Sites of over one acre were inspected by the Town.</td>
<td>Continue review of plans of new site development. Pay special attention to the plans and details provided by the developer for controlling erosion and sediment runoff that could lead to impacts to the Town’s stormwater system and waterways. Conduct a site inspection after the erosion and sediment control measures are installed, as appropriate, for each new construction project of one acre or larger to ensure consistency with local requirements.</td>
</tr>
<tr>
<td>Revised</td>
<td></td>
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<tr>
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</tr>
<tr>
<td>4C</td>
<td>Standard Construction Details</td>
<td>DPW, Planning, Con. Comm.</td>
<td>Update details 1 time during permit period. Require 100% of the projects with areas of 1 acre or more to include in their plans the necessary measures to adequately control erosion and sedimentation in stormwater runoff that meet or exceed those in the Town’s standards and the MA DEP Stormwater Management Policy performance standards, whichever is more stringent.</td>
<td>Distributed set of standard site construction details and erosion and sediment control details to developers, site construction contractors, and private property owners.</td>
<td>Review details and update as needed. Provide developers with standard details and review plans and site conditions for compliance.</td>
</tr>
<tr>
<td>4D</td>
<td>Standard Erosion Control Details</td>
<td>DPW, Planning, Con. Comm.</td>
<td>Update details 1 time during permit period. Require 100% of the projects with areas of 1 acre or more to include in their plans the necessary measures to adequately control erosion and sedimentation in stormwater runoff that meet or exceed those in the Town’s standards and the MA DEP Stormwater Management Policy performance standards, whichever is more stringent.</td>
<td>Distributed set of standard site construction details and erosion and sediment control details to developers, site construction contractors, and private property owners.</td>
<td>Review details and update as needed. Provide developers with standard details and review plans and site conditions for compliance.</td>
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<tr>
<td>Revised</td>
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<tr>
<td>4E</td>
<td>Oil/gas separators for areas greater than 4 parking spaces.</td>
<td>DPW</td>
<td>100% of all new construction sites with plans for 4 or more parking spaces to include oil/gas separators.</td>
<td>Require new projects connected to Town drain system to have separators installed during new or renovation work.</td>
<td>Continue enforcement of oil/gas separator installation at sites with 4 or more parking spaces at 100% of new sites connected to Town drain system.</td>
</tr>
<tr>
<td>Revised</td>
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</tbody>
</table>

4a. Additions

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
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</tr>
<tr>
<td>4F</td>
<td>DPW Construction Standards</td>
<td>DPW</td>
<td>Enacted in 2002, project proponents appearing before DPW must comply with provisions. Require 100% of the projects with areas of 1 acre or more to include in their plans the necessary measures to adequately control erosion and sedimentation in stormwater runoff that meet or exceed those in the Town’s standards and the MA DEP Stormwater Management Policy performance standards, whichever is more stringent.</td>
<td>Distributed set of standard site construction details and erosion and sediment control details to developers, site construction contractors, and private property owners.</td>
<td>Review details and update as needed. Provide developers with standard details and review plans and site conditions for compliance.</td>
</tr>
<tr>
<td>4G</td>
<td>Public observation and reporting</td>
<td>DPW/Board of Health</td>
<td>Implement procedures for receipt and follow-up of public comments on construction site violations of the Town’s standards for erosion and sediment control by the end of 2007.</td>
<td>DPW followed up on reports and complaints by the Public on problems observed at construction sites including erosion and sediment in runoff, litter or other contaminants reaching the public ways. DPW notified construction site owner of problems and required they be immediately addressed.</td>
<td>Continue requiring construction site operators with sites exceeding one acre or more to post a sign at the site providing the phone number and address for the public to contact the DPW to report any concerns or questions regarding construction activities and impacts to stormwater quality. Calls made or correspondence written to the DPW by the public will be tracked in a written log noting the location of the project, date of the contact, and nature of the concern or comment made by the public. As appropriate, the DPW or other local authority will follow-up with a site inspection to review construction conditions and speak to the site inspector.</td>
</tr>
</tbody>
</table>
## 5. Post-Construction Stormwater Management in New Development and Redevelopment

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>5A</td>
<td>Update Town Ordinances</td>
<td>DPW, Planning, Con. Comm.</td>
<td>Draft an ordinance by the spring of 2008 requiring the implementation of post construction runoff controls and long-term operation and maintenance of such controls. The goal for the approval of this ordinance by the Town and its adoption is by the end of 2008.</td>
<td>In Progress</td>
<td>Form subcommittee to draft an ordinance requiring post-construction runoff control at developed and redeveloped parcels in accordance with the NPDES General Permit conditions in Part II.B.5.(a). Adopt new ordinance with implementing regulations by May 1, 2008.</td>
</tr>
</tbody>
</table>
| 5B       | Update BMP’s and details | DPW, Planning, Con. Comm. | Reduce the percentage of impervious surfaces associated with new developments and redevelopment projects of one acre and above to 25% of the site or less. Reduce sedimentation in stormwater runoff and local water bodies downstream of the development as determined from routine observations. | In Progress | Continue to work on strategies for post construction runoff control of projects exceeding one or more acres that include non-structural and structural BMP’s for reference in ordinance to be developed under BMP #5A. Non-structural BMP’s to be included in the strategies for post construction runoff control are the following:  
- Limiting area of disturbance and use of impervious surfaces for new development and redevelopment projects to the maximum extent possible while... |
<table>
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</tr>
</thead>
<tbody>
<tr>
<td>Revised</td>
<td>Post construction runoff controls strategies.</td>
<td></td>
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</tr>
</tbody>
</table>
5a. Additions

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>6A</td>
<td>Clean and inspect outfalls</td>
<td>DPW</td>
<td>Clean and inspect at least 1 time per year</td>
<td>Outfalls were inspected a minimum of once during Permit Year 4. Areas of known difficulty were inspected more often. Upstream testing and inspection was also performed.</td>
<td>Continue program</td>
</tr>
<tr>
<td>6B</td>
<td>Clean catch basins</td>
<td>DPW</td>
<td>Clean every catch basin at least once every 2 years</td>
<td>Catch basin cleaning was performed by outside contractors. This year all catch basins were cleaned by outside contractors or 100% of total 3,700.</td>
<td>Continue program</td>
</tr>
<tr>
<td>6C</td>
<td>Street Sweeping</td>
<td>DPW</td>
<td>2 street sweepers employed year round, weather permitting to clean all town streets at least once per year.</td>
<td>All streets received sweeping two to three times in Permit Year 4. Major arterials received additional sweeping.</td>
<td>Continue program</td>
</tr>
<tr>
<td>6D</td>
<td>Inspection and maintenance of stormwater system</td>
<td>DPW</td>
<td>Inspect problematic system locations of the MS4 at least once per year and more frequently as conditions dictate.</td>
<td>Problem locations were reviewed as often as possible/needed, but minimally once per year.</td>
<td>Continue program</td>
</tr>
<tr>
<td>6F</td>
<td>EPA/DPW Spill Truck</td>
<td>DPW</td>
<td>Respond to spill emergencies.</td>
<td>The truck is available as needed. During the permit year, there were no major spills. The spill truck was deployed on approximately 5 separate occasions in response to incidents such as fires.</td>
<td>Available as needed.</td>
</tr>
</tbody>
</table>
6a. Additions

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</thead>
<tbody>
<tr>
<td>6G</td>
<td>Integrated Pest Management Program</td>
<td>DPW</td>
<td>Use IPM methods to exclude pesticides on Town properties.</td>
<td>No pesticides whatever were applied by the Town to public parks, open spaces and other greenways in Town during the reporting period. Limited application of pesticides is used on problem roadside areas.</td>
<td>Continue IPM program for open spaces, parks and greenways under Town jurisdiction.</td>
</tr>
<tr>
<td>6H</td>
<td>Wet weather testing.</td>
<td>DPW and consultants</td>
<td>DPW will supplement existing testing program with wet weather testing 5-6 times per year.</td>
<td>Wet weather testing was performed on 4 occasions during permit year 4.</td>
<td>Complete wet weather testing of 10 areas identified in IDDE Plan 4 times in Permit Year 5.</td>
</tr>
<tr>
<td>6I</td>
<td>Reduce Salt/Sand Usage</td>
<td>DPW</td>
<td>Reduce salt and sand use by 5% normalized for # and severity of storms.</td>
<td>Steps were taken by the DPW to limit use of salt on roadways to the degree it could be done without increasing risks to the traveling public.</td>
<td>The DPW will be removing the salt barrels around the Town to reduce overall use of salt in Town. Take care to not overload salt/sand spreading trucks, instruct operators on proper methods of controlling the dispensing of salt/sand to prevent overdosing, and pay special attention to weather conditions to optimize the usage of sand and sand as needed to provide safe driving conditions.</td>
</tr>
<tr>
<td>6J</td>
<td>Train public works employees on pollution prevention and good housekeeping techniques.</td>
<td>DPW</td>
<td>Gather training materials and implement training to public employees by July 31, 2006.</td>
<td>Public works employees are being provided relevant information on pollution prevention and good housekeeping practices for municipal operations at parks and open spaces as well as stormwater system maintenance.</td>
<td>Continue to encourage public works employees to follow pollution prevention and good housekeeping practices.</td>
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</table>
# 7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)  
<<if applicable>>

<table>
<thead>
<tr>
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7a. Additions

|          |                 |                              |                   |                                                                                                 |                                   |
|          |                 |                              |                   |                                                                                                 |                                   |

7b. WLA Assessment
Part IV. Summary of Information Collected and Analyzed

94 Water Quality Samples collected and sent to laboratory analysis.
0 building inspections for illicit connections
0 Dye tests
0 linear feet of smoke testing
6,018 Linear feet TV inspected and reviewed
1,500 linear feet of sanitary sewer lined to eliminate exfiltration along Charles River Corridor

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

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

Education, Involvement, and Training

| Estimated number of residents reached by education program(s) | (# or %) | 20,000 |
| Stormwater management committee established (Environment and Energy Efficiency Committee) | (y/n) | Y |
| Stream teams established or supported | (# or y/n) | N |
| Shoreline clean-up participation or quantity of shoreline miles cleaned | (y/n or mi.) | Y (entire length of Charles River) |

Household Hazardous Waste Collection Days

- days sponsored | (#) | 8 |
- community participation | (%) | 137 cars |
- material collected | (tons or gal) | |

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>
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<td></td>
<td>X</td>
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<tr>
<td>• Erosion &amp; Sediment Control</td>
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<td>X</td>
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<td></td>
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<tr>
<td>• Post-Development Stormwater Management</td>
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<table>
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<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>
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<tr>
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<td></td>
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<tr>
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</tbody>
</table>

### Mapping and Illicit Discharges

<table>
<thead>
<tr>
<th>Mapping and Illicit Discharges</th>
<th>(%)</th>
<th>100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outfall mapping complete (%)</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>Estimated or actual number of outfalls (#)</td>
<td>27</td>
<td></td>
</tr>
<tr>
<td>System-Wide mapping complete (%)</td>
<td></td>
<td>100%</td>
</tr>
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</table>

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

<table>
<thead>
<tr>
<th>(%)</th>
<th>100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outfalls inspected/screened (# or %)</td>
<td>100%</td>
</tr>
<tr>
<td>Illicit discharges identified (#)</td>
<td>1</td>
</tr>
<tr>
<td>Illicit connections removed (#)</td>
<td></td>
</tr>
<tr>
<td>Illicit connections removed (est. gpd)</td>
<td>1</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>(%)</th>
<th>99.99 %</th>
<th>&lt;.01%</th>
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</thead>
<tbody>
<tr>
<td>% of population on sewer (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% of population on septic systems (%)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Construction

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of construction starts (&gt;1-acre)</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Estimated percentage of construction starts adequately regulated for erosion and sediment control</td>
<td>(%)</td>
<td>100%</td>
</tr>
<tr>
<td>Site inspections completed</td>
<td>(# or %)</td>
<td>25</td>
</tr>
<tr>
<td>Tickets/Stop work orders issued</td>
<td>(# or %)</td>
<td>0</td>
</tr>
<tr>
<td>Fines collected</td>
<td>(# and $)</td>
<td>0</td>
</tr>
<tr>
<td>Complaints/concerns received from public</td>
<td>(#)</td>
<td>0</td>
</tr>
</tbody>
</table>

### Post-Development Stormwater Management

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control</td>
<td>(%)</td>
<td>100%</td>
</tr>
<tr>
<td>Site inspections completed</td>
<td>(# or %)</td>
<td>11</td>
</tr>
<tr>
<td>Estimated volume of stormwater recharged</td>
<td>(gpy)</td>
<td>n/a</td>
</tr>
</tbody>
</table>

### Operations and Maintenance

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average frequency of catch basin cleaning (non-commercial/non-arterial streets)</td>
<td>(times/yr)</td>
<td>Once annually</td>
</tr>
<tr>
<td>Average frequency of catch basin cleaning (commercial/arterial or other critical streets)</td>
<td>(times/yr)</td>
<td>Once annually</td>
</tr>
<tr>
<td>Total number of structures cleaned</td>
<td>(#)</td>
<td>3700</td>
</tr>
<tr>
<td>Storm drain cleaned</td>
<td>(LF or mi.)</td>
<td>5000 lf</td>
</tr>
<tr>
<td>Qty. of screenings/debris removed from storm sewer infrastructure</td>
<td>(lbs. or tons)</td>
<td></td>
</tr>
<tr>
<td>Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cost of screenings disposal</td>
<td>($)</td>
<td>$65,700</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average frequency of street sweeping (non-commercial/non-arterial streets)</td>
<td>(times/yr)</td>
<td>2-3x</td>
</tr>
<tr>
<td>Average frequency of street sweeping (commercial/arterial or other critical streets)</td>
<td>(times/yr)</td>
<td>3+</td>
</tr>
<tr>
<td>Qty. of sand/debris collected by sweeping</td>
<td>(lbs. or tons)</td>
<td></td>
</tr>
<tr>
<td>Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)</td>
<td>(location)</td>
<td>Lo Russo Landfill – Plainville, MA</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Cost of sweepings disposal ($)</td>
<td>$4,137.60</td>
<td></td>
</tr>
<tr>
<td>Vacuum street sweepers purchased/leased (#)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Vacuum street sweepers specified in contracts (y/n)</td>
<td>N</td>
<td></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>
</tr>
</thead>
<tbody>
<tr>
<td>Fertilizers</td>
<td></td>
</tr>
<tr>
<td>Herbicides</td>
<td></td>
</tr>
<tr>
<td>Pesticides</td>
<td></td>
</tr>
</tbody>
</table>

**Integrated Pest Management program mitigating against use of chemicals in place since 2001.**

<table>
<thead>
<tr>
<th>Anti-/De-Icing products and ratios</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></td>
<td>95%</td>
<td>5%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Pre-wetting techniques utilized (y/n) | Y |
| Manual control spreaders used (y/n) | Y |
| Automatic or Zero-velocity spreaders used (y/n) | Y |
| Estimated net reduction in typical year salt application (lbs. or %) | |
| Salt pile(s) covered in storage shed(s) (y/n) | Y |
| Storage shed(s) in design or under construction (y/n) | N |