CITY OF ATTLEBORO, MASSACHUSETTS
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CONSERVATION AGENT / ENVIRONMENTAL PLANNER

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5/1/08

April 30, 2008

Ann Herrick – CIP
US EPA Region 1
1 Congress Street, Suite 1100
Boston, MA 02114

**RE:** CITY OF ATTLEBORO'S NPDES PII SMALL MS4 GENERAL PERMIT ANNUAL REPORT #5

Dear Ms. Herrick:

Please find enclosed herewith the City of Attleboro's NPDES PII Small MS4 General Permit Annual Report #5. This report was prepared in collaboration with the Department of Public Works, the Department of Parks and Forestry, and the Health Department.

Should you have any questions or require any clarification on our Annual Report, please do not hesitate to contact me at 508-223-2222.

Sincerely,

**LEE FULLER**
**CONSERVATION AGENT/ENVIRONMENTAL PLANNER**

Enclosures: 1

cc: The Honorable Kevin J. Dumas
Frank Cook, Municipal Council President
Gary Aryassian, Director of Planning and Development
John Clover, Superintendent of Public Works
James Mooney, Health Agent
Sonny Almeida, Superintendent of Parks and Forestry
Massachusetts Department of Environmental Protection, Division of Watershed Management

# NPDES PII Small MS4 General Permit
# Annual Report

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|---|---|
| ***Municipality/Organization:*** | **City of Attleboro, Massachusetts** |
| ***EPA NPDES Permit Number:*** | **MAR041087** |
| ***MADEP Transmittal Number:*** | **W–040422** |
| ***Annual Report Number:*** | **Report No. 5** |
| ***Reporting Period:*** | **May 1, 2007 through April 30, 2008** |

***Part I. General Information***


*Contact Person:* Lee Fuller
*Telephone #:* 508.223.2222 ext. 3145
*Title:* Environmental Planner
*Email:* conservation@cityofattleboro.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:* _____
*Printed Name:* Kevin J. Dumas
*Title:* Mayor
*Date:* April 30, 2008

## *Part II. Self–Assessment*

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

Part II.F
BMP 2-2 ("Stencil catch basins with "don't dump" message.") was not met; this BMP will be completed as an ongoing project within the City.

## *Part III. Summary of Minimum Control Measures*

### 1. Public Education and Outreach

| **BMP ID #** | **BMP Description** | **Responsible Dept./Person Name** | **Measurable Goal(s)** | **Progress on Goal(s) – Permit Year 5** (Reliance on non–municipal partners indicated, if any) | **Continuing Activities** |
|---|---|---|---|---|---|
| 1–1 | Article/brochure about stormwater mailed to residents and businesses | Environmental Planner | An article/brochure made available at City Hall and the public library and distributed to all residents and businesses during Permit Year 2 and Permit Year 4. | 16,000 stormwater education brochures specific to the City of Attleboro were printed and purchased. Brochures were distributed to the public at City Hall and other appropriate municipal buildings. A malfunction with the City Tax Collector's mail folding machine precluded mailing the brochures in utility bills.<br><br>Several hundred brochures were mailed out by the Conservation Commission during permit Year 5 as part of an education program throughout the City.<br><br>The brochures are available at City Hall and throughout municipal buildings, libraries and schools for public distribution. | The brochures will continued to be mailed out and used for educational purposes as part of the Conservation Commission duties and will be available at City Hall and throughout municipal buildings, libraries and schools for public distribution.<br><br>The brochures will be distributed to the Boy Scouts and other groups that are working closely with the Conservation Commission. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 1–2 | Update City website to include information on stormwater management issues | Environmental Planner / Conservation Commission | City website updated to include information on stormwater management issues. | The City of Attleboro website (www.cityofattleboro.us) has been updated to include information and education materials relating to stormwater and non point source pollution. The web site includes the City's Stormwater Management Plan (SWMP), Permit Year 1, 2, 3 and 4 Annual Reports, educational brochures and graphics, and a link to the Ten Mile River Watershed Stormwater Education Project website which was funded by a §604b grant from DEP. The site was revised and updated during Permit Year 5. | The stormwater and non point source pollution page of the City website will be maintained and updated with appropriate information by the Conservation Agent and the MIS Department. |
| 1–3 | Assist with cleanup days for rivers and waterbodies within City limits | Environmental Planner / Health Department / Department of Public Works | City may provide assistance to private organizations in the form of labor and disposal equipment but not formal sponsorship. | A planned clean-up day was performed on April 28, 2007 along the Ten Mile River walkway. Approximately 75 volunteers performed clean up of the Riverfront Area as well as the banks and Ten Mile River. Additionally, several areas of erosion were identified for future stabilization.<br><br>A planned clean-up day for April 19, 2008 was rescheduled to May 3, 2008. | A planned clean-up day of the Ten Mile River and Blackinton Park will occur on May 3, 2008. Numerous community volunteers are anticipated to participate including the Conservation Commission, Boy Scouts of America, local businesses as well as concerned citizens. The Conservation Commission is planning a clean up in Fall 2008 of the Bungay River Conservation Area with the Boy Scouts of America. |
| 1–4 | Stormwater education program for school children | Environmental Planner | A presentation and/or classroom and field time given to City middle and/or high school(s) | The Environmental Planner has met with staff responsible for ecology and environmental sciences programs at the Wamsutta Middle School and through an ecology program, has incorporated stormwater and non point source pollution issues into curriculum. Additionally, the Environmental Planner worked closely with several Cub Scout Packs this spring and presented stormwater information to the packs. | The Environmental Planner will continue to look to expand upon the educational opportunities throughout the local middle and high schools. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 1–5 | Present stormwater management issues to organizations in the City | Environmental Planner | A presentation given to at least one group annually. | A yearly update of the EPA NPDES permit was given to the Municipal Council on March 11, 2008. Additionally, on March 18, 2008, the municipal council held a public hearing relative to the proposed Stormwater Ordinance. Several presentations to the Cub Scouts were given throughout the Spring of 2008 and stormwater information was presented to the scouts and their parents. | Presentation will be given to private and/or public groups as needed. A public hearing on adopting the associated Stormwater Regulations is anticipated to occur in June 2008. |
| 1–6 | Educate dog owners about picking up dog waste | Environmental Planner / City Clerk | A pet waste fact sheet mailed to all dog owners in annual dog registration mailing. | The notice was mailed this year in the annual dog registration. The Notice is available at the Town Clerks office for dissemination. | The Town Clerk will continue to mail the notice each year in the annual dog registration mailing. |
| 1–7 | Install and maintain stormwater and pet waste clean–up signs at schools and parks | Park & Forestry Department / Recreation Department | The number of signs installed, number of signs inspected. | Pet waste cleanup signs have been installed at all City recreation facilities where pets are allowed, and at all City parks. In addition, these facilities provide pet waste litterbags and trash receptacles for proper disposal. | Pet waste cleanup signs will be maintained and added as needed throughout the City. |
| 1–8 | Staff a table with information about stormwater at Earth Day event each year | Health Department / Environmental Planner | A table staffed each year. The number of brochures handed out. | Stormwater education brochures and a portable informational display kiosk specific to the City of Attleboro and the Ten Mile River Watershed have been designed in conjunction with the Ten Mile River Watershed Stormwater Education Project funded by a §604b grant from DEP. In addition, general stormwater outreach materials including brochures and posters have been ordered and received from EPA. | Identify Earth Day events in the future and staff tables at the events utilizing the kiosk and materials that are available. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 1–9 | Continue to staff a table at weekly "Wednesday Night Market". Expand information dispensed to include stormwater–related topics. | Health Department / Environmental Planner | A table staffed each year. The number of brochures handed out. | The "Wednesday Night Market" was discontinued and no longer occurs. | Should a similar program begin, we will attempt to implement this BMP. |
| 1–10 | Annual update of the Stormwater Management Plan at a televised Municipal Council meeting. | Environmental Planner / Department of Public Works | Annual update of SWMP at a televised Municipal Council meeting. | An annual update of the SWMP permit was given to the Municipal Council on March 11, 2008 and was broadcast on public access television. | An update of SWMP activities including copies of this annual report will be presented during a Municipal Council meeting each year. |
| 1–11 | Appear on local access television talk show on City issues to discuss stormwater management issues. | Planning Department / Health Department / Department of Public Works | Periodic discussion of the importance of stormwater management presented to local access television. | The Environmental Planner appeared on Cable Access six times during the year 4 permit term. Appearances included discussion of stormwater issues, river clean-up days and wetlands preservation. | The Environmental Planner will continue to work with AACS (Cable Access) to appear on numerous shows to discuss stormwater related issues. |
| 1–12 | Post information on stormwater management issues on local access television. | Environmental Planner | Stormwater information posted and updated on local access cable television channel during periods of non–programming. | Several items were presented to the AACS (Cable Access) to be posted on the "Community Bulletin Board" channel. These items included discussion of the stormwater permit, importance of wetlands, importance of Vernal Pools and advertisements for river clean-up days. | The Environmental Planner will work with staff from the local access television channel to broadcast bulletin board information. |
| 1–13 | Post signs and develop and distribute brochures on Wall Street Highway Yard Stormwater Improvements project | Department of Public Works / Environmental Planner | Post signs and distribute information describing the project and its water quality benefits upon completion of construction. | This project entailed the implementation of a comprehensive stormwater management plan for the City's DPW Wall Street Highway Yard. The project was funded in part by a grant from DEP's Section 319 Non–point Source Pollution Competitive Grant Program. The City closed out the project through the EPA in June 2008. | The project is closed and no further activities are anticipated in relation to this project. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 1–14 | Distribute and display stormwater education materials within public buildings. | Environmental Planner | The number of days display is available. The number of brochures distributed. | Stormwater education brochures and a portable informational display kiosk specific to the City of Attleboro and the Ten Mile River Watershed have been designed in conjunction with the Ten Mile River Watershed Stormwater Education Project funded by a §604b grant from DEP. In addition, general stormwater outreach materials including brochures and posters have been received from EPA. The stormwater brochures are made available to construction contractors and the public at the following City offices: Planning Department, Building Inspection Department, and DPW. | The City will continue to ensure that watershed specific stormwater education materials including the display kiosk are displayed regularly at City Hall, the Attleboro Public Library, and other public buildings. |

## 2. Public Involvement and Participation

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 2–1 | Comply with state public notification guidelines at MGL Ch. 39 Section 23B. | Department of Public Works / Environmental Planner / Health Dept | Public notices posted in designated locations. | Public notices are posted in compliance with MGL Ch. 39 Section 23B requirements. | The City will continue to post proper public notices. |
| 2–2 | Stencil catch basins with "don't dump" message. | Department of Public Works | The number of catch basins stenciled. | Stencils with wording: "Dump No Waste Drains to River" and "Dump No Waste Drains to Ten Mile River" have been ordered and received. | The Department of Public Works will begin spraying catch basins throughout the City. |

## 3. Illicit Discharge Detection and Elimination

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 3–1 | Conduct dry weather outfall screening | Department of Public Works | The percent of outfalls screened. | The City has mapped its stormwater collection system (see BMP 3–2 & 3–3) including all of its known outfalls. A total of 549 outfalls have been identified and mapped using a geographic information system (GIS). City staff, along with an engineering consultant, have attempted to field locate each outfall and screen each for dry weather flow. A total of 405 outfalls have been located and screened in the field. The locations (including x, and y coordinates) of each outfall have been inputted into the GIS (see also BMP 3–2 & 3–3) along with a photograph, and field notes relating to dry weather flow. | City departments will continue to monitor outfalls throughout the City and notify the Environmental Planner of any suspicious flows within the City. |
| 3–2 | Map stormwater outfalls and receiving waters | Environmental Planner / Department of Public Works | Map of all known outfalls and their receiving waters created. | The City has mapped its stormwater collection system (see BMP 3–1 & 3–3) including all of its known outfalls and their receiving waters. A total of 549 outfalls have been identified and mapped. The stormwater collection system has been included as a separate layer in the City's GIS system (see BMP 3–3). The locations of outfalls have been field–verified and located using either GPS technology or traditional surveying techniques. This information has been inputted into the GIS system. | The City will continue to update the GIS system as needed. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 3–3 | Map the stormwater collection system in a GIS | Environmental Planner / Department of Public Works | Create map of stormwater system. | The City has mapped its stormwater collection system (see also BMP 3–1 & 3–2) including all of its known catch basins, pipelines, manholes, and outfalls. The stormwater collection system has been included as a separate layer in the City's GIS system. DPW maintains records of all drainage system repairs, upgrades, and expansions. | The stormwater collection system layer of the GIS system has been revised to include field–verified locations, descriptions and screening data for each identified outfall (see BMP 3–1 & 3–2). The GIS drainage layer will continue to be revised and updated as existing structures are repaired or modified, and as additional drainage components (e.g. new developments or new structures added to existing systems) are constructed. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 3–4 | Develop and implement plan to identify and remove non–stormwater discharges | Environmental Planner / Department of Public Works | Number of illicit connections found and removed. | The City has attempted to field locate each outfall and screen each for dry weather flow. A total of 405 outfalls were located and screened in the field. Conditions at each outfall were noted and a photograph was taken of each. This information has been included in the stormwater layer of the City's GIS system. A total of six (6) outfalls with dry weather flow and/or obvious signs of contaminants were noted and were evaluated further for evidence of illicit connections. This further evaluation did not identify any evidence of illicit connections to these outfalls and the source of flows in each was determined and found to be innocuous or an isolated event. As the source of dry weather flow to each outfall was identified and determined to be from a source other than illicit connections, no TV inspections were necessary. | The City will continue to evaluate dry weather flows and inspect drainage components for illicit connections as necessary. A database will be developed to track inspections and observations of dry weather flows. Those outfalls with dry weather flows suspected of contamination will be investigated. |
| 3–5 | Develop ordinance that prohibits non–stormwater connections to the municipal separate storm sewer system (MS4), gives the City authority to access buildings to search for illicit connections, and allows the City to require redirection of any illicit connections found. | City Attorney / Planning Department / Department of Public Works | A draft ordinance developed and presented to Municipal Council. | The City of Attleboro adopted a Stormwater Management Ordinance on April 15, 2008 that prohibits non–stormwater connections to the municipal separate storm sewer system (MS4), gives the City authority to access buildings to search for illicit connections, and allows the City to require redirection of any illicit connections found. | The Conservation Commission plans to hold a public hearing in June 2008 to adopt associated Stormwater Regulations under the City of Attleboro Stormwater Management Ordinance. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 3–6 | Continue inspection of new construction for correct connection | Department of Public Works / Dept of Water and Wastewater | New construction inspected. | The Department of Water and Wastewater inspects every permitted connection for new construction to ensure that water and sanitary sewer lines are correctly tied to municipal service lines. The DPW inspects new stormwater management system components to ensure that they are constructed in accordance with approved plans. | This program will continue to ensure new construction is constructed property. |

## 4. Construction Site Stormwater Runoff Control

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 4–1 | Construction site erosion and sedimentation control ordinance for construction sites greater than 1 acre in area | City Attorney / Planning Department / Department of Public Works | A draft ordinance developed and presented to Municipal Council. | The Municipal Council adopted a Stormwater Management Ordinance on April 15, 2008 requiring an erosion and sediment control plan and waste management plan for all projects subject to the Stormwater Ordinance. | The Conservation Commission plans to hold public hearings in June 2008 to adopt Stormwater Regulations under the City of Attleboro Stormwater Management Ordinance. |
| 4–2 | Require construction site operator to submit monthly erosion and sediment control inspection reports for sites greater than 1 acre. | Department of Public Works | Inspection reports submitted to the City. | The Municipal Council adopted a Stormwater Management Ordinance on April 15, 2008. | The Conservation Commission plans to hold public hearings in June 2008 to adopt Stormwater Regulations under the City of Attleboro Stormwater Management Ordinance. These regulations will require submission of inspection reports for construction sites. |
| 4–3 | Review site plans for stormwater impacts | Environmental Planner / Planning Board / Conservation Commission / Zoning Board of Appeals | The number of site plans reviewed for erosion and sediment control. | The Planning Board, Conservation Commission, and Zoning Board of Appeals regularly review all proposed development plans for proper erosion and sediment controls during construction. | Municipal boards will continue to review proposed development plans. |
| 4–4 | Consider public input | Environmental Planner / Planning Board | Public review and comment periods held; signs posted at each construction site. | Those developments that are permitted by the Planning Board, Conservation Commission, and Zoning Board of Appeals are reviewed at public hearings in which public comments are accepted. | Municipal boards will continue to review proposed development plans |

## 5. Post–Construction Stormwater Management in New Development and Redevelopment

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 5–1 | Develop ordinance to apply Standards 2, 3, 4, 7, and 9 of the Massachusetts Stormwater Policy to the entire City. Present to Municipal Council. | City Attorney / Planning Department / Department of Public Works | A draft ordinance developed and presented to Municipal Council. | The Municipal Council adopted a Stormwater Management Ordinance on April 15, 2008 that requires specific performance standards as presented in the Massachusetts Stormwater Management Standards. | The Conservation Commission plans to hold a public hearing in June 2008 to adopt the associated Stormwater Regulations under the City of Attleboro Stormwater Management Ordinance. |
| 5–2 | Specify a stormwater BMP manual to be used for consistent design and performance standards | Environmental Planner | BMP manual selected. | The Municipal Council adopted a Stormwater Management Ordinance on April 15, 2008 that specifies the Massachusetts Stormwater Management Handbook as the BMP manual to be utilized for all stormwater permits. | The Conservation Commission plans to hold a public hearing in June 2008 to adopt the associated Stormwater Regulations under the City of Attleboro Stormwater Management Ordinance. |
| 5–3 | Ensure long–term maintenance of structural BMPs. | City Attorney / Planning Department | A draft ordinance developed and presented to Municipal Council. | The Municipal Council adopted a Stormwater Management Ordinance on April 15, 2008 that requires long-term maintenance and reporting on structural BMPs be provided to the Conservation Commission on a yearly basis for review. | The Conservation Commission plans to hold a public hearing in June 2008 to adopt the associated Stormwater Regulations under the City of Attleboro Stormwater Management Ordinance. |

## 6. Pollution Prevention and Good Housekeeping in Municipal Operations

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 6–1 | Employee training program. | Department of Public Works / Environmental Planner | The number / percent of DPW employees who receive stormwater training each year. | All appropriate staff (approximately 25 individuals) from the DPW, Forestry, Parks & Recreation, and Health Departments participated in annual pollution prevention training. In addition, personnel from these departments have received brochures and educational information relating to stormwater pollution and many have directly participated in the implementation of the Wall street Highway Yard Stormwater Improvement Project that was recently completed (see BMP 6–18). Still others have participated in field activities associated with the mapping of storm drain outfalls and the identification of dry weather flows and elicit connections (see BMPs 3–1 & 3–2). | Appropriate staff will continue to receive training and educational information pertaining to stormwater pollution throughout the permit term. Information will be specific to activities routinely undertaken by City employees in the performance of their regular duties. Training may coincide with spill prevention and response training provided by Health Department (see BMP 6–7). |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 6–2 | Continue street and parking lot sweeping. | Department of Public Works | Tons of material removed from roadways and public parking lots annually. | The Department of Public Works swept each public street and parking lot during the spring using both City–owned and contracted sweepers. In addition, downtown streets are swept twice weekly throughout warm weather months and others may be swept during the year on an as–needed basis. Material is properly disposed of as cover in a permitted City–owned landfill. The City removed an estimated 550 tons of sand and debris from City roadways during Permit Year 5. | The City will continue to sweep all public streets and parking lots. |
| 6–3 | Storm drain maintenance | Department of Public Works | Percent of catch basins cleaned annually. | The City maintains an estimated 3,730 stormwater catchbasins. The Department of Public Works cleans catch basins regularly throughout the year using a truck mounted "clam shell" device. In addition, a contracted "vactor" truck is hired as needed to remove accumulated sediments from drainage structures when it is determined that City–owned equipment would be inadequate to remove the material. Residuals are properly disposed of as cover in a permitted City–owned landfill. An estimated 729 catch basins were cleaned – with an estimated 550 tons of sand and debris removed – during Permit Year 5. DPW staff evaluates maintenance needs including equipment and record keeping in an effort to prioritize work and improve efficiency. | The City will continue to maintain drainage structures and remove accumulated sediments from catch basins and pipelines as needed. DPW staff will utilize the GIS system to better track catch basin and drainage line cleanings and prioritize work. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 6–4 | Evaluate street sweeping and catch basin cleaning equipment | Department of Public Works | Evaluation of existing equipment. | The City DPW currently operates one truck mounted "clam shell" device for cleaning catch basins. In addition, the City operates two street sweeping vehicle and several smaller motorized sweepers for cleaning small parking lots and sidewalks. Each Spring, the City contracts with a private vendor for additional street sweeping services. The City purchased one new street sweeping vehicle during Permit Year 2. | The DPW is considering the purchase of a "vactor" truck to more efficiently clean basins and drainage pipelines (see BMP 6–3). The purchase of this type of vehicle is currently included in the City's Capital Improvements Plan for FY 2009 as a "Priority 1" project. See page 49 of the 2009–2013 CIP Plan. |
| 6–5 | Roadway deicing | Department of Public Works | Reduction in the amount of deicers used (compared to past years with similar snowfall and demand) and environmental impacts. | The DPW along with private contractors working under DPW direction implement the City's winter roadway deicing program. Roadways are treated with a mixture of sand and salt as conditions warrant. Downtown streets are treated with salt only. During winter 2007–2008, the City applied an estimated 3,578 tons of sand and 2,926 tons of salt to City roadways. The sand / salt mixture is stockpiled under separate cover. DPW staff evaluated the deicing program to improve efficiency and effectiveness and to limit the amount of deicing materials placed on roadways while maintaining public safety. | DPW staff will continue to monitor industry standards and utilize methods of roadway deicing that are efficient and effective. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 6–6 | Proper snow disposal | Department of Public Works | Designated snow disposal areas identified. | DPW staff has reviewed DEP's snow disposal guidelines and have sought to identify appropriate snow disposal locations within close proximity to downtown. Only snow removed from roadways and sidewalks within the downtown business district are transported for disposal. Several public and private parcels that meet DEP disposal guidelines were identified and utilized during the winter 2007–2008. | DPW staff will dispose of snow removed from roadways and sidewalks in accordance with DEP disposal guidelines. |
| 6–7 | Continue spill prevention and response training at DPW facility. | Department of Public Works / Health Department | The periodic training of employees | The Health Department retains the services of an outside waste management consultant to provide periodic spill prevention and response training to DPW employees working at the Wall Street Highway Yard. Participants are provided with handouts including a training manual for spill response a copy of the *Emergency Response Guidebook*. The City has also purchased two self–contained portable spill response kits, which are maintained at the Wall Street Highway Yard. Personnel are trained in the appropriate use of these materials as first responders to a spill of oil or hazardous materials. | Training session will be held periodically as needed according to employee turnover. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 6–8 | Develop written spill prevention and response plan for DPW facility. | Department of Public Works / Health Department | A written spill response plan developed and updated annually. | The Health Department has constructed a new hazardous waste storage building to temporary store wastes collected from the public (see BMPs 6–15 & 6–16) and from municipal operations. This new hazardous waste storage building is located at Pond Street. | The Health Department will continue to utilize the new building for its hazardous waste storage and will develop a SPRP plan for the new facility. |
| 6–9 | Continue to maintain hazardous materials inventory. | Department of Public Works / Fire Department / Health Department | Maintenance of hazardous materials inventory system. | The Health Department and Fire Department maintains an inventory of hazardous materials used by City departments as well as documentation of hazardous waste generated and disposed of by the City. | The Health Department and Fire Department will continue to document hazardous materials and waste used and generated by City departments. |
| 6–10 | Minimize impacts from vehicle maintenance | Department of Public Works | The reduction in amount of hazardous materials used. | The DPW minimizes the use of hazardous materials at their Wall Street Highway Yard to the extent practicable. | The DPW will continue to explore ways to minimize the use of hazardous materials at their Wall Street Highway Yard. |
| 6–11 | Minimize impacts from vehicle washing. | Health Department / Department of Public Works / Fire Department / Police Department | Investigate current vehicle washing practices and recommend improvements. Decline in use of soap. Switch to biodegradable soap. | The Health Department has investigated vehicle–washing practices by the DPW, Fire, and Police Departments and is searching for an appropriate biodegradable, phosphorus–free detergent for these departments to use. | An appropriate biodegradable, phosphorus–free detergent will be identified and purchased for the DPW, Fire Department, and Police Department to use when washing vehicles. |
| 6–12 | Park and landscape maintenance. | Park & Forestry Department / Recreation Department | The amount of herbicides & fertilizers used. | Park & Forestry Department field personnel are trained in the proper application of fertilizers, herbicides, and pesticides at all City parks. In addition, the Recreation Department is staffed by one licensed pesticide applicator that is responsible for the application of all fertilizers, herbicides, and pesticides at City recreation facilities. These departments keep records of the amounts of these materials used throughout the year. | The Park & Forestry Department and Recreation Department will continue to staff trained personnel. These departments will also maintain records of fertilizers, herbicides, and pesticides used. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 6–13 | Continue tree planting and maintenance program. | Park & Forestry Department / Recreation Department | The number of trees planted. | The Department of Parks and Forestry planted approximately 10 trees on public roadways and properties during Permit Year 5. The City has also begun the development of a tree farm for use for City projects and currently has 75 trees in the tree farm. | The tree–planting program will continue and the City tree farm will be maintained. |
| 6–14 | Illegal dumping control. | Department of Public Works / Health Department | The number of signs posted. The number of sites cleaned up | The Health Department routinely investigates reports of illegal dumping of waste throughout the city. The Health Department attempts to identify the responsible party and order cleanup. When necessary, the DPW will remove waste material for proper disposal. Signs are posted warning of violations for illegal dumping. The Health Department and/or DPW posted signs and removed waste from dumping areas. | The Health Department will maintain records of all identified illegal dumping areas and cleanup/enforcement actions. |
| 6–15 | Continue to hold Annual Household Hazardous Waste Collection Day. | Health Department | Household hazardous waste collection monthly during non–winter months. Bulk items collected by appointment throughout the year. | The Health Department conducted collections for paint products, automotive wastes, batteries, and fluorescents for city residents on the first Saturday of the month from April through November. This program was used by an average of more than 215 residents per event and collected approximately 1,534 tires, 3,722 gallons of waste oil, 9,544 gallons of latex/oil paint, 250 gallons of antifreeze, 468 propane tanks, 1,108 florescent lamps, 5 gallon pails of alkaline batteries, 340 auto batteries, 408 tons of CRT/electronics and 338 gallon drums of used oil filters. All waste material collected was received by a licensed waste disposal contractor and removed for proper disposal. | The Health Department has scheduled paint product and automotive waste collection days for the first Saturday of the month from April through June and from August through November. These events will be held annually. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 6–16 | Continue to provide monthly waste drop off days. | Health Department | Paint products and automotive wastes collected from residents monthly during non–winter months. Bulk items collected by appointment throughout the year. | The Health Department conducted collections for paint products, automotive wastes, batteries, and fluorescents for city residents on the first Saturday of the month from April through November. This program was used by an average of more than 215 residents per event and collected approximately 1,534 tires, 3,722 gallons of waste oil, 9,544 gallons of latex/oil paint, 250 gallons of antifreeze, 468 propane tanks, 1,108 florescent lamps, 5 gallon pails of alkaline batteries, 340 auto batteries, 408 tons of CRT/electronics and 338 gallon drums of used oil filters. All waste material collected was received by a licensed waste disposal contractor and removed for proper disposal. | The Health Department has scheduled paint product and automotive waste collection days for the first Saturday of the month from April through June and from August through November. These events will be held annually. |
| 6–17 | Continue enforcement of pet waste pick–up ordinance. Continue frequent trash barrel emptying to encourage proper disposal. | Health Department / Animal Control Officer / Department of Public Works / Parks & Forestry Department / Recreation Department. | Reduction of complaints if any in public areas; frequency of trash barrel emptying. | The City's Animal Control Officer enforces the pet waste pick–up ordinance throughout the city. In addition, the Park & Forestry Department and Recreation Department enforce the ordinance within City parks and recreation facility properties. The Conservation Agent has performed 10 mailings with information relative to pet waste pick-up to areas where complaints have been received. | City staff will continue to enforce the pet waste pick–up ordinance and will disseminate information as deemed necessary. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non–municipal partners indicated, if any) | Continuing Activities |
|---|---|---|---|---|---|
| 6–18 | Implement stormwater improvements at Wall Street Highway Yard | Department of Public Works / Environmental Planner | Construction of stormwater improvements project. | This project entailed the implementation of a comprehensive stormwater management plan for the City's DPW Wall Street Highway Yard. The project was funded in part by a grant from DEP's Section 319 Non–point Source Pollution Competitive Grant Program. The City has completed the installation of all drainage inlets, treatment units, associated pipelines, and one bio–retention filter. Work for the project has been completed. | Construction activities related to this project were completed during Permit Year 4. |
| 6–19 | Enter into agreement with Historic Preservation Officer to mitigate potential negative stormwater impacts to Blackinton Houses & Park. | Environmental Planner / Department of Public Works | A written agreement with the Historic Preservation Officer (SHPO) obtained and appended to the SWMP. | The City has received correspondence from the SHPO stating that no agreement is needed to mitigate potential impacts as no work is currently proposed near the Blackinton Houses and Park. | The City will contact the Historic Preservation Officer if any future work is proposed near the Blackinton Houses and Park. |

## 7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

Not Applicable. TMDLs have not been developed for any of the impaired water bodies in Attleboro.

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

There is no information or data that was collected during Permit Year 5 that is not included elsewhere in this report.

## *Part V. Program Outputs & Accomplishments*

### Programmatic

| | | |
|---|---|---|
| Stormwater management position created/staffed | (y/n) | **No** |
| Annual program budget/expenditures | ($) | **Not Determined** |

### Education, Involvement, and Training

| | | |
|---|---|---|
| Estimated number of residents reached by education program(s) | (# or %) | **20%** |
| Stormwater management committee established | (y/n) | **Yes** |
| Stream teams established or supported | (# or y/n) | **No** |
| Shoreline clean–up participation or quantity of shoreline miles cleaned | (y/n or mi.) | **Yes, 3 Miles** |
| Household Hazardous Waste Collection Days | | |
| ▪ days sponsored | (#) | **9 Days** |
| ▪ community participation | (# of residents) | **1,896 +/–** |
| ▪ material collected | (#, pounds, tons or gallons) | **1,534 tires**<br>**3,722 gallons of waste oil**<br>**9,544 gallons of latex/oil paint**<br>**250 gallons of antifreeze**<br>**468 propane tanks**<br>**1108 florescent lamps**<br>**5 5–gallon pails of alkaline batteries**<br>**340 auto batteries**<br>**408 tons of CRT/electronics**<br>**338 gallon drums of used oil filters** |
| School curricula implemented | (y/n) | **Yes** |

## Legal/Regulatory

| | In Place Prior to Phase II | Under Review | Drafted | Adopted |
|---|---|---|---|---|
| Regulatory Mechanism Status (indicate with "**X**") | | | | |
| ▪ Illicit Discharge Detection & Elimination | | | | **X** |
| ▪ Erosion & Sediment Control | | | | **X** |
| ▪ Post–Development Stormwater Management | | | | **X** |
| Accompanying Regulation Status (indicate with "**X**") | | | | |
| ▪ Illicit Discharge Detection & Elimination | | | **X** | |
| ▪ Erosion & Sediment Control | | | **X** | |
| ▪ Post–Development Stormwater Management | | | **X** | |

## Mapping and Illicit Discharges

| | | |
|---|---|---|
| Outfall mapping complete | (%) | **100%** |
| Estimated or actual number of outfalls | (#) | **549** |
| System–Wide mapping complete | (%) | **100%** |
| Mapping method(s) | | |
| ▪ Paper/Mylar | (%) | **100%** |
| ▪ CADD | (%) | **0%** |
| ▪ GIS | (%) | **100%** |
| Outfalls inspected/screened | (# or %) | **405 or 74%** |
| Illicit discharges identified | (#) | **0** |
| Illicit connections removed | (#)<br>(est. GPD) | **None** |
| % of population on sewer | (%) | **65% +/–** |
| % of population on septic systems | (%) | **35% +/–** |

## Construction

| | | |
|---|---|---|
| Number of construction starts (>1–acre) | (#) | **7+/–** |
| Estimated percentage of construction starts adequately regulated for erosion and sediment control | (%) | **100%** |
| Site inspections completed | (# or %) | **100%** |
| Tickets/Stop work orders issued | (# or %) | **5** |
| Fines collected | (# and $) | **10, 18,300** |
| Complaints/concerns received from public | (#) | **Not Determined** |

### Post–Development Stormwater Management

| | | |
|---|---|---|
| Estimated percentage of development/redevelopment projects adequately regulated for post–construction stormwater control | (%) | **85%** |
| Site inspections completed | (# or %) | **Not Determined** |
| Estimated volume of stormwater recharged | (GPY) | **Not Determined** |

### Operations and Maintenance

| | | |
|---|---|---|
| Average frequency of catch basin cleaning (non–commercial/non–arterial streets) | (times/yr) | **1** |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets) | (times/yr) | **1** |
| Total number of structures cleaned | (#) | **729** |
| Storm drain cleaned | (LF or mi.) | **Not Determined** |
| Quantity of screenings/debris removed from storm sewer infrastructure | (lbs. or tons) | **550 Tons** |
| Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.) | | **Private Contractor** |
| Cost of screenings disposal | ($) | **None** |

| | | |
|---|---|---|
| Average frequency of street sweeping (non–commercial/non–arterial streets) | (times/yr) | **1** |
| Average frequency of street sweeping (commercial/arterial or other critical streets) | (times/yr) | **104 +/– (Downtown)** |
| Quantity of sand/debris collected by sweeping | (lbs. or tons) | **1,835 tons** |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) | (location) | **Private Contractor** |
| Cost of sweepings disposal | ($) | **None** |
| Vacuum street sweepers purchased/leased | (#) | **None** |
| Vacuum street sweepers specified in contracts | (y/n) | **No** |

| Reduction in application on public land of: ("N/A" = never used; "100%" = elimination) | | |
|---|---|---|
| ▪ Fertilizers | (lbs. or %) | **Not Determined** |
| ▪ Herbicides | (lbs. or %) | **Not Determined** |
| ▪ Pesticides | (lbs. or %) | **Not Determined** |

| | | |
|---|---|---|
| Anti–/De–Icing products and ratios | % NaCl<br>% $CaCl_2$<br>% $MgCl_2$<br>% CMA<br>% Kac<br>% KCl<br>% Sand | **25%**<br><br><br><br><br><br>**75%** |
| Pre–wetting techniques utilized | (y/n) | **No** |
| Manual control spreaders used | (y/n) | **Yes** |
| Automatic or Zero–velocity spreaders used | (y/n) | **No** |
| Estimated net reduction in typical year salt application | (lbs. or %) | **Not Determined** |
| Salt pile(s) covered in storage shed(s) | (y/n) | **Yes** |
| Storage shed(s) in design or under construction | (y/n) | **A new salt storage shed was constructed in Permit Year 3 and the old shed is utilized for storage of sand/salt mix.** |