

Municipality/Organization: City of Leominster, MA

EPA NPDES Permit Number: MAR041203

MassDEP Transmittal Number: W-041009

1. Annual Report Number Year 11
& Reporting Period: April 1, 2013 – March 31, 2014

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

Part I. General Information

Contact Person: Mayor Dean J. Mazzarella **Title:** Mayor

Telephone #: 978-534-7500 **Email:** dmazzarella@leominster-ma.gov

Mailing Address: City Hall, 25 West Street, Leominster, MA 01453

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: Dean J. Mazzarella

Title: Mayor

Date: April 17, 2014

Part II. Self-Assessment

During Permit Year 11, the City continued to implement stormwater management practices and has achieved nearly all of the measurable goals for the BMPs selected. The City would like to highlight the following program accomplishments:

- The City has maintained a robust stormwater Public Education and Outreach campaign due in part to their partnership with the Massachusetts Watershed Coalition, a local environmental organization focused on protection and restoration of local watersheds. The City has used multiple forms of media to maximize their stormwater message – Leominster Access TV, public workshops, written brochures and fact sheets, and more.
- The City’s Stormwater Advisory Committee meets regularly to discuss stormwater management activities.
- Residents of Leominster have the opportunity to participate in a number of City sponsored events with the environment and clean waters in mind, such as the Annual Monoosnoc Brook Clean-up, Electronics Recycling Day at City Hall, and free workshops at the Leominster Public Library.
- The City has identified and mapped all known outfalls in the Urbanized Area.
- The *Illicit Connections and Discharges to the Storm Drain System Ordinance* was adopted in March 2005. Granite Street Stormwater Demonstration Park. The Granite Street Stormwater Improvements Plan are part of an ongoing MassDEP S.319 project for remediation of stormwater that damages Monoosnoc Brook and Rockwell Pond. The Granite Street Stormwater Park is being retrofitted with stormwater best management practices (BMPs) to treat the first one-half inch of run-off from approximately four acres of asphalt pavement roadway in the City. In the fall of 2010 the sediment vault, infiltration trench and a 1,299 square foot bioretention area (bio-cell) were installed. Additional treatment practices were installed in spring 2011, which included a gravel wetland and tree box filters. In Permit Year 11, the City continued to invest in green infrastructure through the S.319 grant, including installing sediment vaults on Mill Street and two rain gardens on Boyle Place and Manning Avenue.
- The City continued work on the Monoosnoc Brook drainage enhancement projects on Adams Street, including stream cleaning, pipe cleaning, and installation of a new stormwater treatment “treebox” filter.

The City currently reviews nearly all projects disturbing one acre or greater through the existing local permitting process (Conservation Commission, ZBA, Planning Board, and Building Department). The Stormwater Advisory Committee presented a stormwater ordinance to City Council in March 2005 that was not adopted. A revised *Stormwater and Erosion Control Ordinance* is now before City Council and the City Solicitor in the final stages before adoption.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1.1	Educational signage at high-use recreational areas	Recreation & Conservation	Install signage at watershed trail areas and dog park	BMP complete. The City continues to maintain all posted signs as needed. In May 2005, a total of 36 new signs were installed. During Permit Year 10, 10 new Conservation Signs were added at new locations (Sholan Farms, Wachusett St., Hill St., Barrett Park, and Prospect Park) for a total of 46 maintained signs. No new signs were added during Permit Year 11.	Measurable goals for the 2003 General Permit have been met. Continue to maintain signs.
Revised					
1.2	General Education Brochure	DPW Engineering	Develop and distribute mass mailing in water bills	BMP complete. No activities were planned for Permit Year 11. Stormwater educational brochures, based on EPA's educational materials, were distributed in previous Permit Years.	Measurable goals for the 2003 General Permit have been met.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
	Lawn care and pet waste brochure and survey	Engineering and Conservation Commission	Continue Public Education Efforts	<p>Stormwater educational fact sheets and displays continue to be displayed at the library and City Hall, outside of the Building Department office. This display was sponsored by the Leominster Public Library and the Massachusetts Watershed Coalition. The information targets residents, developers, businesses, and other institutions in Leominster. Fact Sheets include:</p> <ul style="list-style-type: none"> • <i>Is Your Lawn Care Stormwater-Friendly?</i> • <i>Making Auto Care Stormwater-Friendly</i> • <i>Pet Waste and Water Quality</i> • <i>Example Rain Garden Illustration</i> • <i>Reducing Pavement & Permeable Paving Options</i> • <i>Using Rock-filled Trenches</i> • <i>Vegetated Swales</i> • <i>Info re: Fertilizers & Water Quality</i> 	Measurable goals for the 2003 General Permit have been met. Continue to work with the Massachusetts Watershed Coalition to provide stormwater informational materials at City buildings.
Revised	Healthy Lawn Workshop	DPW & MassDEP	Broadcast on local cable TV	<p>The City and the Massachusetts Watershed Coalition hosted MassDEP's <i>Healthy Landscaping & Lawn Care Workshop</i> on June 7, 2011 at the Leominster Public Library. A video of this free workshop is available to watch anytime on the LATV website under "Media on Demand." http://www.leominster.tv/publicweb/SitePages/latv_mod.aspx</p>	Measurable goals for the 2003 General Permit have been met. Host additional free workshops related to stormwater and nonpoint source pollution when possible.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1.3	Stormwater Curriculum for grades 5 & 6	Conservation & School Dept.	No measurable goals planned for Permit Year 11	Fall Brook Elementary School students, working with the Massachusetts Watershed Coalition, installed a rain garden at the school in May 2009. The City continues to provide support and guidance to the Fall Brook Rain Garden Project, including additional plantings, weeding, public outreach, and scientific investigation by students and teachers.	Measurable goals for the 2003 General Permit have been met.
Revised				During Permit Year 11, all elementary and middle schools included a stormwater curriculum developed in association with the Nashua River Watershed Association and Massachusetts Department of Conservation and Recreation. A stormwater educational kiosk was installed at City Hall.	
	Stormwater Runoff Public Service Announcements	Conservation & DPW	Reach as many households as possible	During Permit Year 9, the City hosted a presentation by Ed Himlan of the Massachusetts Watershed Coalition	Measurable goals for the 2003 General Permit have been met.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
Revised				<p>titled, <i>Creating a Rain Garden for Your Home</i> on April 7, 2011 at the Leominster Public Library. A video of this free workshop is available to watch anytime on the LATV website under “Media on Demand.” (http://www.leominster.tv/publicweb/SitePages/latv_mod.aspx)</p> <p>The City obtained EPA’s new free stormwater DVD, <i>Reduce Runoff: Slow it Down, Spread it out, Soak it in!</i> and it aired on LATV once per quarter during Permit Year 11. Copies of the DVD are available at City Hall and the library.</p>	The City plans to air EPA’s DVD again this year.
	Pet Waste PSA and Brochure	Conservation & DPW	Reach local residents	In previous permit years, a Pet Waste brochure was mailed out to all licensed	Measurable goals for the 2003 General Permit have been met.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
Revised				<p>dog owners. The City continued to distribute the brochure during Permit Year 11 – approximately 40 brochures were distributed at City Hall, the Recreation Department, and Sholan Farms.</p> <p>During Permit Year 11, the Conservation Commission mailed educational letters to homeowners on 5 targeted streets (West St, Crystal Ave, Sylvan Terrace, Wilder Ave, Avon St) regarding pet waste in catch basins.</p> <p>The City continues to provide educational materials on Pet Waste at City buildings, maintain pet waste stations at public parks, and enforces City Code regarding proper pet waste disposal. ConCom led a door-to-door campaign regarding pet waste in catch basins and issued a warning to a resident during Permit Year 11.</p> <p>Fall Brook 5th Grade students created a Pet Waste PSA called, <i>Scoop it! Bag it!</i> as part of a comprehensive class project addressing the impact of pet waste on the environment. The PSA continued to be broadcast on LATV and is available to watch anytime on the LATV website under “Media on Demand.”</p>	Continue pet waste outreach efforts.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1.8	Develop Stormwater Website	ConCom & DPW	Add stormwater page to existing web site by Spring '05	Information regarding stormwater management is available on City websites. For example, the DPW Annual Reports, which include stormwater and drainage activities, can be downloaded on the City website (http://www.leominster-ma.gov/). Stormwater related PSAs are available to watch anytime on the LATV website under “Media on Demand” (see BMPs 1.2 and 1.3).	The City plans to improve the DPW and/or Conservation Commission pages to include information more specific to the “Small MS4” General Permit program. A stormwater website is in the process of being updated.
Revised					

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
2.1	Stormwater Advisory Committee	Public Works & ConCom	Establish Committee by Fall '03, etc.	The Stormwater Advisory Committee includes City staff from Public Works, Conservation, Health, and Water Departments. In Permit Year 11, this Committee met on the following dates: <ul style="list-style-type: none"> • April 22, 2013 • July 31, 2013 • September 16, 2013 • December 10, 2013 	Measurable goals for the 2003 General Permit have been met. The Stormwater Advisory Committee will continue to communicate and meet as needed to discuss stormwater management activities.
Revised					
2.2	Public Meetings on SWMP	SW Advisory Committee	Host annual public meetings each fall, beginning November 2005	During Permit Year 11, the City hosted educational workshops for the general public on stormwater issues presented by the Massachusetts Watershed Coalition and MassDEP. Please refer to BMPs 1.2 and 1.3.	Measurable goals for the 2003 General Permit have been met. The Stormwater Advisory Committee will solicit public comment during development of a new Notice of Intent and Stormwater Management

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
Revised					Plan when the reissued General Permit is finalized.
2.3	Shoreline Clean-ups	Public Works & ConCom	Expand annual Monoosnoc Brook cleanup. Remove trees along the north side of the brook through partnership with Mosquito Control.	A City project to clear Monoosnoc Brook for flood control (through a partnership with Mosquito Control) was completed in a previous permit year. The annual City-wide City Pride Cleanup Day was held on April 20, 2013 from 8 am to noon.	Continue to support community stewardship for the Monoosnoc Brook watershed through the Nashua River Watershed Association's <i>Monoosnoc Brook Greenway Project</i> (MBGP) and the Massachusetts Watershed Coalition's <i>Monoosnoc Brook Rescue Plan</i> .
Revised					The NWRA is leading the Monoosnoc Brook Cleanup on April 12th, 2014 from 1 p.m. to 4 p.m. Volunteers pick up trash along the banks and rake the walkways. The next annual City-wide City Pride Cleanup Day is scheduled for May 3, 2014.
2.4	Catch basin stenciling	Public Works	Stencil priority basins by Fall 2004. Will inspect March 2007.	BMP complete. Storm drain stenciling was completed by volunteer groups in September 2005. Stencils are available at DPW and used during community events.	Measurable goals for the 2003 General Permit have been met.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
2.5	HHW and Electronics Collection Events	Public Works	Host 4 annual HHW collection events	<p>Measurable goal met. In Permit Year 11, Public Works hosted four Hazardous Waste Collection days. The City offers curbside collection of yard waste for 8 weeks in the spring and fall. Residents can drop off yard waste at the transfer station at any time of year.</p> <p>The City holds a Spring Recycling Event on National Drug Take Back Day, collecting items such as electronics, motor oil, and drugs. The Health Department has collection boxes for used for used syringes, batteries and ink cartridges.</p> <p>The City provides detailed information on the Health Department's web page (http://www.leominster-ma.gov/health_department_rubbish.htm) regarding how, where, and the cost of disposal for almost any household item (from yard waste to bulk items to construction and demolition materials).</p>	<p>Continue to hold Hazardous Waste and Electronics collection events for citizens of Leominster. The next HHW days are planned for March 22, 2014, June 21, 2014, August 23, 2014, and November 22, 2014.</p> <p>The next planned Drug Take Back Day is for April 26, 2014. A new drug disposal kiosk will be placed in the Police Department for public use.</p> <p>Continue to provide information on proper disposal of all rubbish to discourage illegal dumping.</p> <p>The City is applying for a permit for composting organic materials collected from city-owned property. The humus will be used for stabilization of construction sites.</p>
Revised					

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
3.1	Identify & map outfalls and receiving waters	Engineering	Map all outfalls in GIS by Spring '05	Measurable goal met. The City has completed GIS outfall mapping that	Measurable goals for the 2003 General Permit have been met.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
Revised				includes receiving waters, and has identified 450 outfalls. During Permit Year 11, the City has started to document which outfalls are City-owned. So far, a total of 300 outfalls were identified as City-owned and in the urbanized area. Pipe connectivity is being confirmed in drainage problem areas, during capital improvement projects and during catch basin cleaning. These updates are incorporated into GIS.	Continue to improve drainage mapping as budget allows.
3.2	Screen outfalls for illicit connections	Public Works	Screen all outfalls by Spring '05	Public Works and the Massachusetts Watershed Coalition have performed in-stream monitoring at priority areas (North Nashua River, Monoosnoc	Upon reissue of the General Permit, the City will refine an Outfall Monitoring Program according to EPA's requirements.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
Revised				<p>Brook) in wet and dry weather.</p> <p>Opportunistic visual inspections are done during catch basin cleaning. Employees are trained on opportunistic inspections for illicit cross-connections.</p> <p>Several cross-connections, failed septic systems, and cracked sanitary lines have been addressed over the permit period.</p> <p>During the summer, the Nashua River Watershed Association, in cooperation with Leominster, conducts water quality sampling at four locations along the Monoosnoc Brook as well as the North Nashua River. Sampling parameters included E. coli, temperature, dissolved oxygen, and conductivity. A lot of bird/rodent/beaver activity was observed.</p> <p>The Health Department reviews all submitted Title V septic system inspection reports to ensure compliance and prevent pollution. All complaints related to sewage odors or discharges are investigated. All proposed septic system design plans are reviewed and inspections are performed during construction activities.</p>	

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
3.3	Draft Illicit Connection Bylaw	Engineering & ConCom	Submit to City Council Spring '04	BMP complete. The City amended their Municipal Code of Ordinances on March 28, 2005. <i>Article V. Illicit Connections and Discharges to the Storm Drain System</i> was added to Chapter 21 – Water & Sewers, which prohibits illicit discharges to the MS4 and City waters, illicit connections, and obstructions of the drainage system.	Measurable goals for the 2003 General Permit have been met.
Revised					
3.4	Revise Sewer and Drain Use Regulations	Engineering	Revise and adopt with new Illicit bylaw	See BMP 3.3 above.	Measurable goals for the 2003 General Permit have been met.
Revised				The City staff that clean the City's catch basins report violations of the City Code regarding improper pet waste disposal to the Director of Public Works.	Continue to enforce the Municipal Code of Ordinances Chapter 6 <i>Dogs</i> § 6-8. <i>Pet waste disposal</i> to the extent possible based on observed violations.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
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BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
4.1	Construction Site ESC Bylaw and regulations for sites >1-acre	Con Com, Public Works	Review existing mechanisms for adequacy and completeness by Spring '05, etc.	The City currently reviews nearly all projects disturbing one acre or greater through the existing local permitting process (Conservation Commission, ZBA, Planning Board, and Building Department). The Stormwater Advisory Committee presented a stormwater ordinance to City Council in March 2005 that was not adopted.	The Stormwater Advisory Committee will continue efforts to adopt the <i>Stormwater and Erosion Control Ordinance</i> as soon as possible. A revised <i>Stormwater and Erosion Control Ordinance</i> is scheduled to be reviewed by the Mayor and Stormwater Advisory Committee on April 30, 2014.
Revised					
4.2	Site Plan Review	Planning, Building & Engineering	Incorporated into Development Review Board process with appropriate ordinance changes	Changes to the existing Site Plan Review ordinance and procedures were investigated in a prior permit year.	Improved construction site runoff control requirements will be included in the <i>Stormwater and Erosion Control Ordinance</i> and Regulations developed thereunder.
Revised					
4.3	Site Inspections	Health Dept. & ConCom	Implement new site inspection process for Spring '07	The Health Inspector and/or the Conservation Agent/Environmental Inspector have performed weekly inspections at all construction sites since 2005. The City maintains records of site inspections and persistently enforces local stormwater requirements. There were approximately five non-compliance orders regarding erosion controls during Permit Year 11. A list of projects on hold or under enforcement (non-conformance orders) is available through the Conservation Agent. The City has documentation for all site inspections.	Continue construction site inspections by City personnel. Additional construction site runoff control measures and site inspection requirements will be included in the <i>Stormwater and Erosion Control Ordinance</i> and Regulations developed thereunder.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
4.4	Establish system to report non-compliant activities	Con Com	Establish during 2004 construction season & use web site reporting	The Conservation Agent has taken the lead in doing site inspections of construction sites. The Conservation Agent receives calls and complaints from the public, which are reported, along with any action taken, to the Conservation Commission in the Agent's monthly reports.	The City will publish additional information on the web regarding situations when citizens should report non-compliant activities and who to call as part of BMP 1.8.
Revised					

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
5.1	Stormwater Management Ordinance and regulations for sites >1-acre	ConCom	Research and/or revise existing ordinances to comply with SWMP	The City currently reviews nearly all projects disturbing one acre or greater through the existing local permitting process (Conservation Commission, ZBA, Planning Board, and Building Department). The Stormwater Advisory Committee presented a stormwater ordinance to City Council in March 2005 that was not adopted.	The Stormwater Advisory Committee will continue efforts to adopt the <i>Stormwater and Erosion Control Ordinance</i> as soon as possible. A revised <i>Stormwater and Erosion Control Ordinance</i> is scheduled to be reviewed by the Mayor and Stormwater Advisory Committee on April 30, 2014.
Revised					

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
6.1	Employee Training	Public Works	Conduct stormwater training each winter	During Permit Year 11, the Conservation Agent attended a Massachusetts Watershed Coalition training titled “This Stormwater Advocates Training” on July 20 & 23, 2013, as well as a DPW Stormwater Training in June 2013 conducted by Kelley Freda.	Continue to identify training workshops for Stormwater Advisory Committee members and City staff responsible for implementing the SWMP.
Revised				Staff from the Stormwater Advisory Committee continues to receive hands-on training from the Massachusetts Watershed Coalition through training and public presentations.	
6.2	Street Sweeping	Public Works	Sweep all City streets annually by 6-30 and downtown areas once a week. Sweep outfall areas while doing main roads.	The City currently sweeps streets twice per year and twice per week downtown. The city bought a new mechanical street sweeper and a new clamshell truck during Permit Year 11, for a total of three street sweepers.	Continue the annual street sweeping program.
Revised					
6.3	Predictive catch basin cleaning program	Public Works	Clean all basins once per year (3600). Total costs per year.	The City cleaned 1,881 catch basins in Permit Year 11 and removed approximately 1,165 tons of material during catch basin cleaning operations. Now using a Vector to clean some basins with BMPs (such as hoods). Catch basins near sensitive resource areas such as streams are cleaned multiple times.	Upon reissuance of the General Permit, prioritize the cleaning schedule to reach outfall areas and other sensitive areas first.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
6.4	O&M Schedule for City owned structural BMPs	Engineering	Implement program by Spring '05	<p>The City owns and operates a number of structural BMPs through watershed restoration projects with BMP retrofits. These projects include the Granite Street Stormwater Demonstration Park, the Rockwell Pond Source Reduction Pilot Project, and the Lower Monoosnoc Brook Remediation Project. BMPs in use include bioretention areas or rain gardens, infiltration trenches, a sediment vault, a gravel wetland, tree box filters, and more. O&M Plans for these BMPs were developed for compliance with local permits. The City pays for third party operation and maintenance of BMPs..</p> <p>During Permit Year 11, the City built another bioretention cell at Mill Street in the fall.</p>	Continue to work with the Massachusetts Watershed Coalition on these watershed restoration projects that include structural BMPs as funding is available. DPW will continue to maintain the Granite Street Stormwater Park by routinely monitoring and removing sediments captured by the sedimentation tank, and monitoring the planted cattails and shrubs in wetland cells.
	O&M Schedule for City owned structural BMPs (continued)			<p>During Permit Year 11, the City replaced 78 sewer manhole covers and several sewer manholes.</p> <p>The City installed two 5000 gallon sediment vaults on Mill Street and an associated 33,000 square foot infiltration bed during Permit Year 11.</p>	Upon reissuance of the General Permit, the City plans to formalize their O&M procedures for City-owned properties and infrastructure according to EPA's requirements.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
Revised				<p>Two rain gardens were also installed, one with a tree box at the end of Boyle Place, and the other with a porous sidewalk on Manning Avenue. These projects were funded by the S.319 Nonpoint Source Competitive grant.</p> <p>The City installed The Monoosnoc Brook Walk during Permit Year 11, which has 3,600 square feet of porous pavers and a rain garden. The Walk was funded through the Executive Office of Energy and Environmental Affairs Gateway Grant.</p> <p>The Department of Public Works is responsible for snow removal City-wide, including all municipal parking lots, the Library, City Hall, Court House, Schools, downtown, Housing Authority parking lot, Senior Center, and Public Works facility.</p>	
6.5	Vehicle Washing: separate garage floor drains	Public Works	Tie garage drains into sanitary sewer	In prior permit years, the City determined that it was necessary to install an oil/water separator at the Public Works facility and redirect the floor drains to the sanitary sewer. All of the recommended work at the DPW garage has been completed, including retrofitting catch basins with hoods, eliminating floor drain sumps, and installing new drain and sewer lines.	BMP complete. Measurable goals for the 2003 General Permit have been met.
Revised					
6.6	Separate Combination Sewer/Drain Manholes	Public Works	Separate when encountered	Completed all 500 separations by September 2011.	BMP complete. Measurable goals for the 2003 General Permit have

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
Revised					been met.
6.7	Repair leaking sewer trunk lines	Public Works	Relined leaking sewer trunk line – Granite Street	Sewer line repairs were completed.	The Sewer Department will continue to repair and replace problematic sewer lines as budget is available.
Revised					

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities
7.1 Revised	Check current impairment lists and TMDL status	Public Works	Annually review the current MA Integrated List of Waters	Reviewed the Proposed Massachusetts 2012 Integrated List of Waters and MassDEP TMDL website. Monoosnoc Brook and the North Nashua River are listed as Category 5 waterbodies requiring development of a TMDL for E.Coli (pathogens). A draft pathogen TMDL report is available for the Nashua River Watershed, which includes these water bodies.	The TMDL and impairment status of receiving waters in Leominster’s Urbanized Area will be reevaluated during development of the next NOI for compliance with the reissued General Permit. The City will determine appropriate BMPs given the pollutants of concern and targeted land uses and activities in impaired watersheds.
7.2 Revised	Bring sanitary sewer to 2 streets in 2007	New England Development	Finish in 2007	Completed in September 2007.	BMP complete. Measurable goals for the 2003 General Permit have been met.
7.3 Revised	Street Sweeping Summer/Fall 2007	Public Works	Increase sweeping to 3-4 times/yr. in watershed areas.	BMP complete. See BMP 6.2.	Upon reissuance of the General Permit, prioritize the sweeping schedule to reach watershed areas and other sensitive areas first.

7b. WLA Assessment

At this time, there are no final TMDLs for receiving waters in Leominster’s Urbanized Areas. The City will reevaluate the status of receiving waters once the General Permit is reissued and will consider adding BMPs to address pollutants of concern during development of the next NOI.

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2013 through March 31, 2014)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures **	(\$)	
Total program expenditures since beginning of permit coverage	(\$)	
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	10,000 – LATV & Televised ConCom & City Council
Stormwater management committee established	(y/n)	Y
Stream teams established or supported	(# or y/n)	Y
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	Y
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	4
▪ community participation **	(# or %)	
▪ material collected **	(tons or gal)	
School curricula implemented	(y/n)	Y

Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	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					N/A
▪ Erosion & Sediment Control				X	
▪ Post-Development Stormwater Management				X	

Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	99
Estimated or actual number of outfalls	(#)	300
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	100
Outfalls inspected/screened **	(# or %)	
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	
Illicit discharges identified **	(#)	
Illicit discharges identified (Since beginning of permit coverage)	(#)	
Illicit connections removed **	(#); and (est. gpd)	
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	
% of population on sewer	(%)	
% of population on septic systems	(%)	

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	
Site inspections completed **	(# or %)	
Tickets/Stop work orders issued **	(# or %)	
Fines collected **	(# and \$)	
Complaints/concerns received from public **	(#)	

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	90%
Site inspections (for proper BMP installation & operation) completed **	(# or %)	
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	15
Low-impact development (LID) practices permitted and encouraged	(y/n)	4

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1.5
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	
Qty of structures cleaned **	(#)	1,881
Qty. of storm drain cleaned **	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	1,165 tons
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	
• Disposal cost**	(\$)	
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1 owned
• Vacuum truck(s) owned/leased	(#)	2 owned
• Vacuum trucks specified in contracts	(y/n)	
• % Structures cleaned with clam shells **	(%)	99%
• % Structures cleaned with vector **	(%)	1%

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	2
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	
• Disposal cost**	(\$)	
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	
• Vacuum street sweepers owned/leased	(#)	
• Vacuum street sweepers specified in contracts	(y/n)	
• % Roads swept with rotary brush sweepers **	%	
• % Roads swept with vacuum sweepers **	%	

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

▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	
Integrated Pest Management (IPM) Practices Implemented	(y/n)	y

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized **	(y/n or %)	
Manual control spreaders used **	(y/n or %)	
Zero-velocity spreaders used **	(y/n or %)	
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	
Storage shed(s) in design or under construction	(y/n or #)	
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	
Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	