

Lewiston Storm Water Phase II

Final Annual Report

Permit Year 1 (June 3, 2003 - June 2, 2004)

1. Public Education and Outreach

<u>BMP Name</u>	<u>Responsible Party</u>	<u>Additional Party</u>
BMP#1-1 Install Educational Kiosk	Department of Public Services	Not Applicable

The Lewiston bike path runs along the Androscoggin River, and over trestle bridges. A new kiosk, with a locked plexiglass covering, is planned for near the path to inform bikers of path improvements, usage rules, etc. Stormwater information will be updated on this kiosk twice annually, to minimize yellowing and keep information looking fresh. The information will include actions and the reasoning behind the actions, such as "no littering" (to minimize debris in stormwater and surface water), "stay on path" (to reduce erosion), and "catchbasins are for stormwater only" (to prevent illegal dumping such as paint and oil into catchbasins).

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Actions Completed During Permit Year 1

Kiosk Design	<u>Responsible Party</u> Department of Public Services
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A kiosk design is being discussed for the bike path. Initial materials to be placed in the kiosk were reviewed by stakeholders at the 5/19/2004 meeting. Materials will be printed and the kiosk will be constructed early in Permit Year 2.

<u>BMP Name</u>	<u>Responsible Party</u>	<u>Additional Party</u>
BMP#1-2 Support No Name Pond Association	Department of Planning and Code Enforcement	Not Applicable

Original BMP Text: In the No Name Pond Watershed Management Plan, the City Council approved workshops to be held in conjunction with the No Name Pond Collaborators Group, No Name Pond Watershed Management Association (NNPWMA), MDEP, NRCS, and City staff. Although the classes may be held more often, stormwater topics, such as vegetated buffers, and erosion control for camp road improvements, will be included in the class at least once per year.

This BMP has been modified from the original Plan to account for all activities the City completes in support of the No Name Pond Watershed Management Plan (not just workshops).

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

No Name Pond Activities Permit Year 1	<u>Responsible Party</u> Department of Planning and Code Enforcement
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The following summarizes the activities completed by the City of Lewiston in support of the No Name Pond Watershed Plan:

1. Public Education and Outreach

Assistance with Quarterly Newsletter: The No Name Pond Watershed Management Association publishes a newsletter on a quarterly basis to promote preservation of No Name Pond. The City of Lewiston provides postage for the quarterly mailings.

Contract for Annual Report of Volunteer Monitoring: The City of Lewiston pays the contract for Mr. Scott Williams to summarize data collected and prepare the annual monitoring report for No Name Pond.

Septic Survey of No Name Pond Properties: The City of Lewiston has hired Summit Environmental to complete a survey of septic systems for properties that are in the No Name Pond Watershed. The survey will identify failed septic systems, or properties that have no septic systems and will provide information on how the properties can repair or replace their septic systems. The survey will be completed in Permit Year 2.

The City may provide matching funds for a 319 grant that is being pursued by No Name Pond to address erosion issues.

AVSWCD completed a demonstration of the frontrunner grader equipment on a No Name Pond road in June.

<u>BMP Name</u> BMP#1-3 Distribute Educational Information	<u>Responsible Party</u> Department of Public Services	<u>Additional Party</u> Department of Development/Division of Planning
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Educational information might include: The Watershed Management Plan, brochures on phosphorus control, vegetative buffers, septic maintenance, alternative lawn, gardening, and car washing techniques and products, such as the use of phosphate free products, wash vehicles on the lawn, etc, information regarding shoreland zoning, the Natural Resource Protection Act, and other relevant state and/or Federal regulations. Distribution may be by the City website, the NNPWMA website, newsletter, posters, classes and/or regular watershed status reports to Lewiston's Planning Board and the NNPWMA. By the end of Permit Year 2, distribution of educational information will be expanded to residents of the No Name Brook, which travels from No Name Pond to the Sabattus River, and is listed as an impaired waterbody by the state.

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

Responsible Party
Department of Public Services

Permit Year 1 Activities

The following activities have been completed during Permit Year 1 for this BMP:

Development of a General Public Education Brochure: A general brochure designed to raise awareness of storm water issues was prepared for distribution via the following avenues: the City website, the kiosk at Railroad Park (see BMP 1-1), the Public Services/Public Works Department, and City Hall. The brochure was reviewed by the Lewiston Stakeholder Group at the May 19, 2004 Stakeholder Meeting and comments were addressed. The brochure will be translated into French, Spanish, and Somali for distribution during Permit Year 2.

Contribution to Mass Media Campaign: The MDEP focus groups held in the summer of 2003 identified, "most individuals lack basic knowledge about where storm water goes and so storm water is not a concern for them. They must first be aware of the issue. This suggests that a comprehensive mass communications effort is necessary before grass roots efforts are likely to have much of an impact." Based on this finding, the MDEP coordinated an effort to

1. Public Education and Outreach

develop a statewide education program aimed at raising awareness about storm water issues. All 28 regulated municipalities were asked to contribute a Mass Media Campaign. The City of Lewiston contributed \$4,450 to the MDEP's Mass Media Campaign. The contribution will be used to broadcast statewide media messages using radio, television and newspaper.

Mass Media Planning Meetings: The City of Lewiston's storm water consultant (Aquarion Engineering Services) and Mr. Michael LePage (City of Lewiston Project Engineer) participate in the planning meetings for the mass media messages hosted by MDEP. Mr. LePage and Ms. Rabasca have participated in three meetings this permit year: March 16, 2004, April 13, 2004, and May 10, 2005. Information from these meetings was distributed to Lewiston stakeholders at the stakeholder meeting held May 19, 2004.

<u>BMP Name</u>	<u>Responsible Party</u>	<u>Additional Party</u>
BMP#1-4 Pooper-Scooper Ordinance	Department of Public Services	Police Department

Lewiston currently has a pooper-scooper ordinance, requiring pet owners to properly dispose of pet waste.

This BMP is being modified to remove the Plan's original component of conducting a review of the effectiveness of the ordinance in the first Permit Year. In place of this activity, a fact sheet will be generated describing the ordinance and the negative impacts pet waste has on water bodies. This fact sheet will be distributed to individuals when they purchase their dog licenses. This work will be completed during Permit Year 2.

Year 1	Year 2	Year 3	Year 4	Year 5
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

	<u>Responsible Party</u>
Modified BMP	Department of Public Services

This BMP was modified to remove the component of conducting a review of the effectiveness of the ordinance. In place of this activity, a fact sheet will be generated describing the ordinance and the negative impacts pet waste has on water bodies. This fact sheet will be distributed to individuals when they purchase their dog licenses. The work will be completed during Permit, Year 2.

<u>BMP Name</u>	<u>Responsible Party</u>	<u>Additional Party</u>
BMP#1-5 Education to Businesses	Department of Public Services	Not Applicable

The Department of Public Services will contact industrial, commercial, institutional, and governmental establishments in the City twice annually regarding stormwater management. In the fall, contact will likely consist of a brochure or fact sheet requesting that the establishment cover any salt or sand piles, use appropriate amounts of salt and sand (i.e. no over-use), and keep trash receptacles well maintained, including closing the dumpster lid to keep stormwater out. In the spring, contact will likely consist of a brochure or fact sheet requesting that establishments consider sweeping large parking lots, maintain trash receptacles, inspect private catch basins for excess debris or poor conditions, and prevent illegal dumping by employees. Both spring and fall communications will be available in French, Spanish, and Somali in conjunction with the City's Limited English Proficiency Plan (LEP), and will include links to State and EPA webpages for an explanation of "why" these practices benefit surface water quality. The City will also consider conducting a review/survey of random businesses to

1. Public Education and Outreach

determine the effectiveness of the brochures.

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

Permit Year 1 Brochure Responsible Party
Department of Public Services

The City of Lewiston stakeholders discussed preparation of an initial brochure targeting carpet cleaners to inform them of proper procedures to use in discharging trucks (not into the storm drain system).

- The City will prepare the brochure and distribute it early in Permit Year 2.

<u>BMP Name</u>	<u>Responsible Party</u>	<u>Additional Party</u>
BMP#1-6 Add Stormwater Information to City Website	Department of Public Services	Management Information Services

Information and links to websites giving additional educational information about stormwater quality will also be added to the website, including steps intended to reduce stormwater pollution from existing and new development. Information will be available in French, Spanish, and Somoli in conjunction with the City's Limited English Proficiency Plan (LEP).

- This BMP is being modified to include the development of a webpage dedicated to storm water protection in addition to posting materials and links.

Year 1	Year 2	Year 3	Year 4	Year 5
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Actions Completed During Permit Year 1

Permit Year 1 Additions to Website Responsible Party
Department of Public Services

The City of Lewiston will be developing a Storm Water Awareness web page for their website, and will add public education material to the website as it is generated. Materials that are currently planned for the website include: An introduction to Storm Water, the General Public Education Brochure, and the Five Year Storm Water Management Plan.

<u>BMP Name</u>	<u>Responsible Party</u>	<u>Additional Party</u>
BMP#1-7 Additional Items Completed	Department of Public Services	Various Parties

This BMP tracks items that were not originally part of the Lewiston Storm Water Management Plan, but were completed.

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

Permit Year 1 Activities Responsible Party
Department of Public Services

The following additional activities were not part of the Lewiston Plan, but were completed

2. Public Participation/Involvement

during Permit Year 1:

- 10/1/2003 Leaf Collection: The City of Lewiston collects leaves for composting in October and November each year. Curbside collection is offered. This activity is publicized on the City Website, and through the Public Works Quarterly Calendar.
- 3/1/2004 Article in Lewiston DPW/DPS Newsletter: The Department of Public Services published the "In Our Back Yard" Article from the MDEP as a follow up to the MDEP survey on storm water. The article was titled, "The Real Truth About Storm Drains". The monthly newsletter is distributed to all DPW/DPS employees, and to the City Council.
- 4/1/2004 MDEP Surveys: MDEP developed a survey to assess the general awareness of storm water as a potential water quality issue. MDEP requested that all 28 regulated MS4 communities distribute the survey to municipal employees and return the completed surveys to MDEP for tabulation. The City of Lewiston distributed 360 surveys to municipal employees at City Hall, and in the following departments: public works, public services, fire, police. 150 surveys were completed and returned to MDEP for tabulation.
- 4/1/2004 Spring Cleanup: Spring Cleanup occurred during the month of April during Permit Year 1. The City offers curb side removal of bulk waste items such as wood, brush, furniture, carpet, and appliances. 527.88 tons of waste material was collected and properly disposed of under this program in 2004. Since this program began, the City has noticed a decrease in illegal dumping of these items. This activity is publicized through the City Website and the Public Works Quarterly Calendar.
- 4/24/2004 Community Clean Up and Celebration: A "Community Clean Up and Celebration", sponsored by Project Neighborhood, was held on Saturday, April 24, 2003.
- Cleaning supplies were distributed to volunteer participants, who after being assigned to a team leader, cleaned up a green space and/or sidewalk. Free t-shirts were given to the first 50 volunteers.
- 6/1/2004 Source to the Sea Sponsorship: The City of Lewiston is cooperating with the City of Auburn to sponsor a speaker for the Lewiston/Auburn stop on the Source to the Sea Trek. The trek is organized by the Androscoggin River Watershed Council each year. Planning and coordination activities for this event took place during Permit Year 1. The trek will occur during Permit Year 2.
- 5/2/2004 Lake Auburn Protection: The City of Lewiston holds a seat on the Board of Directors for the Lake Auburn Watershed Protection Commission and as such participates in protection of the Lake Auburn Watershed from storm water pollution. The City has participated in the following activities in this respect: land purchase for riparian zone preservation, implementation of erosion control measures around the lake, development and implementation of a Forestry Management Plan for the Conservation Lands around the lake, and development and implementation of a Watershed Management Plan for the Lake. In addition, a brochure was sent to all 9,000 Lewiston customers describing the watershed and protection of the water body.
- AVEC Program: The City of Lewiston Education Department participates in the Auburn Land Lab/Androscoggin Valley Educational Collaborative (AVEC). Gifted high school students attend and participate in a special curriculum monthly at the Auburn Land Lab. This year the students focused on storm water as a learning area. 32 students from Auburn, Lewiston and Sabattus participate in the program. The students completed surveys of Auburn residents to assess their awareness of storm water issues, and compared the results to the Maine Department of Environmental Protection survey completed by the 28 MS4 regulated communities. The students have conducted GPS surveying and water quality sampling and analysis to broaden their understanding of storm water issues. The students also

2. Public Participation/Involvement

participated in a Storm Water Fair (April 30, 2004) by preparing educational materials for younger students (to be presented to the students in the morning of the fair), and preparing educational displays of their activities throughout the past school year.

<u>BMP Name</u>	<u>Responsible Party</u>	<u>Additional Party</u>
BMP#2-1 Comply with State Public Notification Guidelines	City Clerk	Various City Departments

The City is already meeting the minimum requirements for this control measure by complying with the state public notification guidelines. The City will continue to comply with these guidelines.

Year 1	Year 2	Year 3	Year 4	Year 5
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Actions Completed During Permit Year 1

None invoked Permit Year 1	<u>Responsible Party</u> City Clerk
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No Public Notice Requirements were invoked during Permit Year 1 Activities.

<u>BMP Name</u>	<u>Responsible Party</u>	<u>Additional Party</u>
BMP#2-2 Household Hazardous Waste Collection Day	Department of Public Services	Not Applicable

The City will hold a hazardous waste collection day once a year for residents to drop off hazardous waste for proper disposal. The Household Hazardous Waste Day is a joint effort between Lewiston and Auburn. The City will monitor the number of people who participate, before and after promotional materials, to determine what the beneficial methods are for the collection program to be successful.

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

HHHW Day Permit Year 1	<u>Responsible Party</u> Department of Public Services
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Household hazardous waste was collected from the public on Saturday, September 27, 2003. The program is sponsored jointly by the Androscoggin Valley Council of Governments, the City of Lewiston, and the City of Auburn. The following methods were used to publicize the event:

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- ~8,000 brochures were distributed by AVCOG advertising the event.
- ~An announcement was printed in the July-September 2003 Public Works Quarterly Calendar which is distributed to the public.
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- 93 Lewiston Residents brought in 895 gallons of hazardous materials during this program.
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<u>BMP Name</u>	<u>Responsible Party</u>	<u>Additional Party</u>
BMP#2-3 Volunteer Monitoring Program at No Name Pond	Department of Planning and Code Enforcement	No Name Pond Watershed Management Association

2. Public Participation/Involvement

The No Name Watershed Management Plan (adopted July 2001) includes a strategy of establishing a citizen-based water-quality monitoring program, with consistent quality control and program evaluation. Such a program will be very useful in helping residents gain an understanding of their impacts on the water quality, as well as giving them a personal stake in the water body - two of the goals of Control Measure 2 - Public Participation.

Year 1	Year 2	Year 3	Year 4	Year 5
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Actions Completed During Permit Year 1

	<u>Responsible Party</u>
Permit Year 1 Support	Department of Planning and Code Enforcement

The volunteer monitoring program for No Name Pond is conducted in accordance with the No Name Pond Watershed Management Plan. The City of Lewiston assists with this program through paying for the annual monitoring report as described in BMP 1-2.

<u>BMP Name</u> BMP#2-4 Publicize Stormwater Hotline	<u>Responsible Party</u> Department of Public Services	<u>Additional Party</u> Department of Public Works
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Currently, residents with stormwater complaints may call City Hall or the Department of Public Works. For this BMP, a hotline will be publicized and maintained for residents of both separated and combined sewer system neighborhoods to register comments and complaints with the City. As combined sewer systems are separated (underway across the City) or updated, residents will be able to use the familiar hotline to contact the City. Publicity for the hotline and hotline recorded message will be in several languages to encourage minority populations to register comments and complaints. All public complaints and City responses will be logged into the ASIST database.

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

	<u>Responsible Party</u>
Hotline Planning	Department of Public Services

The City of Lewiston will use the Public Works dispatch number as a hotline. This number will be used as the hotline for citizen complaints for illicit discharges also. The phone number has been added to a general public education brochure (see BMP 1-3) and will be added to other publicity as appropriate on public education and outreach materials as appropriate.

Complaints received by this number will be logged into the work order system already used by the Public Works Department to address other citizen complaints and issues.

<u>BMP Name</u> BMP#2-5 Accept Public Comment of Stormwater Plan	<u>Responsible Party</u> Department of Public Services	<u>Additional Party</u> Department of Public Works
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The state encourages Lewiston to accept public comment on the stormwater management plan. During the first permit year, a presentation on the Stormwater Program Management Plan will be made at a public meeting of the City Council. The public will have the opportunity to comment at that time, or to submit written comments. Any necessary modifications/additions will be addressed at that

3. Illicit Discharge Detection and Elimination

time. In addition, a public presentation will be made of the Plan in the final year of the permit term, so that the public can comment on programs that should be continued or discontinued for the next permit term. At the presentation, the City will encourage the public to form volunteer groups that will maintain local streams or hold volunteer cleanup days.

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

Responsible Party

Preparation for Public Meeting

Department of Public Services

The City Council Meeting will be held early during Permit Year 2. Planning for this meeting occurred during Permit Year 1. It should be noted that the City's Storm Water Management Plan will be posted on the website for public information.

BMP Name

BMP#3-1 Develop and Present Draft Storm Sewer Ordinance

Responsible Party

Department of Public Services

Additional Party

Not Applicable

The City will review existing ordinances and determine the needs for additional authority. If required, a storm sewer ordinance prohibiting illicit connections will be drafted. The City Council must approve the draft storm sewer ordinance for it to take effect. As such, the draft ordinance will be presented to the City Council in the spring of 2005, and each spring thereafter until it is approved.

Year 1	Year 2	Year 3	Year 4	Year 5
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

Responsible Party

Permit Year 1 Activities

Department of Public Services

The Lewiston Legal Counsel, Mr. Martin Eisenstein of Brann & Isaacson reviewed and commented on the Sample Ordinance prepared by Jim Katsiaticas of Maine Municipal Association (MMA). Comments included

- 1. A recommendation to include an illicit connection definition, and a prohibition of illicit connections, and
- 2. Addition of a section titled, "ultimate liability of discharger" which states that the ordinance sets minimum standards, but that compliance does not guarantee that no pollution will occur, and that the municipality assumes no liability, and
- 3. adding a requirement for a discharger to monitor (currently the ordinance says the enforcement authority may monitor a discharge).

In Lewiston, prohibition of illicit discharges will be developed through a policy referenced by Article II Sewers & Drains in Chapter 74 of the Lewiston Code of Ordinances. The MMA Sample Ordinance will be the basis for the Lewiston Policy.

BMP Name

BMP#3-2 Prioritize Watersheds, Waterbodies, and Streams

Responsible Party

Department of Public Services

Additional Party

Not Applicable

3. Illicit Discharge Detection and Elimination

The City will review its watersheds, waterbodies, and streams to determine "sensitive areas". Sensitive areas will include the Androscoggin River, Jepson Brook, No Name Pond Brook and Stetson Brook, which are located on the 303(d) list of impaired waters for Lewiston. These will also include swimming beaches, recreational sites, wellhead protection areas, or surface waters of public concern. Outfalls in higher priority watersheds, waterbodies, and streams will be screened first (BMP #3-3). Similar to BMPs 1-2, 1-3, and 2-3, appropriate BMP(s) will be added to improve the water quality of the state listed impaired waterbodies by the end of Permit Year 3.

Year 1	Year 2	Year 3	Year 4	Year 5
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Actions Completed During Permit Year 1

No Work Required Permit Year 1	<u>Responsible Party</u> Department of Public Services
No work is required to be completed during Permit Year 1.	

<u>BMP Name</u>	<u>Responsible Party</u>	<u>Additional Party</u>
BMP#3-3 Outfall Dry Weather Screening Program	City Of Lewiston Maine	Not Applicable

Dry weather screening of outfalls is a relatively easy and efficient way to search for illicit discharges. The screening identifies suspect outfalls based on suspicious odors, colors, or constituents in discharge. The suspect outfalls are then prioritized for further investigation so the source of the discharge can be found. In addition, dry weather screening helps to identify and map the outfalls, also a requirement of the permit. Lewiston will screen each stormwater outfall greater than 18" during the permit term. As smaller outfalls are located, they too will be screened, but the program will not focus on the smaller outfalls. The City will use GIS equipment to get accurate information for the GPS mapping. Note that further dry weather screening (i.e. a second round) is recommended for future permit terms, as one visit to each outfall may not catch all illicit connections, and because conditions at the outfalls may change.

Year 1	Year 2	Year 3	Year 4	Year 5
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Actions Completed During Permit Year 1

Permit Year 1 Dry Weather Screening	<u>Responsible Party</u> Department of Public Services
Although no dry weather screening of outfalls for illicit discharges was required to be completed during Permit Year 1, the City of Lewiston did complete some inspections during a dry weather (no precipitation for 3 days) mapping event in the Canal Area (see BMP 3-5). The condition and observations of flow were noted during the mapping event. No evidence of illicit discharges was obtained during this mapping event. Future mapping events will include notations of any evidence of illicit discharges.	

<u>BMP Name</u>	<u>Responsible Party</u>	<u>Additional Party</u>
BMP#3-4 Detection and Elimination of Illicit Discharges	Department of Public Services	Not Applicable

Lewiston has developed a system for detection and elimination of illicit discharges. City employees look for and notify supervisors of any illicit connections or illegal dumping found, and also use the closed circuit television "trailer" and other regularly scheduled inspections to look for illicit connections

3. Illicit Discharge Detection and Elimination

in the system. Once an illicit connection is found, the property owner is contacted for removal. Illegal dumping sites are cleaned up with the assistance of the fire department (if hazardous).

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

Permit Year 1 IDDE Responsible Party
Department of Public Services

During the City's CSO program, illicit discharges are identified and corrected before separation of sanitary and storm sewers occurs. The City purchased smoke testing apparatus and smoke tested 31,000 lineal feet of sewer prior to separation this year.

In addition, during the CSO program, the City performs televising of selected lines to identify connections in selected problem areas prior to construction. During Permit Year 1, 1,500 linear feet of sewer was televised prior to separation.

These activities ensure that laterals are correctly connected to either the storm drain or the sanitary sewer during construction, thus minimizing the potential for illicit connections in the storm drain system.

Specific illicit discharges identified during Permit Year 1 are summarized as follows:

Water Street Outfall: Two connections into a CSO overflow were identified on Lincoln Street to be bathroom connections. These laterals were reconnected to the main interceptor line.

EZ Rental: The facility spilled oil in the parking lot. The oil was transported into a catchbasin. The MDEP was on site for the clean up. The owner has been instructed to place a trap in the catchbasin, regularly clean the catchbasin, and develop a Spill Prevention Control and Countermeasure Plan.

A complaint was logged by a citizen relating to a 3x7 box culvert on Gully Brook that is missing a head wall. This issue is being addressed.

<u>BMP Name</u>	<u>Responsible Party</u>	<u>Additional Party</u>
BMP#3-5 Map Outfalls and Receiving Waters	Department of Public Services	Department of GIS

The City of Lewiston is constructing a Geographic Information System (GIS) electronic map of the storm sewer system. System attributes include all known outfalls, pipe size and material, flow direction, manholes, and catch basins. Receiving waters are shown. This map will be updated to include known outfalls and newly GPS located outfalls. It will also be updated to incorporate changes determined during future illicit connection, dry weather field screening, and combined sewer separation projects

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

Permit Year 1 Mapping Responsible Party
Department of Public Services

The City of Lewiston began GIS mapping of its infrastructure and systems in 1996. The

4. Construction Site Runoff Control

mapping is available to the public on its internet site through Internet/Intranet Mapping Services, an interactive program that allows internet users access to the mapped information.

The City has completed mapping of most of its storm drain system in Permit Year 1. Most catch basin locations were located from an aerial survey. The storm drain lines were imported to the GIS system from existing paper maps. The Canal Area was mapped in the Fall of 2003 using traditional survey equipment (Leica TCR 305 total station) and was imported into the GIS map for the City. This mapping event located approximately 80 outfalls in the Canal Area. The City of Lewiston estimates they have a total of 370 outfalls.

Subsequent mapping work to be completed includes confirmation of the catch basin, outfall and storm drain lines that were imported from the aerial photographs and paper maps. This work will be completed in conjunction with construction projects as they occur. In addition, future work includes development of a numbering system for outfalls and correlating the outfalls to a database for inspection information.

BMP Name

BMP#4-1 Rely on MCGP for Construction Site Runoff Controls

Responsible Party

Department of Planning and Code Enforcement

Additional Party

Not Applicable

The City of Lewiston will rely on the MCGP for compliance with construction site runoff for disturbed sites greater than one acre. The City will update their building permit to include a method for notifying construction site developers and operators of the requirements for registration under the MCGP for the discharge of stormwater associated with construction activities disturbing more than one acre.

Year 1

Year 2

Year 3

Year 4

Year 5

Actions Completed During Permit Year 1

Responsible Party

Building Permit Modified

Department of Planning and Code Enforcement

The City of Lewiston has modified their building permit application form to include a question to trigger awareness of the MCGP. The application asks if the applicant will disturb one acre or more of soil, and informs them they are subject to the MCGP if they do. The application states they should contact the MDEP to obtain a copy of the MCGP, and states they will need to prepare an Erosion and Sedimentation Control Plan, and submit a Notice of Intent to MDEP. The modified application will be used beginning early in Permit Year 2.

In addition, the City has modified their Design Development Standards Document to include the MCGP requirement. This document is used and distributed by all City employees to clarify the requirements for submitting development projects to the development review process.

BMP Name

BMP#4-2 Receipt and Consideration of Public Comment

Responsible Party

Department of Planning and Code Enforcement

Additional Party

Code Enforcement

Site operators are required to notify abutters as part of the plan approval process. The public has the opportunity to comment on projects that go through Development Review. Residents may also voice concerns through a phone call to the Department of Public Works or City Hall. This procedure will be

4. Construction Site Runoff Control

reviewed and updated, as necessary, to address construction sites disturbing more than one acre in conjunction with the stormwater and combined sewer hotline (BMP #2-4).

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

	<u>Responsible Party</u>
Permit Year 1 Planning Board Activities	Department of Planning and Code Enforcement

During Permit Year 1, approximately 31 projects went through the Development Review Process. Some of the projects that go through Development Review are less than one acre. A portion of the Development Review Projects require submittal of a Sedimentation and Erosion Control Plan (but not all, approximately 20 projects were for major buildings and subdivisions, and required Sedimentation and Erosion Control Plans). All abutters were notified of these projects as required by the City, and were invited to comment on the activities presented to the Board.

Review of notification and comment procedures showed that no revisions to the procedures are necessary this permit year.

<u>BMP Name</u> BMP#4-3 Construction Site Inspection	<u>Responsible Party</u> Department of Planning and Code Enforcement	<u>Additional Party</u> Code Enforcement
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Currently, the City conducts routine site inspections of construction sites prior to, during, and after construction. The Site operator is also required to conduct regular inspections to ensure erosion controls are functioning properly. Erosion and sediment controls, such as silt fences and hay bales, and construction material storage, such as sand piles and cement, will be added to the list of items City site inspectors investigate during a routine site inspection of construction sites disturbing more than one acre. To coordinate this work, the City will prepare a checklist of stormwater issues and potential water quality impacts for developers and contractors, including proper installation, inspection and sequencing of erosion and sediment controls, and management of construction materials and construction wastes, including keeping out of surface water bodies, in accordance with the MCGP. In this way, developers and contractors would be aware of the things for which site inspectors will be looking.

Year 1	Year 2	Year 3	Year 4	Year 5
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

	<u>Responsible Party</u>
No Work Required Permit Year 1	Department of Planning and Code Enforcement

No work is required to be completed for this BMP during Permit Year 1.

<u>BMP Name</u> BMP#5-1 Runoff Controls for Projects Disturbing More Than One Acre	<u>Responsible Party</u> Department of Public Services	<u>Additional Party</u> Code Enforcement
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The Phase II regulations require stormwater runoff controls in new developments and re-development

5. Post-Construction Runoff Control

projects disturbing more than one acre of land. Lewiston recently adopted an expansion of review authority to cover stormwater controls. The City's current ordinances and authority will be reviewed to determine if they meet the intent of Phase II, including requirements for long-term operation and maintenance of installed BMPs. If necessary, the ordinance will be revised to ensure long-term operation and maintenance of BMPs. The ordinance will also reference an appropriate, Maine specific, BMP manual.

Year 1	Year 2	Year 3	Year 4	Year 5
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

Responsible Party

No Work Required Permit Year 1

Department of Public Services

Although no work was required to be completed for this BMP during Permit Year 1, the City of Lewiston completed the following:

The City provided Mr. David Ladd (MDEP) with copies of the relevant ordinances related to Post Construction Runoff Control (From Appendix A of the Zoning and Land Use Code, Article XIII Development Review and Standards, and Article XII Performance Standards).

Mr. Ladd gave verbal approval that these modifications fulfill the requirements of the Post Construction Minimum Control Measure for this General Permit. The City is awaiting written approval from MDEP.

BMP Name

BMP#5-2 BMP Manual for Use by Planners and Developers

Responsible Party

Department of Planning and Code Enforcement

Additional Party

Code Enforcement

The City currently recommends that planners and developers use MDEP's standards, as described in the recently updated MDEP publication "Maine Erosion and Sediment Control Handbook for Construction: Best Management Practices" (March 2003). This publication should be reviewed to ensure that it is specific as to construction and long-term maintenance of BMPs, for instance describing the proper way to install a silt fence, appropriate locations of detention ponds, etc. Site inspectors and plan reviewers should each receive a copy of the applicable sections of the selected BMP manual. Examples of other appropriate manuals include the US EPA's Menu of BMPs (www.epa.gov/npdes/menuofbmps).

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Actions Completed During Permit Year 1

Responsible Party

BMP Manual Selected

Department of Planning and Code Enforcement

The "Maine Erosion and Sediment Control Handbook for Construction: Best Management Practices" (March 2003) has been selected. The City Ordinance referencing this manual will need to be updated to refer to the "current version" of the Handbook, or the Ordinance will need to be updated to reflect revised versions as they are published.

In addition, the City has modified their Design Development Standards Document to include the requirement to use the BMP Handbook. The Design Development Standards are used

6. Pollution Prevention/Good Housekeeping

by and distributed by all City employees to clarify the requirements for submitting development projects to the development review process.

<u>BMP Name</u> BMP#6-1 Catchbasin Cleaning Program	<u>Responsible Party</u> Department of Public Works	<u>Additional Party</u> Not Applicable
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Lewiston's catchbasins are cleaned on a rotating schedule, with high priority catchbasins, near ponds or other environmental resources, cleaned annually. Catchbasins tending to fill up more frequently are also cleaned more regularly than others. The City will continue this program. In addition, the City plans to continue to keep good records of when catchbasins were cleaned and how full they were, to better schedule regular cleaning. Information on catchbasin cleaning will be logged into the Asist database.

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

Permit Year 1 CB Cleaning	<u>Responsible Party</u> Department of Public Works
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The City tracks catch basin cleaning from April through November for the entire City (inside and outside the urbanized area). For the time period April 2003 to November 2003, 1718 Catch basins were cleaned. 319 cubic yards of material were removed from the catch basins during this cleaning.

The current listing of catch basin cleaning priorities is dated 1994. The listing will be updated using 2003 and 2004 data collected to ensure: (1) the listing contains all catch basins in the urbanized area, not just CSO catch basins, and (2) that the priorities are still appropriate (e.g., that catch basins with higher accumulations of sediment have higher priority than those with less sediment).

The City purchased a new catch basin vacuum truck to replace an older unreliable unit. This \$150,000 piece of equipment is expected to be delivered in July 2004.

<u>BMP Name</u> BMP#6-2 Street Sweeping Program	<u>Responsible Party</u> Department of Public Works	<u>Additional Party</u> Not Applicable
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The City currently sweeps streets and publicly owned parking lots continually from spring to winter until freezing conditions prevent sweeping. In the spring, sweeping occurs as soon as possible after winter snowmelt, generally finishing sweeping of all streets by the end of July. Throughout the rest of the year, streets are swept on an as-needed basis, with some streets swept two or three times per week. The current program meets the Phase II requirements, and will continue.

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

Permit Year 1 Street Sweeping	<u>Responsible Party</u> Department of Public Works
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All public roads and parking areas are swept once per year by the end of June. From July to October, the downtown areas are swept weekly at night. Approximately 3,650 cubic yards of

6. Pollution Prevention/Good Housekeeping

material was removed from streets through street sweeping during Permit Year 1 (Based on data in the Lewiston CSO report for the summer of 2003).

- New Street Sweeper

The City of Lewiston purchased a new, efficient street sweeper in April 2003.

<u>BMP Name</u> BMP#6-3 Disposal of CB Cleaning and Street Sweeping Residuals	<u>Responsible Party</u> Department of Public Works	<u>Additional Party</u> Not Applicable
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The residuals generated from street sweeping and catchbasin cleaning are currently transported to the City's landfill for processing, decanting, and proper disposal. The City will continue to follow these standard operating procedures (SOPs).

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

Permit Year 1 Activities	<u>Responsible Party</u> Department of Public Works
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Catch basin cleaning residuals were managed in accordance with the City's SOPs.

<u>BMP Name</u> BMP#6-4 Minimize Sand Usage and Maintain Cover over Salt Storage Area	<u>Responsible Party</u> Department of Public Works	<u>Additional Party</u> Not Applicable
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Lewiston currently minimizes the use of salt and sand on winter streets by calibrating the sanders annually. The City will continue to follow this policy. In addition, the City maintains a covered salt shed for storage of road salt. The City will also monitor industry standards and practices to evaluate new technologies that may cost-effectively minimize salt and sand usage and associated environmental impact.

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

Permit Year 1 Activity	<u>Responsible Party</u> Department of Public Works
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Calibration of the salt/sand trucks is completed every fall. The salt/sand trucks are calibrated to control the amount of sand or salt spread on streets depending upon the weather conditions during each individual storm. The City applies sand or salt to streets as recommended by the Maine Department of Transportation and the Salt Institute. Depending upon the weather conditions and type of storm this amount can vary from 100 to 800 pounds of salt or sand per lane mile of road.

- The City of Lewiston uses an aggressive salt priority program, where straight salt is used on many of the City's streets instead of a sand/salt mix. This program greatly reduced the amount of sand placed upon City streets during the winter. By doing this, the City:

- Saved resources by limiting the amount of sand needed. (Only 3,000 cubic yards of

6. Pollution Prevention/Good Housekeeping

sand was used during the winter of 2003-2004 as opposed to 12,000 - 14,000 cubic yards in past years)

- Significantly reduced the amount of sand on the streets needing to be swept up in the spring

- Significantly reduced the amount of sand, which was transported to the City's storm drain system reducing the amount of material needing to be cleaned out of storm water catch basins and structures.

- Significantly reducing the amount of sand transported to surrounding streams, waterbodies and the environment

BMP Name

BMP#6-5 Snow Disposal

Responsible Party

Department of Public Works

Additional Party

Not Applicable

The City currently disposes of snow in a MDEP approved and licensed snow-dumping area on River Road (approved July 18, 2002 Permit number BEP LK/L20867 AN/L20867 BN). The area is enclosed by a dike and cleaned up each year after snow melts entirely.

Year 1

Year 2

Year 3

Year 4

Year 5

Actions Completed During Permit Year 1

Responsible Party

Permit Year 1 Activity

Department of Public Works

The snow dump area consists of a detention pond with a controlled outlet device. The snow is dumped directly into the detention pond as it is removed from city streets. After the snow has melted, the detention pond is cleaned of litter and debris that had accumulated from the collected snow. This practice prevents the debris and sediments from discharging into the Androscoggin River. During Permit Year 1, the snow was completely melted in August 2003. The area was cleaned as soon as the snow melted.

BMP Name

BMP#6-6 Inspect Stormwater Structures

Responsible Party

City Of Lewiston Maine

Additional Party

Not Applicable

The City will develop a program to inspect stormwater structures, such as catch basins, trash racks, pipes, box culverts and concrete and outfalls. The program will likely be incorporated into existing inspection programs.

Year 1

Year 2

Year 3

Year 4

Year 5

Actions Completed During Permit Year 1

Responsible Party

No Work Required Permit Year 1

City Of Lewiston Maine

Although no work was required to be completed for this BMP during Permit Year 1, the City of Lewiston does have existing inspection and maintenance systems in place. These existing programs are discussed as follows:

- Catch Basin Cleaning: As discussed in BMP 6-1, the City has an existing catch basin cleaning program that will be re-evaluated as part of this Storm Water Management Plan during Permit Year 2.

6. Pollution Prevention/Good Housekeeping

- Maintenance schedule for major structures: Storm water structures at Jepson Brook and Hart Brook are inspected and maintained on a regular basis. Condition of the structures is noted and any simple repairs or maintenance is completed at the time of inspection. Moderate and major repairs are reported back to the office and are completed when time and funding allows.
- The City of Lewiston completes inspections of outfalls during brush cutting activities each spring and fall. Repairs and maintenance items are reported back to the office and are typically completed relatively quickly (within a week or two). These repairs are summarized in monthly reports either as outstanding items to be completed or as completed items.
- During Permit Year 2, these programs will be reviewed in more detail to ensure inspections of storm water structures are completed in accordance with the General Permit Requirements

<u>BMP Name</u> BMP#6-7 Employee Education Program	<u>Responsible Party</u> Department of Public Works	<u>Additional Party</u> Department of Public Services
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The City currently provides training for employees. This program includes topics relevant to stormwater quality, such as looking for illicit connections, hazardous material handling and storage, equipment maintenance and repair, etc., for public works employees. Materials developed within the City and materials from the State are used during training. Occasionally outside groups will come in to do the training, such as MEDOT or MTA. The City should look for opportunities to collaborate with neighboring communities, such as Auburn or Sabattus, to reduce training costs. In addition, the City employee newsletter will be used to further educate public employees about stormwater issues.

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

- | | |
|------------------------|---------------------------------|
| | <u>Responsible Party</u> |
| Permit Year 1 Activity | Department of Public Works |
- The City of Lewiston hired the same consultant employed by the City of Auburn and Town of Sabattus to train employees about storm water issues. The training program will be developed in Permit Year 2, and the training will occur in Permit Year 3.
- Additional training that occurred during Permit Year 1 is documented in the Employee Training portion of the Asist Database.
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<u>BMP Name</u> BMP#6-8 Hazardous Material Storage and Disposal Program	<u>Responsible Party</u> Department of Public Services	<u>Additional Party</u> Department of Public Works, Fire, and Recreation
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Lewiston recently completed a hazardous material audit and spill control plan. All hazardous material is clearly labeled, and stored in a fenced off area away from high-traffic paths. The amount of hazardous material stored is minimized. In addition, the City collects used waste oil from the public and contracts with an outside company (Clean Harbors) to dispose of municipally generated and public drop-off oil. This BMP will be to verify the plan is posted and waste oil management program remains in place.

6. Pollution Prevention/Good Housekeeping

Year 1	Year 2	Year 3	Year 4	Year 5
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Actions Completed During Permit Year 1

Review of BMP recommendations	<u>Responsible Party</u> Department of Public Services
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The Department of Public Services reviewed the audits and recommended BMPs to ensure proper implementation. The following is a summary of the activities that were recommended and have been completed:

- Vehicles and equipment are now stored on paved areas
- Floor drains in the Public Works buildings that previously drained to the storm drain system were closed
- A Spent Fluorescent Lamp storage and lead-acid battery storage area has been created.
-