

**GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER
FROM SMALL MUNICIPAL SEPARATE STORM SEWER
SYSTEMS**

PERMIT YEAR ONE ANNUAL REPORT

SUBMITTED BY:

LEWISTON, AUBURN, SABATTUS STORMWATER WORKING GROUP (LASSWG)

AUGUST 2009

MCM #1: PUBLIC EDUCATION AND OUTREACH
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◆ **Raise Awareness:**

Participation in regional events

1. The LAS Stormwater Working group will sponsor a speaker or program on stormwater issues, at two Androscoggin River Watershed Council (ARWC) public events.

No action for PY 1

2. The LAS Stormwater Working group will participate in annual Androscoggin Valley Council of Government (AVCOG) workshops that pertain to stormwater issues.

No action for PY 1

3. Lewiston Auburn Water Pollution Control Authority (LAWPCA) will continue to offer educational tours of their facilities.

LAWPCA continued to host tours for Bates and University of Southern Maine-Lewiston college students during Permit Year 1. Additionally, LAWPCA hosted the Maine Compost School and provided a facility tour in June 2009. On September 13, 2008, LAWPCA hosted an Open House and about a dozen families came to see the plant and hear more about the Environmental Management System. Each LAWPCA tour includes an explanation of the need to protect stormwater and the interaction between stormwater and the sanitary sewer system in Auburn and Lewiston. Stormwater managers from Lewiston and Auburn participated in one tour.

Continue use of existing materials

1. The LAS Stormwater Working group will contribute to the statewide ad campaign, as requested

LASSWG contributed to the statewide ad campaign. The share of the cost for broadcasting the "Ducky ads" was \$3000. Lewiston paid \$1689.36, Auburn paid \$1096.30 and Sabattus paid \$212.34.

2. The LAS Stormwater Working group will publish an article in the Androscoggin River Watershed Council (ARWC) bi-annual newsletter twice during the permit cycle.

No action for PY 1

3. The LAS Stormwater Working group will distribute, through their respective city/town clerk's office, a "pet waste" brochure to residents getting dog licenses.

LASSWG maintained a supply of pet waste brochures in their

respective city/town offices and requested these also be given to those residents who are licensing their dogs.

4. The Lewiston stormwater manager will maintain the informational poster series displayed in the kiosk in Simard/Payne Memorial Park

The Lewiston stormwater manager developed and displayed in the kiosk in Simard/Payne Memorial Park seasonal posters providing home owner hints to stormwater management. This is not a goal for Auburn or Sabattus.

5. The LAS Stormwater Working group will implement an educational poster series in the city halls of all three cities, with seasonal stormwater information.

This activity did not get initiated in PY 1 in a formal way in the City of Lewiston, but Lewiston continues to post stormwater information in City Hall. Lewiston will formalize a location in PY 2. Auburn has a dedicated tripod in City Hall for a stormwater information poster and Sabattus has a designated location in their Town Hall which is used to post stormwater information and announce up-coming events and workshops.

6. The LAS Stormwater Working group will advertise Androscoggin Valley Soil and Water Conservation District (AVSWCD) workshops

The LAS Stormwater Working group did not receive any requests to advertise Androscoggin Valley Soil and Water Conservation District (AVSWCD) workshops during PY 1.

Work with & support existing partners and seek out new ones

1. During PY 1-5, the City of Lewiston will continue to support the No Name Pond Watershed Association by funding the mailings of newsletters to No Name Pond watershed residents, funding the annual testing and report of the water quality and maintaining the streets and catch basins in the watershed, through its sweeping and catch basin cleaning program. The City of Auburn and the Town of Sabattus will provide similar support with the Taylor Pond Association and the Sabattus Pond Watershed Association, respectively.

Lewiston funded the water sampling contract for No Name Pond and contributed an article to their newsletter regarding the DEP pilot program for Volunteer River Monitoring and facilitated the initiation of the program for No Name Brook. Lewiston Public Works continued to sweep streets and clean catch basins in the No Name Pond watershed. The City of Lewiston stormwater manager gave presentations at the Lewiston High School to three sophomore classes. The curriculum included discussion of impervious surfaces and the presentations tied that into the impacts on stormwater quality and quantity. Also gave a presentation on the work being done in the Hart Brook Watershed and city-wide to the Lewiston Senior Citizens. Met also with the Lots to Gardens group to discuss possibilities of stormwater conservation and re-use in their garden plots.

Auburn invites the Taylor Pond Association to the stakeholder meetings; there was no attendance by Association members in the first permit year.

Sabattus Public Works continued to sweep streets and clean catch basins in the Sabattus Pond Watershed. The town provided the SPWP and the Sabattus Dam Commission with \$1500 each for monitoring, education and outreach efforts. Additionally, the town has supported SPWP by providing meeting space for monthly meetings at the town office and putting a link to SPWP's website on the town's website.

2. During PY 2, the LAS Stormwater Working group will investigate a partnership with the Androscoggin Valley Soil and Water Conservation District to help deliver stormwater information through yardscaping classes, promoting the purchase of rain barrels, and other workshops.

No action for PY 1

3. Continue partnerships with AVCOG, ARWC and AVSWCD

The City of Auburn, LAWPCA and the Auburn Water and Sewage District have partnered on a water quality monitoring program with the Androscoggin River Alliance (ARA). ARA volunteers will be sampling 4 locations in the Lewiston/Auburn segment of the river for e. coli, dissolved oxygen, temperature and specific conductivity in 2009 and 2010. The sampling program will work under a Maine DEP QAPP and will allow for consideration of an upgrade in Androscoggin River classification for the monitored segment. LAWPCA will provide sample analysis. A similar effort is underway on No Name Brook in Lewiston. Volunteers from the No Name Pond Watershed Association were trained and certified on July 18, 2009. They began the sampling effort in July 2009 and will continue through September 2009. This will be an annual activity.

Develop a Stormwater Awareness Plan

1. By March 2, 2009 submit a plan to raise area residents understanding of stormwater issues.

Please see attachment 1.

2. Start implementation of the Stormwater Awareness Plan by July 1, 2009.

No action for PY 1

Evaluate and assess implementation and impact of plan

1. Assess target audience in year one to set baseline level of awareness.

Please see attachment 1.

2. In PY 3 conduct cursory evaluation and assessment of both progress of implementing the plan and impact of the efforts/plan.

No action for PY 1.

3. In PY 5 conduct in-depth assessment of both implementation and impact of the Plan.

No action for PY 1.

◆ **Promote Behavior Change**

Continue efforts from previous MS4 permit cycle: Educate High Priority Businesses

1. In PY 1, this program will be evaluated to determine its effectiveness. Follow-up visits will be made to the ThinkBlue Business members. By January 30, 2009 interview ThinkBlue Business members to ascertain their views of the program: what attracted them to it? What could be done to improve it? What would be their recommendations? Decide if ThinkBlue Business program will continue.

Letters and questionnaires were sent to the participating businesses in Lewiston and Auburn asking for their feedback on the program and suggested revisions. No responses were received from any business. This seems to imply lack of interest and enthusiasm, stormwater managers from Lewiston and Auburn feel that continuing the program is not a good use of time and money.

2. If decide to continue ThinkBlue Business program, make improvements based on feed back from members and develops strategy by June 30, 2009 to increase membership.

No current plans to continue program.

3. Propose to add 2 auto service businesses to the ThinkBlue Business program by the end of PY 2

No action for PY 1.

4. Expand ThinkBlue Business to one new business sector by PY 3 and have a minimum of 4 businesses in the program by the end of PY 5.

No action for PY 1.

Develop and implement a Behavior Change Plan

1. By March 2, 2009 submit a plan to encourage a defined, targeted audience to adopt or practice specific BMPs that will reduce stormwater pollution.

Plan was submitted on March 3, 2009. Response received from DEP on April 30, requesting some minor revisions, re-submitted on May 27 and approved on July 14, 2009.

2. Implement Behavior Change Plan during PY 2-5.

No action for PY 1.

Evaluate and assess implementation and impact of BMP Adoption Plan

1. Assess target audience in year one to set baseline level of awareness.

Results from previous neighborhood survey conducted in summer 2008 were used to determine baseline level of behavior for Lewiston target area. Auburn and Sabattus are in the process of completing drive-by surveys in their target areas to establish baseline numbers.

2. In PY 3 conduct cursory evaluation and assessment of both progress of implementing the plan and impact of the efforts/plan.

No action for PY 1.

3. In PY 5 conduct in-depth assessment of both implementation and impact of the Plan.

No action for PY 1.

MCM #2 PUBLIC INVOLVEMENT AND PARTICIPATION
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◆ **Public Notice**

Provide an opportunity and encourage public input into regional stormwater program

1. LAS Stormwater Working group will follow state and local Public Notice requirements for LAS Stormwater Working group Stormwater Management Plan. The plan will be made available on the Maine DEP web site.

No Public Notice Requirements were invoked during PY 1.

All three LASSWG municipalities posted the joint Stormwater Management Plan on their respective websites.

2. LAS Stormwater Working group will provide opportunities for stakeholder input and involvement during implementation of the Stormwater Program.

LASSWG held stakeholder meetings on February 10, 2009 and May 12, 2009.

◆ **Host Regional Public Events**

Host regional event

1. The communities of LAS will jointly host an event each permit year to promote stormwater related issues. The event may vary year to year but will target residents of LAS.

Lewiston facilitated World Water Monitoring Day events with Boy Scout Pack 116 by sampling the water in the urban impaired Hart Brook. This has become an annual event. Lewiston stormwater manager provides handouts, discusses stormwater runoff, and explains the testing to be done. The water is tested for pH, temperature, dissolved oxygen and turbidity. The results are posted on the World Water Monitoring Day website.

In Auburn the Royal River Youth Conservation Corps (RRYCC) stenciled all the catch basins in the Royal River Watershed.

Sabattus sponsored a stormwater themed poster contest with students in grades 1-8. 120 students participate, and prizes were awarded for 1st, 2nd, and 3rd place for each age group. Themes were:

Only rain down the drain Storm drains lead to streams

Water is our world We all live downstream

All creatures need clean water Protect our water it's our future

Stormwater does matter Water helps us every day

Clean water = Healthy People

All entries were on display at the Town Office.

Encourage participation of students k-12 in community events

1. The LAS Stormwater Working group will provide literature regarding planned community events to the local schools with an invitation to join in the activity. At least two (2) activities will be planned, during this permit cycle, which are specifically designed for student participation.

Events above were focused on K-12 students

◆ **Assist With Household Hazardous Waste Program**

Promote the Western Maine Environmental Depot for disposal of household hazardous waste

1. The LAS Stormwater Working group Stormwater managers will continue to promote the use of the Western Maine Environmental Depot as a positive means of keeping hazardous materials out of the storm drain system. The Depot was opened in Lewiston in September 2005. The Depot, owned by the Androscoggin Valley Council of Governments and operated by Maine Environmental Depot, LLC, is open to residents of Lewiston, Auburn, Sabattus and other participating towns. The Depot accepts household hazardous waste twice per month from April to November.

LASSWG municipalities maintain posters and brochures promoting the Western Maine Environmental Depot.

◆ **Watershed based storm sewer system infrastructure map.**

Develop a watershed based storm sewer system infrastructure map

1. At a minimum, each individual MS4 will review their respective storm sewer infrastructure maps and revise as necessary in PY 1

Each LASSWG municipality has reviewed their stormwater infrastructure maps and has prioritized watersheds. A prioritized list of watersheds for each member of LASSWG follows:

Lewiston 1. Hart Brook 2. Jepson Brook

Auburn 1. Logan Brook

Sabattus 1. Sabattus Pond

The City of Lewiston has all watersheds and above ground storm water features identified in their GIS database and are currently working to identify all underground infrastructure, i.e. piping location, size and material. The field work has begun in the Hart Brook watershed.

The City of Auburn has begun the review of its current stormwater GIS geodatabase (i.e. watersheds, pipes, structures, surface drainage, etc.) to determine what the additional data creation and collection needs are. Additionally, the City is analyzing specific feature class databases to determine if there are refinements that can be made to the current data to enhance data collection efficiency and attribute value. Logan Brook's (Auburn's Urban Impaired Stream) watershed boundary and stormwater infrastructure was fully integrated into GIS in 2008.

The Town of Sabattus has all stormwater infrastructure mapping complete.

2. Annually, starting in PY 2, each MS4 will map at least 25% of the storm sewer infrastructure within the respective regulated urbanized area. Note: initiate mapping in the MS4's highest priority watershed as noted above.

No action for PY 1.

3. By the end of the PY 5, each regulated MS4 in the LAS stormwater working group will develop watershed based storm sewer system infrastructure maps showing the location of all stormwater catch basins, connecting surface and subsurface infrastructure depicting the direction of in-flow and out-flow pipes, and the locations of all discharges from all stormwater outfalls operated by the regulated small MS4.

No action for PY 1.

◆ **Non-stormwater discharge ordinance.**

Continue enforcement of non-stormwater discharge ordinance

1. Routinely inspect for non-stormwater discharges during scheduled maintenance work, scheduled inspections, and customer call-ins

Public works departments associated with LASSWG municipalities continue this action opportunistically during maintenance activities.

2. Review procedure for action to be taken when non-stormwater discharge is detected, revise as necessary

Employees are informed of whom to notify and what actions to take if a possible non-stormwater discharge is detected.

3. Evaluate non-stormwater discharge incidents to determine if a trend exists

No incidents occurred in Lewiston in PY 1.

The City of Auburn code enforcement officer investigated a possible illicit discharge from a citizen call-in complaint. Initial investigation revealed that the property may have had a septic system failure at some time in the past.

Dye testing and other investigations indicated that the septic system was functioning appropriately but monitoring of the property will be ongoing. The Washington Street property has the potential to discharge into the Little Androscoggin River.

Four septic system failures were reported in Auburn in 2008-2009. Most of these failures were due to septic tank maintenance issues and were remedied with pumping. Two of the issues are still being resolved.

No incidents occurred in Sabattus in PY 1.

4. Revise procedures to combat trend, if applicable

NA for PY 1

◆ **Dry weather outfall inspection program.**

Develop dry weather outfall inspection program

1. By end of PY 1, select and delineate a priority watershed.

Lewiston has selected Hart Brook Watershed as a priority watershed. Hart Brook is identified as an urban impaired stream and has an approved Watershed Management Plan.

The City of Auburn selected the urban impaired Logan Brook as its priority watershed. This small watershed (approximately 150 acres) does not contain

significant subwatersheds and therefore no priority subwatersheds have been identified.

In 2008, the City of Auburn improved the boundary delineation of the Logan Brook watershed in order to account for below ground stormwater infrastructure, recent development and rooftop runoff conveyance in the Maine Mall area.

Sabattus's urbanized area lies entirely within the Sabattus River watershed.

2. By end of PY 1, determine two highest priority sub-watersheds (discussed w/DEP prior to submitting Plan)

Lewiston has selected the Industry and Valley sub-watersheds within the Urban Impaired Hart Brook.

Auburn – N/A

Sabattus - N/A

3. By end of PY 1 have SOP for dry weather outfall inspection program.

All three LASWWG communities follow the SOP as outlined in Volume 2 of the GUIDELINES AND STANDARD OPERATING PROCEDURES For Stormwater Phase II Communities in Maine

4. By end of PY 2 have forms and data collection system in place for dry weather outfall inspections.

No action for PY 1.

5. By end of PY 2 have trained MS4 staff on how to conduct and record dry weather inspections.

No action for PY 1.

6. By end of PY 1, develop and implement a policy/procedure or protocol that identifies the steps that must be taken when an illicit discharge is encountered. Include situations that would trigger repeat inspections.

All three LASWWG communities have a procedure for handling the discovery of possible illicit discharge based on the SOP referenced above. Repeat inspections are completed if there is significant flow, a lingering odor or residue after 72 hours of no rainfall.

Implement dry weather inspection program

1. By the end of PY 1, conduct dry weather outfall inspections in the two highest priority sub-watersheds. Ensure sub-watersheds have a minimum of 8-10 outfalls

The City of Lewiston had previously identified the outfalls in the Hart Brook

watershed. However, the information was available in different data bases and formats and the annotation of the nodes in the GIS system was not consistent. Considerable time was dedicated in PY 1 to verify and consolidate this information. These outfalls were initially inspected in December 2005 and will be scheduled for summer 2009 weather depending. The City of Lewiston intends to have the data verified and an inspection schedule completed by end summer 2009. Outfall inspections have been done in November 2004, December 2005, summer of 2007 and summer of 2008.

In Permit Year 1, the City of Auburn conducted a review of Logan Brook outfalls to inform the development of an outfall inspection program for Logan Brook (and the rest of the city). Outfall locations were confirmed and inspected and an ArcGIS feature class, Logan Brook Stormwater Outfalls, was developed.

In 2009, twelve (12) piped stormwater outfalls within the Logan Brook watershed were confirmed as accessible. Portions of the stream are conveyed through pipe and at least three outfalls are directly connected to the piped conveyance and not accessible without confined space entry procedures. These outfalls will not be included in a dry weather outfall inspection program, but will be addressed via upstream catch basin cleaning opportunistic inspections for IDDE. Of the twelve (12) stormwater outfalls, only two (2) would be considered MS4 discharges. These two outfalls discharge from state roadways managed by the municipality through an urban compact agreement. The remaining ten (10) outfalls are discharging from private facilities and privately owned impervious areas directly into the Logan Brook. It appears likely that there are open conveyance discharges within this watershed which will be identified, mapped and inspected in future compliance with this MCM.

Dry weather inspections of accessible outfalls were conducted in 2009. Field inspection is conducted using PDAs and Windows Mobile forms and stored in a Microsoft Access database. No illicit discharges were detected but one outfall did exhibit some indicators of transitory or intermittent illicit discharges (possibly commercial washwater) and will be reevaluated in PY 2.

It is the Auburn's goal to develop a systematic approach to reducing and eliminating IDDE in Logan Brook and the City. Additional dry weather inspections will be conducted in Logan Brook during PY 2. If there continue to be no indication of permanent illicit discharges within this watershed then the City would like to consider mobilizing limited resources on other locations in the City to be determined through a GIS-based subwatershed prioritization process.

Sabattus has no subwatersheds. Sabattus completed its dry weather outfall inspection of its 8 mapped outfalls.

Sabattus identified 3 additional outfalls that had not been mapped and will be included in the GIS database in 2009.

2. In PY 2-5, conduct annual dry weather outfall inspections in additional sub-watersheds. Note: document and make use of opportunistic inspections.

No action for PY 1

◆ **Open Ditch Illicit Discharge Program**

Develop open ditch illicit discharge program

1. By the end of PY 3, identify and map the open ditch MS4s within the highest priority watershed.

No action for PY 1

2. During PY 2-5, the LASSWG will work together during the permit cycle to develop and implement a method for detecting illicit discharges in their open ditch system within the highest priority watershed of each regulated MS4. Possible methods for detection that could be used include but are not limited to the use of optical brighteners, an inspection internship program and some type of municipal inspection program. The LASSWG will work together where possible.

No action for PY 1

3. By the end of PY 5 the LASSWG will develop and implement a strategy for detecting and eliminating illicit discharges within the respective LAS MS4's open ditch system in their highest priority watershed. Individual MS4s in the LASSWG may opt to develop and implement their own strategy prior to the end of Year 5.

No action for PY 1

◆ **Continue Combined Sewer Overflow (CSO) program**

Continue CSO program

1. Both the cities of Lewiston and Auburn will continue their on-going CSO programs being executed in response to the Clean Water Act. These programs include inspections, studies, separation and / or storage projects with an end result of eliminating septic sewer from the storm sewer system.

Lewiston's CSO master plan is on track. Further information is available in Lewiston's Annual CSO Report.

As documented in the Auburn 2008 Annual CSO Progress Report developed for the MaineDEP, since the implementation of the CSO Master Plan, the City and Auburn Water and Sewage District have reduced the number of CSO points by 73 percent (from 11 to 3 regulators). CSO # 003, located on Washington Street, was separated in 2008. A total of 10,943 feet of sewer separation was completed at a cost of \$955,908. The CSO Master Plan is 74% complete and ahead of schedule.

In addition, 1,400 catch basins in the City of Auburn combined sewer system were cleaned and 5000 feet of sewer were cleaned. CSO separation work is conducted to ensure that no illicit connections to the storm drain occur once the separation is complete.

◆ **Continue Significant Industrial Users (SIU) program**

Continue Significant Industrial Users (SIU) program

1. The cities of Lewiston and Auburn will continue to support the LA Water Pollution Control Authority (LAWPCA) SIU program. The LAWPCA permits 23 industrial users as Significant Industrial Users (SIUs). 12 are in Auburn, 10 are in Lewiston, and one is in Poland but has sewer service from Auburn. SIU's are required to meet LAWPCA's rules and regulations for discharge. They may also have State/federal requirements for categorical industrial users, depending on what kind of manufacturing or services they provide. LAWPCA enforces these State/federal rules, as well. As part of the LAWPCA pretreatment program, LAWPCA inspects each facility at least once per year. Part of the inspection involves an environmental permits audit which includes identification of the users with stormwater permits, detention ponds, chemical storage areas near storm drains, etc. LAWPCA collects the information and puts it on file. If it is felt that there is a problem with a stormwater discharge, the facility's SIU rep. is informed. If it's not corrected, the problem is forwarded to the City or Maine DEP.

LAWPCA Pretreatment Program inspectors visited all 13 regulated SIUs in Auburn during their pretreatment year (September 1, 2008 - August 31, 2009). LAWPCA typically records notations and observations regarding industrial site stormwater during their inspections, including whether or not each SIU has a stormwater permit. No potential discharges to the storm sewer system were noted.

The cities of Lewiston and Auburn received no notices as part of the SIU program in PY 1.

MCM #4 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

◆ **Procedure to notify developers when required to obtain Maine Construction General Permit (MCGP)**

Procedure to notify developers when required to apply for a MCGP

1. The Cities of Lewiston, Auburn and Sabattus have revised their building permit application form to include a question to trigger awareness of the Maine Construction General Permit (MCGP). If the proposed project will disturb one acre or greater, the applicant is directed to obtain a MCGP.

LASSWG municipalities have revised their building permits so that developers are aware when a MCGP is required.

◆ **Document construction activity disturbing greater or equal to 1 acre**

Annually document construction activity(s) disturbing greater or equal to 1 acre, located within the UA

1. By the end of PY 1, LAS will have developed a program for tracking all construction activity disturbing greater or equal to 1 acre. This will be accomplished with the revised building permit application and an electronic data base. This data base will also identify the watershed in which the activity is occurring.

Lewiston has drafted a development review spreadsheet to track all projects including size of disturbance, size of development, watershed and any post-construction BMPs installed.

Lewiston had 1 project that disturbed greater than 1 acre.

The City of Auburn maintains an Excel database to track all development activity. Projects that exceed one acre or more are manually tracked by the Code Enforcement and Planning staff. The City is currently considering planning software that will greatly improve tracking of all planning and permitting activity and that has the capability to track stormwater related activities as well. Currently the City has reduced the potential software to two programs, CityView and Energov. Both software packages are GIS-enabled and can be set up for custom applications. The City of Auburn planning and code enforcement staff has been reduced by 20% and it is thought that this software will enhance efficiency for remaining employees.

The City of Auburn had 3 projects that triggered the Maine Construction General Permit in Permit Year 1.

Sabattus had no projects which disturbed greater than 1 acre in PY 1.

◆ **Construction site inspection**

Develop construction site inspection program

1. By end of PY 1 have SOP for construction site inspection program. SOP may include requirement for third party inspections if staff is unavailable.

Lewiston requires all new and redevelopment projects that disturb 1 acre or greater to employ third party inspection throughout the construction phase. Projects disturbing less than 1 acre are inspected in house.

The City of Auburn continues to maintain a Standard Operating Procedure for site inspections during development. City code enforcement staff visit all permitted activity (greater and less than one acre of disturbance) within the City 5-7 times during the course of the construction project. These inspections are focused on Building, Electrical, and Plumbing and include Erosion and Sediment Control Review. Additionally, all fill permits filed with the City (over 10 cy of fill) are inspected at least once per permit. It is the intention of the City to develop specific erosion and sediment control inspection forms as a part of planning software upgrades. .

The Town of Sabattus - Code Enforcement officer conducts inspections of all new development related to building code and general erosion and sediment control. The Town maintains an erosion and sediment control checklist that is utilized for projects that require construction site inspection. There were no projects requiring inspection in PY1.

2. By end of PY 1 the LASSWG will review existing construction inspection form to ensure it includes all requirements for compliance with MCGP and Chapter 500 and revise as necessary. Form will include requirement for E&S plan for all projects disturbing greater than or equal to 1 acre. The inspector will review this plan either prior to construction or at the first site inspection. The inspection form will be revised to document size of construction site (less than one acre or equal or greater than one acre) and to include location of the construction, i.e. urban impaired stream watershed or other high priority watershed. Those will require at least three inspections. Construction located in areas other than those noted above, will require at least two inspections. One inspection for all construction sites will be at project completion to ensure all post-construction BMPs were installed and are functioning properly and that final site stabilization has been completed.

Lewiston requires all new and redevelopment projects that disturb 1 acre or greater to employ third party inspection throughout the construction phase. Projects disturbing less than 1 acre are inspected in house.

The City of Auburn intends for future planning and permitting software package to include standard construction inspection forms for erosion and sediment control.

The Sabattus Code Enforcement Officer/Building Inspector is responsible for construction site inspection and is in the process of reviewing the inspection form to ensure all compliance requirements for the MCGP and Chapter 500 are included.

3. By October 30, 2009 have trained MS4 staff on how to conduct and record construction site inspections.

No action for PY 1

Implement construction site inspection program

4. By end of PY2 implement construction site inspection program.

No action for PY 1

◆ **Municipal Post-Construction Program**

Implement a stormwater runoff control program

1. The Cities of Lewiston, Auburn, and Sabattus have revised their ordinances to reflect the most recent Chapter 500 revisions with regard to stormwater runoff controls for projects disturbing one or more acres. The ordinance requires adherence to Maine Stormwater Management Law 38 M.R.S.A Section 420-D and regulations promulgated there under, specifically Rules 500 and 502. Enforcement of this ordinance will be the city's program for ensuring appropriate post-construction BMPs are installed for projects which disturb one acre or greater.

Lewiston had 1 projects constructed that had post construction BMPs installed.

Of the three projects that disturbed more than one acre, the City of Auburn had two projects that included post-construction BMPs implemented as required under the Maine Stormwater Management Law and one project that was a part of a common scheme of development that already had stormwater management controls in place. Each of these projects were permitted prior to the enactment of the City's post-construction ordinance.

Sabattus had no projects constructed that had post construction BMPs installed in PY 1.

2. Development review procedures will include review of post-construction BMPs and recording of BMPs to track annual inspection and 5 year re-cert reporting requirements.

Lewiston has drafted development review spreadsheet to track post-construction BMPs

The City of Auburn intends for its future planning software to manage the tracking of these projects.

Sabattus will track and record all annual inspections.

◆ **Implement Post-Construction BMP Long-term Operation and Maintenance Ordinance**

Evaluate model post-construction BMP long-term operation and maintenance ordinance developed for regulated MS4s

1. In PY 1 the LASSWG will adapt the model ordinance or other DEP approved measure to meet the desired format of each municipality.

All LASSWG municipalities have adapted model ordinance for post construction BMP long-term O&M

2. By the end of PY 1 LASSWG shall implement a post construction BMP operation and maintenance ordinance or similar measure that ensures long term operation and maintenance of post construction BMPs.

Lewiston received a 60 day extension on adopting the ordinance. Due to unplanned re-organization within the city's administration, this date was not met. The ordinance will be heard by the Planning Board on Sept 28, 2009 and twice by the City Council, Oct 6 and Oct 20, 2009. The ordinance will become effective November 20, 2009.

The City of Auburn Post-Construction Stormwater Management Ordinance was developed through collaboration between the Department of Community Services and Department of Planning. The City Council received a workshop and attended a meeting facilitated by the Department of Community Services on the post-construction ordinance prior to the first reading. The first reading of the ordinance Amendment to Chapter 32, Section 10 was on July 6, 2009 and the second reading was on July 20, 2009 at the City Council Meeting. The Ordinance was approved and went into effect on July 20, 2009.

Sabattus Post Construction Stormwater Ordinance was adopted May 30th, 2000. Sabattus will require all projects that include post-construction stormwater management systems to engage a third-party inspector and to provide annual reports to the Town's Code Enforcement officer. The Code Enforcement officer will track all post-construction BMPs.

3. In PY 2-5 implement the post construction ordinance.

No action for PY 1

◆ **Post-Construction Site Inspection and Maintenance**

Develop and implement an inspection program for sites which do not have qualified third party inspections

1. In PY 1 the LASSWG will develop an inspection program and inspection report form for post-construction inspections.

Lewiston requires all new and redevelopment projects that disturb 1 acre or greater to employ third party inspection throughout the construction phase. Projects disturbing less than 1 acre are inspected in house.

The City of Auburn passed its post-construction ordinance on July 20th. As of this date there have not been any projects that have required post-construction stormwater BMPs.

In an effort to inform developers and promote effective inspection and maintenance, the City of Auburn developed a Stormwater Facilities Inspection and Maintenance Certification Protocol packet. This packet

provides a basic overview of the annual certification process, including the annual certification form, an overview of standard Maine DEP stormwater management systems and a copy of the inspection checklist from the Maine DEP Stormwater Management Manual. The packet will be posted on the Auburn website with live links to other pertinent stormwater information. The City understands that the Maine DEP will be considering a revision to its stormwater BMP checklist over the fall and winter of 2009/2010. Once the checklist is updated to include recently accepted BMPs the City will consider development of an updated inspection checklist to be utilized on any projects requiring post-construction inspection in 2010.

2. In PY2 LASSWG will implement the inspection program using the inspection report form and begin development of a database system for managing the inspection data.

No action for PY 1

3. By the end of PY 2, complete database and training

No action for PY 1

4. In PY 2-5 the LASSWG will continue inspection program and document all inspection results and conduct yearly evaluations as necessary.

No action for PY 1

MCM #6	POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS
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◆ **Operations at municipally owned grounds and facilities.**

Evaluate existing facilities and operations

1. By June 30, 2009 inventory all municipally owned grounds and facilities in order to identify potential stormwater pollutants.

Lewiston has completed an inventory of municipally owned grounds and facilities and the operations which are done at each and identified potential stormwater pollutants.

Auburn has conducted a GIS-based inventory of all municipally owned parcels in the City. The City's stormwater program manager is scheduling a meeting with other City departments to determine what operations conducted in, on, or associated with these facilities and properties have the potential to contribute to stormwater pollution.

Sabattus has an inventory of all municipally owned properties. Sabattus has met with Maine DEP personnel in regards to structural and non-structural BMP's on its municipal facilities.

2. By June 30, 2010, develop and implement O & M procedures for municipal facilities and activities in the highest priority watershed.

No action for PY 1

3. By June 30, 2011, develop and implement O & M procedures for municipal operations and facilities throughout the rest of the regulated area.

No action for PY 1

◆ **Employee education program**

Develop employee education program

1. By June 30, 2009, the cities of Lewiston, Auburn, and Sabattus will develop a training program based on EPA, MeDEP, and regional stormwater group websites and publications.

LASSWG training program is in draft form and will be complete in summer 2009.

Sabattus held stormwater education sessions with employees and DEP at the transfer station and public works facilities.

2. By September 30, 2009, the first annual employee training session will be held.

No action for PY 1

3. Employee education will be supplemented by articles in City's monthly newsletters

Lewiston submits monthly stormwater article in City's newsletter covering stormwater friendly activities (either new or in a different way) people can do at home and current stormwater events happening in the area

This is not an action item for Auburn.

The Town of Sabattus does not publish a monthly newsletter, but the Town is currently updating its website. Each department will have space to post information. The Code Enforcement officer intends to publish stormwater information in this space in PY2 assuming that the website updates are forthcoming.

◆ **Street sweeping program**

Continue street sweeping program

1. By July 30 each year, complete sweeping streets of all winter debris

On-going in all LASWWG municipalities.

2. Continue sweeping program from spring to winter

On-going in all LASWWG municipalities.

◆ **Stormwater conveyances, structures and outfalls**

Catch basin cleaning and inspection program

1. PY 1-5 continue catch basin cleaning and inspection program developed in the first five year permit cycle. Catch basins are inspected annually and cleaned if there is less than one foot of free space in the basin. Catch basin residuals will be disposed of according to applicable state laws.

On-going in all LASWWG municipalities

The City of Auburn has conducted catchbasin residual sampling in accordance with Maine DEP recommended sampling strategy and analytical parameters for Beneficial Reuse pre-application materials characterization. The sampling results indicate that the material meets beneficial reuse criteria. A pre-application memo with sampling results has been prepared documenting sampling methods, results and proposed location for beneficial

reuse and has been submitted to Maine DEP Solid Waste staff. A pre-application meeting is being scheduled for fall 2009 with Eric Hamlin, Maine DEP to discuss Beneficial Reuse licensing next steps.

2. By end of PY 1, determine if an automated system (PDA in the field which downloads to data base) would be useful

It is not apparent that an automated system will greatly enhance SOP for catch basin cleaning and inspection program. At this time no automated system is being considered further.

3. By end of PY 2, develop automated system if thought useful

It is not apparent that an automated system will greatly enhance SOP for catch basin cleaning and inspection program. At this time no automated system is being considered further.

5. By end of PY 1, complete a written standard operating procedure for the program

SOP is complete.

Maintenance and upgrade of stormwater conveyances, structures and outfalls

1. By the end of PY 1, evaluate and implement a prioritized schedule, as necessary, for repairing or upgrading the conveyances, structures and outfalls of the regulated small MS4.

Annually the City of Lewiston prepares a Capital Improvement Plan and includes a prioritized listing of stormwater projects. This list is generated from issues found during scheduled inspections, issues found while other planned work is being executed and as a result of citizen call-ins. As funding is approved and scheduling allows, these projects are completed.

Auburn has targeted a large culvert replacement under Union Street, a box culvert in Great Falls Plaza, and an old stone box culvert (formerly a combined sewer system) in New Auburn as our high priority stormwater repairs, as well as wrapping up our CSO program by the end of 2011.

Sabattus has evaluated and scheduled a repair/upgrade of ditches and culverts.

◆ **Stormwater Pollution Prevention Plans (SWPPP) for municipal operations**

Develop and implement SWPPP for municipal operations

1. By the end of PY 1, inventory all municipal operations: public works facilities, transfer stations, and school bus maintenance facilities operated by the permittee unless the facility is currently regulated under Maine's Industrial Stormwater Program and determine which have SWPPPs.

Lewiston has completed inventory and determined which will require SWPPPs. An Environmental Compliance Audit was completed on the City's Public Works Facility in 2002. This has been reviewed and will be the starting point for development of SWPPPs.

The City of Auburn has conducted a GIS-based inventory of all municipally owned parcels in the City. A reevaluation of the municipal facility audit conducted in 2004 by Aquarion Engineering for the City will be considered in PY2. This inventory included an audit of three fire stations, the police station, the school bus garage, the highway garage, the city electrician's office, the parks and recreation garage and the Edward Little School. This audit will provide the basis for future SWPPP development for regulated facilities as outlined in the MS4 permit.

Sabattus has conducted an inventory of all its municipally owned properties.

2. By the end of PY 2, develop and implement SWPPPs for each applicable facility

No action for PY 1

4. PY 3-5, continue implementation of the SWPPPs

No action for PY 1

Permit Year 1 Report: Statewide Awareness Plan

Plan Development

The Stormwater Awareness Committee, which included representatives from each MS4 area/cluster, Maine Department of Environmental Protection (MDEP), and the University of Maine Cooperative Extension (UMCE) determined that existing assessments of the target audience (statewide Omnibus survey and Bangor Area Stormwater Group's intercept survey) offered sufficient data to determine a baseline level of awareness. Based on the two surveys referenced, 35% of our target audience already understands that stormwater impacts water quality.

Contracted staff from the Cumberland County Soil and Water Conservation District (CCSWCD) developed the Statewide Awareness Plan in conjunction with the Stormwater Awareness Committee. The plan was submitted to MDEP on March 2, 2009. MDEP's comments were incorporated and the plan was resubmitted on April 30, 2009. The plan was approved by MDEP on May 27, 2009.

Plan Implementation

Message Development & Testing

CCSWCD staff, on behalf of the MS4 communities statewide, developed potential messages to convey the following goal of the Statewide Awareness Plan: *Homeowners will understand that water does run off their property, not all is absorbed, and it will carry with it pollutants, such as lawn chemicals, pet waste and oil drops. This polluted water will enter the storm drain system, and discharge, untreated, directly to waterbodies used for drinking, fishing and swimming.*

Two unique messages ("Follow the flow" and "What happens in your yard doesn't stay in your yard") were tested against products from an existing awareness campaign from North Carolina ("Know where it goes").

To aid in testing, MDEP, University of Maine Cooperative Extension (UMCE), and CCSWCD staff developed standardized message testing forms. The forms asked people to describe, in their own words, the take away message for each of the poster options. They also asked people to rank, on a scale from one to five, the clarity of the message, the anticipated community response to the poster and the overall quality of the message. The forms were distributed to representatives from all of the MS4 communities with instructions to collect feedback from the target audience. The data gathered was entered into a database and analyzed to determine which option best conveyed our message.

Analysis showed that North Carolina's "Know where it goes" campaign was slightly favored over the other options, with a mean clarity rating of 4.00. However, because "Follow the flow" was only slightly lower (mean clarity rating of 3.87), and the open answer responses indicated that the message more closely summarized the goal stated in the Statewide Awareness Plan, the final message selection was "Follow the flow."



Feedback associated with the "Follow the flow" option indicated that the original graphic, showing runoff from a residential property entering a local water body, was too busy and difficult to understand. An artist was hired to take the original concept and simplify it. The new image was modified to show a traditional New England-style home and more potential pollutants. It also more clearly shows the water flowing into a storm drain. The image will be tested with the target audience to ensure it is clearer than the original image.

Outreach Materials

Website:

CCSWCD staff, on behalf of all MS4 communities, redesigned and updated the ThinkBlueMaine.org website. The new design is more user-friendly and better organized, making the information contained on the site easier to find. The new look of the site is cleaner and more appealing. It also prominently features the image of the rubber ducky.

The new website has a new section – the stormwater managers' toolbox. This page serves as a clearinghouse for all educational materials developed. All materials will be available for download to assist in the distribution of materials statewide.



Newly redesigned www.thinkbluemaine.org website.

The redesigned site was staged on CCSWCD website (www.cumberlandswcd.org/thinkbluemaine) in order for MDEP and the MS4 communities to view the site and provide comments before it went live on www.ThinkBlueMaine.org.

Ducky Ad:

CCSWCD staff worked with a media buyer to purchase ad space to run the Think Blue Maine ducky ads. Staff secured financial commitments from all MS4 communities/clusters and MDEP to purchase the ad space on local stations statewide. The ads will run the final three weeks in August.

Partner Networks:

A database of statewide partners has been started. The database includes contact information for conservation commissions, drinking water utilities, non-governmental organizations and school service learning coordinators.