

**STORMWATER PROGRAM
MANAGEMENT PLAN**

FOR

CITY OF PORTLAND, MAINE



Date: February 28, 2014

TABLE OF CONTENTS

1. INTRODUCTION

I. Overview of Regulatory Program	1
A. Stormwater Program Management Plan	1
B. Minimum Control Measures	1
C. Evaluation and Assessment	2
D. Annual Reporting and Record Keeping	2
II. Basis of Plan Development	3

2. REGULATED MS4 INFORMATION

I. Location Map	4
II. Urbanized Area Map	4
III. Priority Watersheds	4

3. MINIMUM CONTROL MEASURES

I. Public Education and Outreach	5
II. Public Involvement and Participation	9
III. Illicit Discharge Detection and Elimination	9
IV. Construction Site Stormwater Runoff Control	12
V. Post-Construction Stormwater Management in New Development and Redevelopment	13
VI. Pollution Prevention/Good Housekeeping for Municipal Operations	15

4. GENERAL REQUIREMENTS

I. Required Signature	19
II. Plan Availability	19

FIGURES

A. Location Map.....	21
B. Urbanized Area Map.....	22

APPENDICES

A. Notice of Intent	24
B. Urban Impaired Stream Watersheds	26

SECTION 1 INTRODUCTION

I. Overview of Regulatory Program

This Municipal Separate Storm Sewer System General Permit, hereinafter described as the General Permit, authorizes the direct discharge of stormwater from a regulated small municipal separate storm sewer system (“MS4”) to a MS4 or waters of the State other than groundwater, provided that the MS4 is located in an Urbanized Area as determined by the inclusive sum of the 2000 and 2010 Decennial Census by the Bureau of Census. Small MS4s are those entities which meet the definition in 40 CFR Part 122.26(b)(16). Regulated small MS4s are those entities required pursuant to 40 CFR 122.26(a)(9)(i)(A) to obtain stormwater permit coverage to operate their small MS4. Discharges from regulated small MS4s must meet the requirements of this General Permit and applicable provisions of Maine's waste discharge and water classification statutes and rules. Compliance with this General Permit authorizes a person to discharge stormwater, pursuant to Water Pollution Control Law, 38 M.R.S.A. § 413, as described below. Discharges listed in Part I(D)(2-6) of the General Permit are excluded from coverage under this General Permit. Unless otherwise explicitly noted, this permit only covers operations or activities associated with stormwater runoff from the regulated small MS4 within an identified Urbanized Area.

A. Stormwater Program Management Plan

The regulated MS4 owner or operator, hereinafter the “permittee” or “City of Portland”, shall develop, implement, and enforce a Stormwater Program Management Plan (“Plan”) implementing six minimum control measures, set forth in Section H of the General Permit, which are designed to reduce the discharge of pollutants from its regulated small MS4 to the maximum extent practicable, to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act. For the purposes of this permit, narrative effluent limitations requiring implementation of BMPs are generally the most appropriate form of effluent limitations when designed to satisfy technology requirements (including reductions of pollutants to the MEP) and to protect water quality. The Plan and all Minimum Control Measures must be substantially implemented by June 30, 2018. The permittee shall describe in its Stormwater Program Management Plan how it will reduce or eliminate polluted stormwater runoff to the maximum extent practicable, from its regulated MS4.

B. Minimum Control Measures (MCM's)

The General Permit requires that for each MCM, the permittee shall: define appropriate best management practices (BMPs); designate a person(s) or position(s) responsible for each BMP; define a time line for implementation of each BMP; and define measurable goals for each BMP. The Minimum Control Measures to be included in the Plan are as follows:

- Public education and outreach on stormwater impacts
- Public involvement and participation
- Illicit discharge detection and elimination

- Construction site stormwater runoff control
- Post-construction stormwater management in new development and redevelopment
- Pollution prevention/good housekeeping for municipal operations

C. Evaluation and Assessment

As specified in Part IV(J)(1) of the General Permit, the permittee shall evaluate program compliance, the appropriateness of identified best management practices, and progress towards achieving identified measurable goals.

D. Annual Reporting and Record Keeping

The permittee shall keep records required by the permit for at least three (3) years following its expiration, or longer, if requested by the DEP Commissioner. The permittee shall make records, including its Stormwater Program Management Plan, available to the public at reasonable times during regular business hours.

By September 1, 2014, and annually thereafter by September 15, the permittee shall submit a report for the Department's review and approval to:

**Municipal/Industrial Stormwater Coordinator
Department of Environmental Protection
17 State House Station
Augusta, Maine 04333-0017**

The report must include the following:

1. The status of compliance with permit conditions based on the permittee's Plan, an assessment of the appropriateness of identified best management practices, progress towards achieving identified measurable goals for each of the Minimum Control Measures, and progress toward achieving to goal of reducing the discharge of pollutants to the MEP.
2. Results of information collected and analyzed, including monitoring data, if any, during the reporting period.
3. A summary of the stormwater activities the permittee intends to undertake pursuant to its Plan during the next reporting cycle.
4. A change in any identified BMPs or measurable goals that apply to the Plan.
5. A summary describing the activities, progress, and accomplishments for each of the minimum control measures #1 through #6 (including such items as the status of education and outreach efforts, public involvement activities, stormwater mapping efforts, dry weather inspections, detected illicit discharges, detected illicit connections, illicit discharges that were eliminated, construction site inspections, number and nature of enforcement actions, post construction BMP status and inspections, and the status of the permittee's good housekeeping/pollution prevention program.

Changes to the report based on the Department's review comment(s) must be submitted to the Department within 60 days of the receipt of the comment(s). If possible, the permittee will provide an estimate of annual expenditures for permit compliance for the reporting period and projected budget for the following year.

II. Basis of Plan Development

This Stormwater Program Management Plan was developed in accordance with the requirements of the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems, which was issued by the Maine Department of Environmental Protection (DEP) on July 1, 2013. Per the General Permit, implementation of the six MCMs is required only within the urbanized area, as determined by the inclusive sum of the 2000 and 2010 Decennial Census by the Bureau of Census.

Integrated Municipal Stormwater and Wastewater Planning Approach

On June 5, 2012, EPA released the final Integrated Municipal Stormwater and Wastewater Planning Approach Framework. The framework was developed in conjunction with the October 27, 2011 memorandum entitled Achieving Water Quality Through Integrated Municipal Stormwater and Wastewater Plans. The "framework" was developed to provide further guidance for EPA, States and local governments in developing and implementing effective integrated plans under the Clean Water Act.

The City of Portland remains committed to complying with Clean Water Act mandates including the MS4 permit as evidenced in our Notice of Intent to Comply. The City understands that the "integrated plan framework" is an option provided to help municipalities meet their CWA obligations by optimizing the benefits of their infrastructure improvement investments through the appropriate sequencing of work and is not about lowering existing regulatory or permitting standards or delaying necessary improvements.

The City of Portland reserves the right to petition MaineDEP under Reopener provisions of the General Permit Part I.D.7 if and when the City engages in the development of an integrated municipal stormwater and wastewater plan and if and when the City identifies a sequencing of work that deviates from the conditions of this MS4 general permit.

SECTION 2 REGULATED MS4 INFORMATION

I. Location Map

The location map for the City of Portland is included as Figure 2.1.

II. Urbanized Area Map

The urbanized area map was developed by the EPA from the U.S. Census Bureau 2000 and 2010 Decennial Census Urbanized Area and Urban Cluster Data, and is included as Figure 2.2.

III. Priority Watershed

The City's highest priority watershed is: Capisic Brook Watershed. Several factors lead Portland to focus on this watershed, including, but not limited to the following:

- Over 1500 acre size of Capisic Brook Watershed (within Portland)
- Single family home density and commercial land use mix
- Complexity of the watershed's hydrography and underground sewer & storm systems
- Watershed boundary overlap into City of Westbrook
- The City has completed a majority of its CSO abatement work within this watershed.
- The City has a DEP-approved Watershed Management Plan for this watershed.

**SECTION 3
MINIMUM CONTROL MEASURES**

I. PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS

The City of Portland will fulfill the requirements for Public Education and Outreach through participation in the Interlocal Stormwater Working Group (ISWG) and the permittee's provision of funding to the ISWG for Public Education and Outreach services, as described in this section of the plan.

Responsible Party: Portland Public Services in cooperation with ISWG Education Coordinator.

A. Goals

1. To raise awareness that polluted stormwater runoff is a significant source of water quality problems for Maine's waters;
2. To motivate people to use Best Management Practices (BMPs) which reduce polluted stormwater runoff ; and
3. To reduce polluted stormwater runoff as a result of increased awareness and utilization of BMPs.

B. Required Best Management Practices

1. Raise Awareness.

Each permittee or stormwater group of which the permittee is a member shall have a new Awareness Plan or revise an existing Plan to raise awareness of stormwater issues for a target audience outside of municipal government. The permittee shall submit draft Stormwater Awareness Plan to the Department for review and approval by December 1, 2013. The Stormwater Awareness Plan is considered approved as of February 1, 2014, unless the permittee receives written communication from the Department indicating non-approval.

- i. In Permit Year 1, the City and ISWG will continue select awareness activities from previous permit cycle which will include; maintaining a link to www.thinkbluemaine.org on municipal website; participation in a statewide media campaign to include 12 months of television advertisements and 12 months of online advertisements that direct to www.thinkbluemaine.org; and promote their approved public event.
- ii. In Permit Year 1, the City and ISWG will refine and revise the Awareness Plan.
- iii. In Permit Year 1-5, the City will implement Awareness Plan elements internally or through ISWG partnerships consistent with the Awareness Plan.
- iv. In Permit Year 5, the City with its ISWG partners will evaluate Awareness Plan and prepare to modify for next permit cycle.

Reporting: The permittee shall include a review of the Stormwater Awareness Plan outreach efforts in each of its Annual Reports.

2. Raise Municipal Permit Awareness.

Permittee shall develop and implement an education program aimed at municipal staff, employees or volunteers. The permittee shall begin implementation of the Permit Awareness Plan within one week of its approval. The permittee shall submit the draft Permit Awareness Plan to the Department for review and approval. The Permit Awareness Plan is considered approved as of March 1, 2014, unless the permittee receives written communication from the Department indicating non-approval.

- i. In Permit Year 1 and by January 6, 2014 the City will submit a plan to DEP through ISWG to raise permit awareness. Unless DEP responds in writing or verbally otherwise, as of March 1, 2014 the Awareness Plan is considered approved and implementation of the Permit Awareness Plan will begin.
- ii. In Permit Year 1, the City and ISWG will assess or utilize existing assessments of the target audience to document baseline level of action by which the implementation of the Permit Awareness Plan can be measured.
- iii. In Permit Year 2-4, the City will implement Permit Awareness Plan elements internally or through ISWG partnerships.
- iv. In Permit Year 5, the City with its ISWG partners will evaluate Permit Awareness Plan and prepare to modify for next permit cycle.

Reporting: The permittee shall include a review of the Permit Awareness Plan outreach efforts in each of its Annual Reports.

3. Target BMP Adoption

Each permittee or stormwater group of which the permittee is a member shall have a new or revised Adoption Plan with the goal of promoting behavior change through the implementation of BMPs. The permittee shall submit the draft BMP Adoption Plan to the Department for review and approval by November 1, 2014. The BMP Adoption Plan is considered approved as of, January 15, 2014 unless the permittee receives written communication from the Department indicating non-approval.

- i. In Permit Year 1, the City and ISWG will assess or utilize existing assessments of the target audience to document baseline level of action by which the implementation of the BMP Adoption Plan can be measured.
- ii. In Permit Year 1, the ISWG will continue BMP adoption activities carried out in Permit Year 5 (2008-2013) of the previous BMP Adoption Plan. Activities include: Providing a minimum of six adult education classes throughout the ISWG region per year; Work with a minimum of 21 retail locations to provide healthy lawn care education to consumers; Maintain the YardScaping website hosted on CCSWCD's website; and Provide

information to targeted neighborhoods via direct mail, neighborhood canvassing, socials or other means.

- iii. In Permit Year 1 and by November 1, 2014 the City will submit a plan to DEP through ISWG to encourage the targeted audience to adopt or practice specific BMPs that will reduce stormwater pollution.
- iv. In Permit Year 2-4, the City will implement BMP Adoption Plan elements internally or through ISWG partnerships.
- v. In Permit Year 5, the City with its ISWG partners will evaluate BMP Adoption Plan and prepare to modify for next permit cycle.

Reporting: The permittee shall include a review of the BMP Adoption Plan in each of its Annual Reports.

4. Enhanced Education and Outreach

Permittees will enhance their education and outreach effort in their impaired or priority watershed or work to address a stormwater pollutant issue of regional or statewide significance. Permittees with an impaired waterbody may either target a specific activity that if successfully addressed will improve and/or protect water quality in the priority or impaired watershed(s) or the permittee may choose instead to work singly or collaboratively on a common regional or statewide stormwater pollutant issue. The goal of the effort should be to reduce or eliminate the pollutant(s) of concern.

- i. In Permit Year 1 and by July 1, 2014, the City shall develop a draft plan on how it plans to meet either permit requirement as stated above.
- ii. In Permit Year 2-4, in conjunction with the ISWG the City will implement the Priority Watershed Plan.
- iii. In Permit Year 5, the City with its Salt Manager partners will evaluate program and prepare to modify for next permit cycle.

Reporting: Review of Targeted Outreach in Priority Watershed Plan will be included in Annual Reports starting in permit year two. The review will include process and impact indicators as outlined in the Targeted Outreach in Priority Watershed Plan. In permit year five an analysis of the process and impact indicators of the Targeted Outreach in Priority Watershed Plan will be provided.

C. *Additional Best Management Practices*

1. School Outreach

- i. In Permit Year 1, continue the incorporation and implementation of “It’s all connected” school curriculum in elementary and/or middle schools.
- ii. In Permit Years 2 - 5, as funding permits, continue the incorporation and implementation of “It’s all connected” school curriculum in elementary and/or middle schools.

Reporting: Annual reports will include the total number of students reached, which schools were involved and the lesson topics that were covered.

II. PUBLIC INVOLVEMENT AND PARTICIPATION

The City will fulfill the requirements for Public Involvement and Participation through participation in and partial funding of the Interlocal Stormwater Working Group (ISWG) for Public Involvement and Participation services, or through directly fulfilling the requirements, as described in this section of the plan. The City will involve the public in both the planning and implementation process of improving water quality and reducing quantity via the stormwater program.

Responsible Party: Portland Public Services in cooperation with ISWG Education Coordinator.

A. Goal

Involve the public in both the planning and implementation process of improving water quality via the stormwater program.

B. Required Best Management Practices

1. Public Notice Requirement

The permittee shall comply with applicable state and local Public Notice requirements using effective mechanisms for reaching the public, and comply with the public notice requirements of the Maine Freedom of Access Act, 1 M.R.S.A. §§ 401 et seq. (“FOAA”) when the permittee involves stakeholders in the implementation of this General Permit. The permittee shall document the meetings and attendance through the annual report as a way of measuring this goal.

- i. The City and ISWG will follow state and local Public Notice requirements for both ISWG and individual Stormwater Program Management Plan elements.
- ii. The City and ISWG will follow state and local Public Notice requirements when involving stakeholders in the implementation of the Small MS4 General Permit.

Reporting: The annual report will describe compliance with public notice requirements including documentation of meetings and attendance, where applicable.

2. Host Public Event

The permittee or regional stormwater group of which the permittee is a member shall annually host/conduct or participate in a public event. The event must include a pollution prevention and/or water quality theme. The target audience does not need to be

the entire urbanized area but should be aimed at a segment of the population that the permittee wishes to reach. The permittee shall include a report of the public event in each of its Annual Reports.

- i. The City and/or City with ISWG will support/host/conduct an annual public event.

Reporting: The annual report will include description of the event. The report will include process indicators which assess the permittee's planning and execution, as well as impact indicators which assess the effectiveness of the event. The permittee shall also include a comprehensive review of the public events in its fifth year Annual Report that must include an analysis of the process indicators and impact indicators. The Permit Year 5 report will include a comprehensive review of the public event, including an analysis of the process and impact indicators.

C. *Additional Best Management Practices*

1. Household Hazardous Waste Collection

The City will continue to offer weekly collection of Household Hazardous Waste between April and November via drop-off at the Riverside Recycling facility. This service is also made available to other communities. Additionally, we accept Universal Waste six days a week year round. This includes fluorescent tubes, compact fluorescents, CRTS & TVs, mercury added items, batteries, and electronics.

III. ILLICIT DISCHARGE DETECTION AND ELIMINATION

The City of Portland shall develop, implement and enforce a program to detect and eliminate illicit discharges and non-stormwater discharges within the non-combined sewer MS4 area.

Responsible Party: Portland Department of Public Services.

A. *Goal*

Develop, implement and enforce a program to detect and eliminate illicit discharges and non-stormwater discharges.

B. *Required Best Management Practices*

1. Revise and Refine a Storm Sewer System Infrastructure Map.

Permittees subject to the 2008 MS4 General Permit shall continue to keep their map(s) current and ensure that maps are reviewed for any updates at least annually.

- i. By the end of Permit Year 1, the City will review its respective storm

sewer infrastructure maps in order to identify key storm sewer attributes and identify targeted geographic or data attributes for revision. Attributing will likely focus on identifying and clarifying MS4 outfalls and state, City or private ownership.

- ii. In Permit Years 2-5, the City will continue to update both geographic and data attributes of its MS4 storm sewer system GIS geodatabase (as necessary).

Reporting: Annual update of mapping efforts undertaken in the Permit Year.

2. Maintain non-stormwater discharge ordinance.

Permittees subject to the 2008 MS4 General Permit shall to the extent allowable under State or local law, continue to implement, and provide annual reporting of the permittee's non-stormwater discharge ordinance that effectively prohibits, unauthorized non-stormwater discharges into the permittee's storm sewer system. This BMP will also include coordination with the Portland Water District regarding water line and hydrant flushing to determine if either is a significant contributor of pollutants to the MS4

- i. In Permit Year 1, coordinate with the Portland Water via mail or in person to evaluate whether or not water line or hydrant flushing from potable water sources is a significant contributor of pollutants to the MS4. Evaluation will include the following action:
 - o Provide the Portland Water District with a location map showing the extent of the municipal urbanized area, and the highest priority watershed(s).
 - o Gather information from the Portland Water District, specific to the urbanized area and priority watershed(s), including the number and location of hydrants and details on water line or hydrant flushing that outlines procedures, including how often flushing occurs, typical flow rates and duration, where the water is conveyed, what the target or actual chlorine concentrations are, and what best practices are employed to prevent erosion and address potential pollutants.
- ii. By no later than December 30, 2014, unless otherwise approved by the Department, using available GIS or other municipal mapping information, the location of hydrants will be added to the storm sewer system infrastructure map to aid in the evaluation; the City will work with the Portland Water District to prioritize the hydrants or water lines that have the potential to cause exceedances of the ambient water quality criterion for chlorine when discharged through the MS4. The City will request a water quality progress report that documents what best management practices are being implemented for flushing activity at the prioritized

hydrants as well as the Portland Water District's testing results of the total residual chlorine for any such discharges.

- iii. Permit Years 3 – 5, the City will request an annual water quality progress report that documents what best management practices are being implemented for flushing activity at the prioritized hydrants as well as the Portland Water District's testing results of the total residual chlorine for any such discharges.
- iv. If it is determined by the end of Permit Year 3, that water line or hydrant flushing is a significant contributor of pollutants to the MS4, and the Portland Water District has demonstrated that it will not voluntarily implement BMPs in order to reach ambient water quality criteria for chlorine, the City will, as soon as practicable or by no later than the end of Permit Year 4, update their IDDE ordinance to allow enforcement of discharges that cause exceedances of water quality criteria.
- v. Permit Year 1-5, continue to maintain and enforce non-stormwater discharge ordinance.

Reporting: The annual report will include a status update on the evaluation of water line and hydrant flushing as a significant contributor of pollutants to the MS4 and an update on subsequent actions.

3. Continue IDDE program for MS4.

Permittees subject to the 2008 MS4 General Permit shall continue to implement its prioritized dry weather outfall inspection plan based on drainage areas such as an urban impaired stream watershed, or based on a watershed or sub-watershed that the permittee has identified as having the greatest potential threat to the receiving water. Permittees subject to the 2008 MS4 General Permit shall revise their outfall inspection plan and continue conducting dry weather inspections in different watersheds or sub-watersheds as approved by the Department and evaluate discharges for illicit connections.

The municipality must have a defined procedure/policy or protocol in place that details the steps that must be taken when an illicit discharge is identified during these inspections to locate the source of the illicit discharge and eliminate it.

- i. By end of Permit Year 1, refine and revise outfall inspection plan, inspection areas and timeline.
- ii. By end of Permit Year 1, refine and revise (as needed) SOP(s) for dry weather outfall inspection program and opportunistic catch basin investigations.
- iii. By end of Permit Year 1, refine and revise (as needed) forms and data collection system in place for dry weather outfall inspections.
- iv. By end of Permit Year 1, refine and revise (as needed) policy/procedure or protocol that identifies the steps that must be taken when an illicit discharge is encountered in order to locate the source of the illicit discharge and eliminate it.
- v. In Permit Years 2 - 5, conduct annual dry weather outfall inspections and

opportunistic catch basin inspections within the areas identified in the inspection plan.

Reporting: Inspection results will be documented in a database management system or other recordkeeping system and a summary will be reported in annual reports submitted to the DEP.

4. Open Ditch Illicit Discharge and Septic System Assessment

Permittees subject to the 2008 MS4 General Permit shall continue to implement an illicit discharge/illicit connection detection program based upon a schedule approved by the Department. Each permittee shall develop a list of septic systems in its highest priority watershed that are 20 years old or greater and which may discharge to the MS4 if the system fails. By June 30, 2017, each permittee shall implement a drive-by evaluation and documentation program of septic systems in its highest priority watershed that are 20 years old or greater and which have the potential to discharge into the MS4. This septic system inspection and documentation program must include a mechanism for addressing any discharges to the MS4 from malfunctioning septic systems.

- i. During Permit Years 1, the City will incorporate a strategy in its overall IDDE plan, for detecting illicit discharges in their open ditch system.
- ii. During Permit Year 1-3, the City will document known septic system areas and include in overall watershed map.
- iii. During Permit Year 4, the City will conduct drive by evaluation of septic areas within it highest priority watershed.

Reporting: Annual reports to DEP will include a status report on the development and implementation of the Open Ditch Illicit Discharge and Septic System Assessment.

IV. CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

Each permittee shall develop, implement, and enforce a program, or modify an existing program, to reduce pollutants in any stormwater runoff to the regulated small MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. Reduction of stormwater discharges from construction activity disturbing less than one acre must be included in the program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more.

Responsible party: Portland Planning and Urban Development with support from Public Services

A. Goals

Reduce pollutants in any stormwater runoff to the regulated small MS4 from construction activities that result in a land disturbance of greater than or equal to one acre.

Per General Permit Part IV(H)(4a.), the City will rely on either the Maine Construction General Permit or Chapter 500, Stormwater Management.

B. *Required Best Management Practices*

1. Notification to Developers.

The City of Portland will maintain procedures for notifying construction site developers and operators of the requirements for registration under the Maine Construction General Permit or Chapter 500, Stormwater Management for the discharge of stormwater associated with construction activities.

- i. During Permit Year 1 - 5, continue notification procedures currently in place using check-off box notices on building permit applications that notify applicants of the registration requirements.

Reporting: Any system modifications will be summarized in our annual reports.

2. Document every construction activity that disturbs one or more acres in the City.

- i. In Permit Year 1, refine and revise tracking system (as needed) to record every activity that disturbs one or more acres

Reporting: The system will be used to summarize construction activity to be included in annual reports submitted to the DEP.

3. Implement a construction site inspection program.

Implement site inspections procedures to ensure projects are in compliance with the MCGP and Chapter 500, Stormwater Management. In watersheds of Urban Impaired Streams, and in the permittee's highest priority watershed, inspect the construction activity at least three times with one inspection at project completion to ensure that all post construction BMPs were properly installed, and that final stabilization of the site has been completed. All construction inspections must be properly documented. For other watersheds, inspect the construction activity a minimum of twice, with one inspection at project completion to ensure that all post construction BMPs were properly installed, and that final stabilization of the site has been completed.

- i. By the end of Permit Year 1, refine and revise procedures for construction site inspections.

- ii. By the end of Permit Year 1, refine and revise (as needed) a standardized inspection form to ensure documentation of all required inspections.
- iii. By the end of Permit Year 1, refine and revise (as needed) a process for tracking.

Reporting: Inspections will be documented in a database management system or other recordkeeping system and a summary will be reported in annual reports submitted to the DEP.

V. POST-CONSTRUCTION STORMWATER MANAGEMENT

Each permittee shall develop, implement, and enforce a program to address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into the MS4. This program shall ensure that controls are in place that will prevent or minimize water quality impacts.

Responsible Party: Portland Public Services with support from Planning and Urban Development

A. Goal

Implement and enforce a program to address stormwater runoff from new development and redevelopment projects that discharge into the City's MS4.

B. Required Best Management Practices

1. Maintain stormwater management ordinance

To ensure adequate long-term operation and maintenance of post construction BMPs, each permittee subject to the 2008 MS4 General Permit shall continue to implement the latest revision of the post-construction discharge ordinance, effective September 17, 2009, or similar measure approved by the Department.

- i. Permit Year 1-5, continue to maintain and enforce Stormwater Management ordinance.

Reporting: Annual reporting of the City's stormwater management discharge ordinance and any achievements associated with the ordinance, as applicable.

2. Manage inspection program for post construction

Each permittee shall annually inspect a percentage of post construction BMPs located in the direct watershed of a lake most at risk from new development or in watersheds of an urban impaired stream. If the owner or operator of a post construction BMP hires a qualified third party inspector, the permittee will have no inspection requirements. If the owner or operator of a post construction BMP does a "self" inspection, the permittee is required to conduct the inspection schedule as shown on schedule in H.5.a.iii.

- i. Permit Year 1-5, the City will continue to rely on third-party inspections consistent with its ordinance and will conduct annual inspections of a percentage of post construction BMPs owned by the City and within its Urban Impaired Stream watersheds, in accordance with schedule outlined in the General Permit.
- ii. In Permit Year 2, refine and revise notification program for third-party inspections of private post-construction BMPs.
- iii. In Permit Year 2, refine and revise tracking system (as needed).

Reporting: Documentation of all inspections will be maintained by the City. Information to be collected includes:

- The cumulative number of sites that have post construction BMPs discharging into the City's MS4;
- A summary of the number of sites that have post construction BMPs discharging into the City's MS4 that were reported to the municipality;
- The number of sites with documented functioning post construction BMPs; and
- The number of sites that required routine maintenance or remedial action to ensure that the post construction BMP is functioning as intended.

3. Develop and Implement LID notification procedure.

Each permittee shall develop and implement a procedure for notifying site developers to consider incorporating low impact development techniques.

- i. Permit Year 1, the City will outline a procedure to notify developers on about LID.
- ii. In Permit Year 2-5, the City will implement relevant changes to notify developers of LID.

Reporting: The City will provide updates on implementation and any changes to procedure in its Annual Report.

Additional Best Management Practices

1. Stormwater Control Ordinance

The City currently utilizes a more stringent version of Chapter 500 that applies post-construction stormwater management BMPs to a broader category of projects (i.e., not limited to activities that result in a land disturbance of greater than or equal to one acre) and applies them city-wide.

VI. POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

Responsible Parties: Portland Department of Public Services

A. *Goal*

Prevent or reduce pollutant runoff from municipal operations and facilities.

B. *Required Best Management Practices*

1. Operations at municipally owned grounds and facilities.

Permittees subject to the 2008 MS4 General Permit shall continue to maintain their inventory of properties, facilities and activities, and continue implementation of their operation and maintenance plans. Copies of the operation and maintenance plans, including vehicle washing BMPs, shall be kept on-site at each facility.

- i. By the end of Permit Year 1, the City will refine and revise its list of and SOPs for municipal facilities, buildings, golf courses, cemeteries, parks and open space owned or operated by the City that have the potential to cause or contribute to stormwater or surface water pollution.
- ii. Permit Years 1-5. Update list of facilities and SOPs as needed.

Reporting: Annual reports to DEP each year of the permit will include a status report on the facilities and operations and maintenance procedures.

2. Municipal employee training.

The permittee shall report annually on the types of stormwater-related trainings presented, the number of municipal and contract staff that received training, the length of the training, and training effectiveness.

- i. By end of Permit Year 1, revise and refine training needs and materials (as needed).
- ii. In Permit Years 1-5 implement municipal employee training program to reduce stormwater pollution potential from municipal operations.

Reporting: Annual reports to DEP each year of the permit will include a status report on training programs, the types of trainings presented, number of employees and contract staff that received training, the length of the training and training effectiveness.

3. Street sweeping.

The permittee shall develop and implement a program to sweep all publicly accepted paved streets and publicly owned paved parking lots maintained by the permittee at least

once a year as soon as possible after snowmelt.

- i. Each permit year the City of Portland will continue a program to sweep all publicly accepted paved streets and publicly owned paved parking lots maintained by the City at least once a year as soon as possible after snowmelt.

Reporting: Annual reports to DEP each year of the permit will include a status report on street and parking lot sweeping.

4. Cleaning of stormwater structures including catch basins.

The permittee shall develop and implement a program to evaluate and, if necessary, clean catch basins and other stormwater structures that accumulate sediment at least once every other year and dispose of the removed sediments in accordance with current state law. The permittee shall clean catch basins more frequently if inspections indicate excessive accumulation of sediment. Excessive accumulation is greater than or equal to 50 percent filled.

- i. Each permit year the City will continue a program to evaluate and, if necessary, clean catch basins and other stormwater structures within MS4 that accumulate sediment at least once every other year and dispose of the removed sediments in accordance with current state law. The City will clean catch basins more frequently if inspections indicate excessive accumulation of sediment. Excessive accumulation is greater than or equal to 50 percent filled.

Reporting: Annual reports to DEP each year of the permit will include a status report on cleaning of catch basins and other stormwater structures.

5. Maintenance and upgrading of stormwater conveyances and outfalls.

The permittee shall evaluate and implement a prioritized schedule, as necessary, for repairing or upgrading the conveyances, structures and outfalls of the regulated small MS4.

- i. Permit Years 1-5, the City will continue to develop and manage its storm sewer system through a Capital Improvement Planning process.

Reporting: Annual reports to DEP each year of the permit will include a status report on the City's Storm Sewer CIP effort for the previous year (as applicable).

6. Stormwater Pollution Prevention Plans (SWPPPs)

Permittees subject to the 2008 MS4 General Permit shall continue to implement and update their SWPPP(s) to ensure it meets Maine's April 26, 2011 MSGP requirements including visual monitoring.

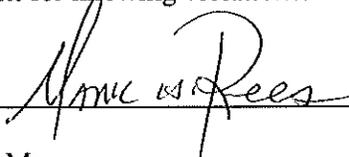
- i. Permit Year 1-5, the City will continue to implement and revise SWPPPs for each applicable facility (as needed).

Reporting: Annual reports to DEP each year of the permit will include a status report on the implementation of the SWPPP's.

**SECTION 4
GENERAL REQUIREMENTS**

I. Required Signature

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature:  Date: 3/4/14
Title: City Manager

II. Plan Availability

This Plan will be retained by the City's principal executive officer for the duration of the permit period and copies will be available and retained by municipal officials or employees responsible for implementation of the Plan. The City will make a copy of the Plan available to the following immediately upon request:

- A. The Commissioner of the Department;
- B. In the case of a regulated small MS4 adjacent to or interconnected with the City's storm sewer system, to the operator of that regulated small MS4; and
- C. In the case of a regulated small MS4 stormwater discharge to a water supply watershed, to the public water supply company.

FIGURES

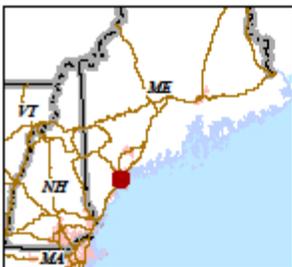
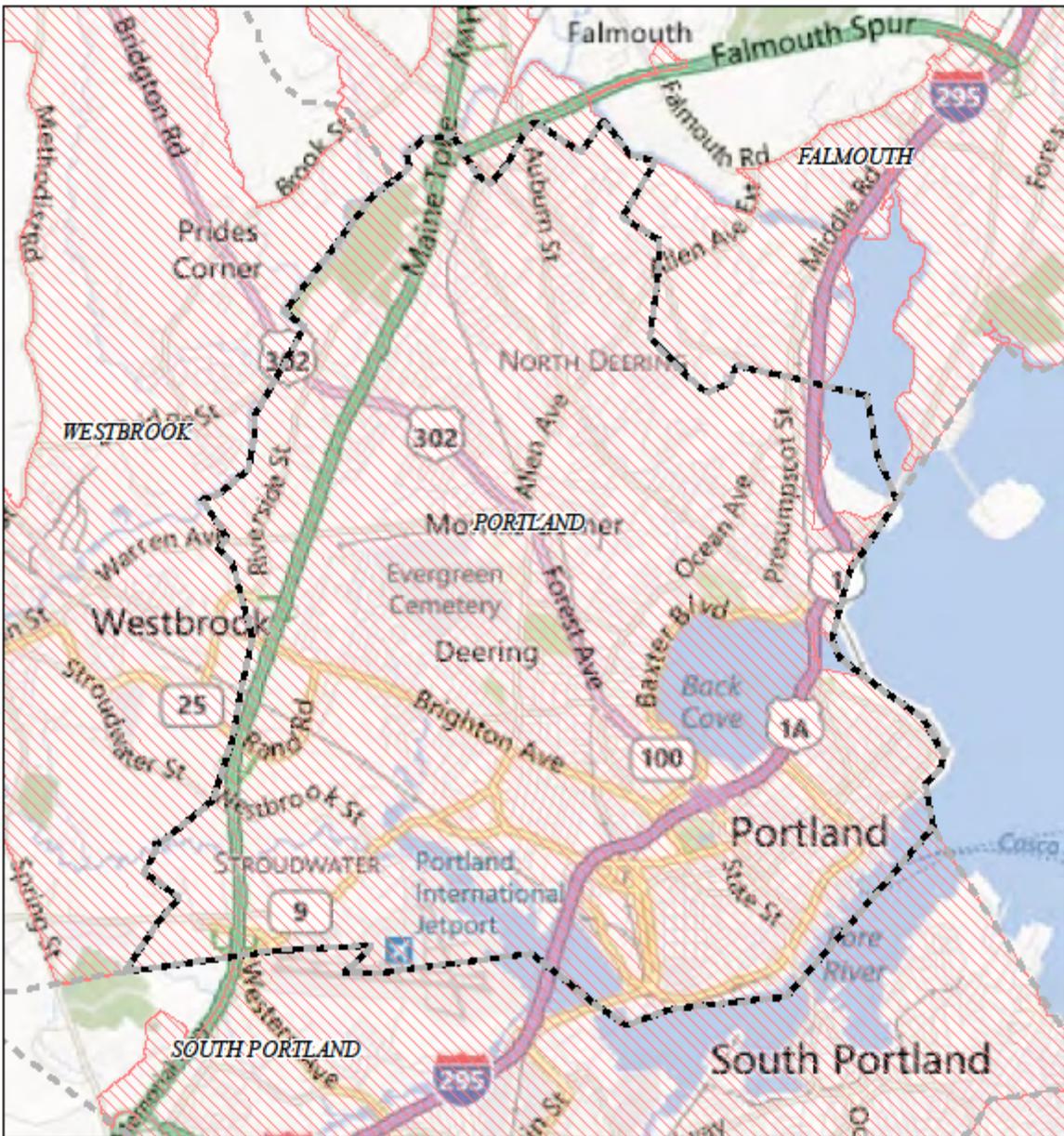
Figure 2.1 Location Map
Figure 2.2 Urbanized Area Map



**Figure 2.1 Location Map
City of Portland, Maine**



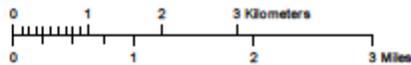
City of Portland, Maine
Department of Public Services
December 19, 2008



**NPDES Phase II Stormwater Program
Automatically Designated MS4 Areas**

Portland ME

 Regulated Area (2000 + 2010 Urbanized Area)



Town Population: **65606**
Regulated Population: **64581**
(Populations estimated from 2010 Census)



Urbanized Areas, Town Boundaries:
US Census (2000, 2010)
Base map © 2010 Microsoft Corporation
and its data suppliers

US EPA Region 1 GIS Center Map #8824, 11/19/2012

APPENDICES

- A. Notice of Intent
- B. Urban Impaired Stream Watersheds

APPENDIX A
NOTICE OF INTENT

NOTICE OF INTENT TO COMPLY WITH MAINE GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS

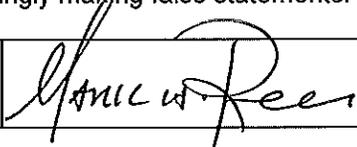
PLEASE TYPE OR PRINT IN BLACK INK ONLY

Municipality:	City of Portland, Maine	Mailing Address:	389 Congress Street		
Town/City:	Portland	State:	Maine	Zip Code:	04101
Name and title of chief elected official or principal executive officer:	Mark Rees, City Manager	Mailing Address:	389 Congress Street		
Town/City:	Portland	State:	Maine	Zip Code:	04101
Name of primary contact person responsible for MS4 stormwater management program:	Michael Bobinsky, Director of Public Services	Mailing Address:	55 Portland Street		
Town/City:	Portland	State:	Maine	Zip Code:	04101
Daytime phone: (with area code)	207-874-8800	Email if available:	mbobinsky@portlandmaine.gov		
Estimate of the area in square miles of the Urbanized Area:	Approx. 26 sq. miles	Permit Number (if applicable):	MER041024		
Name of stream(s), wetland(s) or waterbody(ies) to which the regulated Small MS4 discharges and a list of impaired waterbody(s) which receive stormwater from the Regulated Small MS4 (attach additional sheets as necessary):	Casco Bay, Back Cove, Fore River, Presumpscot River, Stroudwater River, Capisic Brook, Capisic Pond, Dole Brook, Fall Brook & Nason's Brook/wetlands				
Impaired per 2010 Integrated Water Quality Report (303d listed): Presumpscot River, Stroudwater River, Capisic Brook, Capisic Pond, Dole Brook, Fall Brook & Nason's Brook (including wetlands off Pinetree Industrial Parkway)					

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement knowingly made in the submitted information may be punishable as a criminal offense, in accordance with Maine General Statutes.

I certify that this permit registration is on complete and accurate forms as prescribed by the Department without alteration of the text.

I also certify under penalty of law that I have read and understand all requirements of the General Permit. I certify that all requirements for authorization under the general permit are met and that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit for the municipality. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowingly making false statements.

Signature of chief elected official or principal executive officer:		Date:	7/23/13
---	---	-------	---------

This NOI registration form must be filed with the Department at the following address:
 Stormwater Coordinator
 Maine Department of Environmental Protection
 Bureau of Land & Water Quality
 17 State House Station
 Augusta ME 04333-0017

OFFICE USE ONLY	Ck.#	Date	Staff	Staff	
NOI #	FP		Acc. Date	Def. Date	After Photos

APPENDIX B

URBAN IMPAIRED STREAM WATERSHEDS

Portland has four identified Urban Impaired Stream watersheds as defined by Appendix B of the General Permit for Small Municipal Separate Storm Sewer Systems issued in July 2013. During this permit cycle, the City of Portland will continue to focus on the Capisic Brook watershed as its priority watershed. The City has developed a Compensation Fee Utilization Plan for each of its urban impaired watersheds which will allow it to implement structural stormwater retrofits as fees are collected. Currently, the City obligates all new development (beyond single family residential) to meet state stormwater general standards and urban impaired stream standards. These requirements provide additional stormwater controls in all Portland Urban Impaired Stream watersheds.