

## 2013 ANNUAL REPORT BEST MANAGEMENT PRACTICES OBJECTIVES & STATUS REPORT

### 1. PUBLIC EDUCATION AND OUTREACH

The Permittee must implement a public education program to distribute educational material to the community. The public education program must provide information concerning the impact of stormwater discharges on water bodies. It must address steps and/or activities that the public can take to reduce the pollutants in stormwater runoff.

BMP / ID Responsible Party	Measurable Goal	Progress on Goal(s)	Planned Activity for calendar year 2014*
1.A. Develop and distribute/post a minimum of 2,000 impressions via print, local TV, local radio or other appropriate media during the life of the permit.  DPW	Stormwater information on the web, # of hits.	Over 830 visits were registered on the stormwater website during this reporting period.	Continue to update stormwater web page(s) to educate public on City initiatives, changing regulations and information residents need to know and will find useful.
	Produce education material for distribution. # of pamphlets /flyers/postings of information regarding stormwater.	Distributed <i>What is Stormwater</i> pamphlets at the HHW Collection event held Fall 2013. A total of 307 cars attended the event and received a pamphlet.	Continue to distribute stormwater pollution prevention pamphlets at appropriate events.
		Distributed flyer outlining the City's partnership with Watersense at the Portsmouth Farmer's Market on July 27, 2013.	
		Maintained 15 signs posted throughout the City advising dog owners to pick up their pet's waste.	Continue to have signs posted and replace any damaged signs due to weather / exposure.
	Continuing to promote stormwater education and provide updates on the City website and in the e-newsletter.	Continue to include stormwater information in e-newsletter and web.	

\* Permit issued for 5 years. 2007 was the 5<sup>th</sup> year of the permit. 2008 permit requirements not yet stipulated by the EPA. The City continues to operate under the provisions of the previous permit.

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<p data-bbox="193 407 478 646"><b>1.B.</b> Educate local residents participating in local government; groups; organizations.</p> <p data-bbox="193 646 478 914">DPW</p>	<p data-bbox="478 407 716 548"># of public events stormwater issues are presented and # of attendees.</p>	<p data-bbox="716 407 1241 678">The City personnel gave a tour to University of New Hampshire students during June 2013. City personnel provided educational information on sustainable issues which included stormwater pollution prevention and current Best Management Practices.</p>	<p data-bbox="1241 407 1879 678">Continue to make presentations as opportunities present.</p>
		<p data-bbox="716 678 1241 914">July 29, 2013, City staff held a public outreach event at South Mill Playground that included bacteria source tracking with canine detection. Water quality was discussed and storm drains were sampled for illicit discharges.</p>	<p data-bbox="1241 678 1879 914">Continue involve and inform residents and local groups about the City's long term stormwater plans.</p>
<p data-bbox="193 914 478 1219"><b>1.C.</b> Educate the general public and public school children about the stormwater / sewer system, so that they understand the City water management systems and pollution issues</p> <p data-bbox="193 1219 478 1289">DPW</p>	<p data-bbox="478 914 716 1019"># of presentation and # of attendees.</p>	<p data-bbox="716 914 1241 1289">The City distributed approximately 350 stormwater management flyers to residents dropping household hazardous waste off during the collection day held in October 19, 2013.</p>	<p data-bbox="1241 914 1879 1289">Continue to support public school education and make presentations as funding allows and opportunities present.</p>

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<p><b>1.D.</b> Collaborate with public and private entities to maximize efforts of reducing contaminants from Portsmouth waterways.</p> <p>City Hall</p>	<p># of initiatives the City leads, supports, is involved with, or has an employee acting as a representative on a committee ensuring the inclusion /addressing of stormwater issues.</p>	<p>1) Coordinated effort between the City and the Blue Ocean Society for volunteer litter and debris cleanup projects:</p> <p>New Castle 9/21/13</p> <p>Odiorne Point 9/21/13</p> <p>Pierce Island 4/20/13 5/10/13 9/21/13</p> <p>Great Bay 9/25/13</p>	<p>1) Continue assisting in clean-up activities at key locations throughout the City.</p>

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**2. PUBLIC INVOLVEMENT AND PARTICIPATION**

The Permittee must provide opportunity for the public to participate in the development, implementation and reviews of stormwater management program(s).

BMP / ID Responsible Party	Measurable Goal	Progress on Goal(s)	Planned Activity for calendar year 2014*
<p><b>2.A.</b> The City will involve stakeholder groups, including local governments, businesses, and citizens in making decisions about stormwater management priorities and programs throughout the City.</p>	<p>Annual presentation to City Council on stormwater issues. Presentations will be made during official meetings, which are open to public attendance and televised on the gov. TV.</p>	<p>The City continues to evaluate the feasibility of a Stormwater Utility. After completing the Feasibility study and presenting the results in Dec. 2012 during “Stormwater 101” presentation, the City continues to evaluate options to meet stormwater regulations and to improve the quality of the City’s stormwater while reducing pollution in the watershed. . A recording of this presentation is available on the City website and was also broadcast on local TV channel 22.</p>	<p>Develop strategies in order to continue researching the need to move forward with the stormwater program, and to understand the future options for reducing stormwater pollution with in the City and the vehicle to finance it.</p>
<p>City Hall/DPW</p>	<p>Collaborate with public and private entities to increase awareness, as well as improve on design and implementation of stormwater treatment issues related to building and site development design and construction throughout the City.</p>	<p>1) The Technical Advisory Committee (TAC) is responsible to review plans and proposals of public and private lands/construction projects and make recommendations to the Planning Board the Board; recommendations include appropriate stormwater features. In 2013 TAC met 24 times. A total of 20 sites were reviewed; of that a total of 16 sites included in depth discussion addressing stormwater issues and use of BMPs at the sites.</p> <p>2) In 2009, the City applied for and was awarded ARRA / DWSRF grant money for the purchase and sale of rain barrels. In 2010, 1,000 rain barrels were purchased; 700 rain barrels were sold in 2010, 250 barrels in 2011, and the remainder in 2012.</p>	<p>1) TAC to meet once a month and continue to incorporate stormwater pollution prevention recommendations to the Board when reviewing plans.</p> <p>2. City will explore additional grant funded potentials to expand this program.</p>

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<p>2.A. The City will involve stakeholder groups, including local governments, businesses, and citizens in making decisions about stormwater management priorities and programs throughout the City.</p> <p>City Hall/DPW</p>	<p>Collaborate with public and private entities to increase awareness, as well as improve on design and implementation of stormwater treatment issues related to building and site development design and construction throughout the City.</p>	<p>3) Monitoring the function of the Coakley Road and Colonial Drive rain gardens in conjunction with the Hodgson Brook Advisory Committee.</p> <p>4) Continue working in conjunction with the Pease Development Authority, Lonza and NHDES to improve the water quality of Hodgson brook by removing accumulated construction sediment from the existing drain structures, swales, and plunge pool(s) on Goose Bay Drive and Corporate Drive.</p>	<p>3) Perform routine maintenance as necessary.</p> <p>Include rain gardens in Adopt a Spot program with guidance from Candace J. Dolan of the Hodgson Brook Restoration Project.</p> <p>4) To continue improvements to Hodgson Brook and the watershed by conducting routine maintenance of the stormwater drainage system that discharges into the brook.</p>

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<p>2.A. The City will involve stakeholder groups, including local governments, businesses, and citizens in making decisions about stormwater management priorities and programs throughout the City.</p> <p>City Hall/DPW</p>	<p>The Technical Advisory Committee (TAC) review and approval of construction projects from private contractors.</p>	<p>In 2013, 24 TAC meetings were held. A total of 20 sites were reviewed; of that a total of 16 sites reviewed included in-depth discussion addressing stormwater issues.</p>	<p>Continue Site Review process under the new Zoning Ordinance requirements.</p>

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<p>2.B. Maximize resources and effectiveness, and coordinate with neighboring communities occupying the same watershed for appropriate and feasible education and out reach.</p> <p>City Hall / DPW</p>	<p># of meetings and/or coordinated efforts with the Stormwater Coalition and/or other organizations.</p>	<p>1) City staff attended quarterly meetings of the Seacoast Stormwater Coalition. Meetings held in 2013 were primarily focused on preparations for the new MS4 permit.</p> <p>2) City staff continues to meet with the Green Infrastructure Project group. In 2013 four meetings were attended.</p>	<p>1) On-going attendance at meetings and initiative support.</p> <p>2) Staff will continue to meet with and coordinate efforts with the GI project team. Work with Hodgson Brook team to identify locations for tree box filters and other appropriate GI projects.</p>

**3. ILLICIT DISCHARGE DETECTION AND ELIMINATION**

The Permittee must develop, implement and enforce a program to detect and eliminate illicit discharges.

<b>BMP / ID Responsible Party</b>	<b>Measurable Goal</b>	<b>Progress on Goal(s)</b>	<b>Planned Activity for calendar year 2014*</b>
<p><b>3. B.</b> Identify any illicit discharges and eliminate.</p> <p>DPW</p>	<p>Number of illicit discharges detected and/or eliminated.</p>	<p>1) Approximately 6,160 linear feet of new stormwater drain pipe was installed as part of CSO projects in the Richards Ave., Rockland St., Broad St., Cass St., Brewery Ln., Albany St., and Marcy St. areas.</p> <p>Worked with homeowners to connect sump pump and other stormwater connections (roof drains, floor drains, etc.,) to the new drainage systems.</p> <p>2) 1400 linear feet of new stormwater drain pipe is being installed as part of the CSO project on Aldrich Road.</p> <p>3) Identified one private sanitary sewer connection to the City’s stormwater drainage system. Connection was redirected to the sewer system.</p>	<p>Continue with Lincoln Area Sewer Separation Contract 3C to reduce amount of stormwater going to WWTP; eliminate existing combined sewer lines in City Right-of-Way, and reduce eliminate IDDE sump pumps from residential housing within construction area; install 5,500 LF of sewer main pipe and 6000 LF of drainage main pipe.</p> <p>Complete Aldrich Road Sewer Separation project.</p> <p>Continue to follow up investigations and enforcement of complaint phone calls and routine patrols.</p>

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<p><b>3.B.</b> Identify any illicit discharges and eliminate. DPW</p>	<p>Number of illicit discharges detected and/or eliminated.</p>	<p>4) No grease related discharges occurred in 2013.</p>	<p>Inspect and clean the downtown area before warm weather hits, tourist season begins and the streets become too crowded.</p>
	<p>Linear feet of sewer / storm drain system video taped / inspected.</p>	<p>A total of 40,700 ft. of cleaned and inspected sewer and drain line for Jan. 01, 2013 to Dec. 31, 2013. Inspections included 5 year inspections for the “Jewels” area, the Melbourne Street area and the Marjorie Lane area. There were also post construction inspections for the Richards Ave. and Malt House areas scheduled to be flow filled that required many days of cleaning for inspections to be possible.</p>	<p>Continue to inspect sanitary and storm sewers. In the course of inspections and identifying ID, work orders and/or projects will be under taken to implement corrective action/remove ID.</p> <p>Complete QA of mapping of the drain system in the State St. and Columbia St. area.</p> <p>Comprehensive II study will be performed by outside consultant in 2014.</p>
<p><b>3.C.</b> Establish legal authority for enforcement actions.  City Hall</p>	<p>The City to adopt means that provides enforcement mechanisms and penalties to halt illegal stormwater discharges and/or enhance stormwater / surface water quality.</p>	<p>No new Zoning Ord., was during this reporting period. The City continues to address the quality of surface waters and ground water by controlling the rate and volume of stormwater runoff under the zoning changes that were made in January of 2010.</p> <p>These requirements invite landowners/developers and contractors to work collectively for good alternatives and solutions, proposing BMPs for stormwater control incorporated in their request for developing properties.</p> <p>Further there is an enforcement provision to suspend a building permit providing compliance.</p>	

**4. CONSTRUCTION SITE STORMWATER RUNOFF CONTROL**

The Permittee must develop, implement and enforce a program to reduce pollutants in any stormwater runoff to the MS4 from construction activities that result in a land disturbance greater than or equal to 1 acre.

<b>BMP / ID Responsible Party</b>	<b>Measurable Goal</b>	<b>Progress on Goal(s)</b>	<b>Planned Activity for calendar year 2014*</b>
<p>4.A. Establish a set of minimum erosion and sediment control (ESC) requirements for construction sites.</p> <p>City Hall / DPW</p>	<p>Require ESC plans for any land disturbance greater than 5,000 square feet.</p> <p>Site Review procedures to include stormwater pollution prevention activities.</p>	<p>The City developed and completed an undeveloped land assessment, which looked at all undeveloped City owned properties. Each property was assessed for its potential for stormwater treatment. A total of 91 properties were assessed and stormwater treatment opportunities identified.</p> <p>The report is on the City’s website <a href="http://www.cityofportsmouth.com/planning/PULA_complete_final.pdf">http://www.cityofportsmouth.com/planning/PULA_complete_final.pdf</a></p> <p>The City requires developers of property to enter into construction management and mitigation plan to reduce and coordinate construction impacts. Those plans include provisions relative to SWPPPs, catch basin cleaning, street sweeping, good housekeeping regarding loose debris.</p>	<p>Many of the undeveloped parcels are part of a drainage easement for stormwater structures built prior to the comprehensive stormwater regulations. These sites present an opportunity to upgrade old drainage structures and improve the water quality of wetlands and surface waters.</p> <p>Wherever non-point source discharges were identified in this inventory, there is the potential for installation of stormwater BMP (Best Management Practice). These management suggestions are for capital improvements which must be prioritized based on, budget constraints, and will often include developing partnerships with abutting property owners to implement these management suggestions.</p>
<p>4.A. Establish a set of minimum erosion and sediment control (ESC) requirements for construction sites.</p> <p>City Hall / DPW</p>	<p>Enforce new ordinance / site review.</p>	<p>Pursuant to TAC meetings, the City may require an independent consulting engineer to inspect construction sites during a project. “Deemed necessary” is based upon the complexity, size of project and other variables discussed during the TAC meeting.</p> <p>In 2013, 24 TAC meetings were held. A total of 20 sites were reviewed; of that, a total of 16 sites reviewed included in-depth discussion addressing stormwater issues.</p>	<p>TAC will continue to stipulate the need for stormwater treatment and that projects maintain a stormwater management plan if stormwater treatment is applicable to the project.</p>

**5. POST-CONSTRUCTION RUNOFF CONTROL**

The Permittee must develop, implement and enforce a program to address stormwater runoff from new development and redevelopment projects that disturb greater than 1 acre and discharge into the municipal system.

<b>BMP / ID Responsible Party</b>	<b>Measurable Goal</b>	<b>Progress on Goal(s)</b>	<b>Planned Activity for calendar year 2014*</b>
<p><b>5. A.</b> Improve the quality of stormwater runoff by disconnecting impervious surfaces and installing and maintaining structural stormwater controls.</p> <p>DPW</p>	<p># of structural controls installed.</p>	<p>1) Inspect and maintain 3 bio-retention tree wells on State Street.</p> <p>2) Inspect and maintain the rain gardens in Coakley and Pannaway neighborhoods.</p> <p>3) Inspect and maintain bio-retention tree boxes at 155 Parrot Ave (Middle School):</p> <p>4) Inspect and maintain rain garden at Portsmouth High School.</p> <p>5) Coordinated with Pease Development Authority and private business (Lonza) to perform maintenance and cleaning of drainage structures, drainage swales, and plunge pool(s) that discharge into the Hodgson Brook.</p>	<p>1) Inspect and maintain trees in tree boxes.</p> <p>2) Perform routine maintenance as necessary. Add to Adopt a Spot program with guidance from Candace J. Dolan of the Hodgson Brook Restoration Project.</p> <p>3) Inspect and maintain trees in tree boxes.</p> <p>4) Maintenance performed by Students at Portsmouth High School.</p> <p>5) To continue improvements to Hodgson Brook and the watershed by conducting routine maintenance of the stormwater drainage system that discharges into the brook.</p> <p>Continue to incorporate structural BMPs and LID into construction projects throughout the City as appropriate.</p>

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<p><b>5.B.</b> Improve the quality of stormwater runoff through inspection/follow-up/enforcement of private stormwater management plans.</p> <p>DPW</p>	<p># of inspections / contact with / enforcement action taken with entities of private stormwater management plans</p>	<p>Build in-house program to manage the oversight of stormwater management plans in existence / approved by Planning Dept.; track stormwater management activities and follow up action as appropriate. The City has a program layer in VUEWorks to manage City owned stormwater devices.</p>	<p>Locate and develop an inspection plan for private stormwater devices. Develop a layer in VUEWorks to manage the oversight of privately owned stormwater management devices.</p>

**6. GOOD HOUSEKEEPING**

The Permittee must develop and implement a program with a goal of preventing and/or reducing pollutant runoff from municipal operations. The program must include an employee training component, including, at a minimum, maintenance activities for parks and open space, fleet and building maintenance, new construction roadway drainage and stormwater system maintenance. During the implementation of the stormwater management program, the Permittee must address recharge and infiltration for the minimum control measures as well as reasons for not implementing.

<b>BMP / ID Responsible Party</b>	<b>Measurable Goal</b>	<b>Progress on Goal(s)</b>	<b>Planned Activity for calendar year 2014*</b>
<p><b>6. A.</b> Reduce the amount of nutrients and sediments entering receiving waters through education of municipal employees about spill prevention and control, vehicle washing, lawn activities, etc.</p> <p>DPW</p>	<p># of in-house training sessions held and number of attendees.</p>	<p>DPW employees renewed Green Snow Pro certifications.</p>	<p>Continue to host and provide training for employees as appropriate and opportunities present.</p>
	<p># of maintenance / inspection / cleanings of City's structural stormwater units.</p>	<p>Biannual inspection of stormwater treatment units.</p>	<p>Continue maintenance program of structures in accord with manufacturers' specifications.</p>

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<p><b>6. B.</b> Reduce the amount of nutrients and sediments entering receiving waters through mechanical and operational means.</p>	<p>Storm/Sanitary Sewer Separation Quantify separation of sewers.</p>	<p>1) Approximately 6,160 linear feet of new stormwater drain pipe was installed as part of CSO projects in the Richards Ave., Rockland St., Broad St., Cass St., Brewery Ln., Albany St., and Marcy St. areas.</p> <p>Worked with homeowners to connect sump pumps and other stormwater connections (roof drains, floor drains, etc.) to the new drainage systems.</p> <p>2) 1,400 linear feet of new stormwater drain pipe is installed as part of the CSO project on Aldrich Road.</p>	<p>1) Continue with Lincoln Area Sewer Separation Contract 3C to reduce amount of stormwater going to WWTP; eliminate existing combined sewer lines in City Right-of-Way, and reduce eliminate IDDE sump pumps from residential housing within construction area; install 5,500 LF of sewer main pipe and 6000 LF of drainage main pipe.</p> <p>2) Complete Aldrich Road Sewer Separation project.</p>

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<p><b>6. B.</b> Reduce the amount of nutrients and sediments entering receiving waters through mechanical and operational means.</p>	<p># of storm drains fitted with storm drain sacks</p>	<p>Removed approximately 1 cubic yard of debris from 10 FABCO storm drain sacks and one catch basin filter in the downtown business district as part of an ongoing pilot project.</p>	<p>Monitor the effectiveness of the storm drain sacks and continue to perform routine maintenance.</p>
	<p>City to identify critical catch basins and frequency for cleaning.</p>	<p>Based upon inspection and cleaning tracking records through VUEWorks catch basin structures identified for regular cleaning were postponed to 2014.</p>	<p>Continue to use data base to optimize stormwater program.</p> <p>Based on field observations and conditions of the stormwater system a list of identified critical basins for regular cleaning to be developed.</p> <p>Presently the following areas have been identified:  Downtown  Miller Ave – b/w Lincoln Ave &amp; South St  Aldrich Rd at Boss Ave  Bartlett St at Islington St  Maplewood Ave at Fairview Dr.</p>
		<p>Continue to document the cleaning and inspections of drainage structures throughout the City with the use of VUEWorks.</p>	<p>Provide training as needed on use and data entry of forms; ensure users are utilizing tools provided to them in the field.</p>

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<p><b>6. B.</b> Reduce the amount of nutrients and sediments entering receiving waters through mechanical and operational means.</p>	<p>Miles of City streets swept.</p>	<p>All of Portsmouth's streets were swept twice, commencing May 2013 until completion Oct 2013. Approximately 160 tons of street sweepings were disposed of. Street sweeping 6 days/week in the downtown area commenced May 2013. Area of sweeping encompasses from Court St., to Middle St., to Marcy St., and Deer St.; and the 7 public parking lots.</p> <p>A second sidewalk sweeper was purchased by the City in the fall of 2013 and will be activated during the spring of 2014 to help reduce debris entering the stormwater system and to improve stormwater quality.</p>	<p>Continue street and sidewalk sweeping program.</p>
	<p>Implement BMPs at snow disposal collection site.</p>	<p>Winter 2004/2005 a site was designated for temporary storage of snow pursuant to the City snow removal operations. The area is enclosed with silt fence and hay bales; snow is stored at least 25' from high water mark; debris in snow storage area is cleared prior to delivering snow to storage area; all subsequent debris accumulated in snow storage area is cleaned and disposed of. There are no wells at the snow storage collection site.</p>	<p>Continue maintaining the site and using for snow disposal.</p>
	<p>City to incorporate stormwater treatment units in long term control plan/separation project.</p>	<p>Monitor the new sediment trap installed and connected to new and existing catch basins on Clough Drive, Brackett Road, and Haven Road.</p>	<p>Monitor the sediment trap and clean when appropriate in order to ensure sediment is not escaping from the trap into the surface water at Little Harbour.</p>

<b>BMP / ID Responsible Party</b>	<b>Measurable Goal</b>	<b>Progress on Goal(s) Permit Year 5</b>	<b>Planned Activity for calendar year 2014*</b>
<p><b>6. B.</b> Reduce the amount of nutrients and sediments entering receiving waters through mechanical and operational means.</p>	<p>Number of activities the DPW coordinates or conducts to clean up public lands of debris / pollutants around sensitive watersheds/water bodies.</p>	<p>Coordinated effort between the City and the Blue Ocean Society to clean litter on Pierce Island. Throughout the year, volunteers organized and took part in cleaning debris on Pierce Island. An invasive plant removal project was held by Timberland employees on 3/16/13 and the annual cleanup event was held on 4/20/13. A substantial amount of litter was removed from the area and kept out of City storm drains and open water bodies.</p> <p>(See #1D)</p>	<p>Continue to support initiatives.</p>
<p><b>6. C.</b> Reduce the amount of hazardous waste being disposed of inappropriately through programs/services, education of municipal employees and local residents.</p>	<p><b>i.</b> The number of household hazardous waste collection events and the volume (i.e. gallons) of household hazardous waste disposed (in accord with hazardous waste regs. and diverted from the landfill).</p>	<p>Household Hazardous Waste Events held May 4th &amp; October 19<sup>th</sup>, 2013 – a total of 553 cars attended the events and over 6,100 gals of hazardous waste was collected.</p> <p>The Portsmouth Police Department has acquired a secure drop box for prescription drugs. The box is accessible 24 hours a day and the donation is anonymous.</p> <p>Two drug take back events held in April and October by the Portsmouth Police Department yielded 327.5 pounds of prescription drugs.</p>	<p>Hold two Household Hazardous Waste Collections in 2014.</p>