

# *Town of Hampton*



June 26, 2017

Jeff Andrews  
Wastewater Engineering Bureau  
New Hampshire Department of Environmental Services  
P.O. Box 95  
Concord, NH 03302-0095

RE: **EPA NPDES Permit Number: NHR041038**  
**Hampton, New Hampshire**

Dear Mr. Andrews;

Please find attached our submittal addressing the required NPDES Phase 2 Small MS4 General Permit Annual report for the time period covering May 1, 2016 to April 30, 2017. We have made an attempt with this year's report to include specific information that quantifies our efforts and the costs associated with those efforts.

I have emailed this report to you earlier today as well as to the EPA at their requested address of [stormwater.reports@epa.gov](mailto:stormwater.reports@epa.gov). Please feel free to call me should you have any questions or comments regarding the report.

Jennifer L. Hale, PE  
Deputy Director of Public Works

Encl: MS4 Report for 2016-2017

Cc Chris Jacobs – Director of Public Works (email)  
Fred Welch – Town Manager (email)  
Glenda Velez – EPA (email)

**Municipality/Organization:** Town of Hampton, New Hampshire

**EPA NPDES Permit Number:** NHR041038

**Annual Report Number**

**& Reporting Period:** May 1, 2016 – April 30, 2017

**Submitted to:**

Ann Herrick

U.S. Environmental Protection Agency

1 Congress Street, Suite 110 (CIP)

Boston, MA 02114-2023

New Hampshire Department of Environmental Services

Water Division

Wastewater Engineering Bureau

P.O. Box 95

Concord, NH 03302-0095

## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

**Contact Person:** Mrs. Jennifer L. Hale, PE      **Title:** Public Works Deputy Director

**Telephone #:** (603) 926-3202

**Email:** jhale@town.hampton.nh.us

**Mailing Address:** 100 Winnacunnet Road, Hampton, NH 03842

#### Certification:

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

**Signature:**

**Printed Name:** Mr. Frederick W. Welch

**Title:** Town Manager

**Date:**

6/30/17

## **Part II. Self-Assessment**

*Self-Assessment Review of compliance with permit conditions:* The Town of Hampton is complying with the General Permit conditions. Compliance with Part 1.C is presented herein. Compliance with Part 1.D of the General Permit is presented in Part III.7 of this Annual Report.

### Compliance with Part 1.C of the General Permit: Discharges to Water Quality Impaired Waters

The Town of Hampton discharges stormwater that contributes to the impairment of three waterbodies that are listed on the Draft 2008 303(d) list: Taylor River (NHEST600031003-03, NHEST600031004-02-02), Hampton Falls River (NHEST600031004-01-01), and Hampton/Seabrook Harbor (NHEST600031004-09-06). Wet weather discharge (including stormwater) is listed as the source of impairment for all three waterbodies.

The pollutants of concern related to the impairment of these three water bodies include dioxin, mercury, PCBs, and bacteria. The sources of the dioxin, mercury, and PCBs have not been definitively identified and NHDES initial assessments indicate the sources are more regional (e.g., atmospheric deposition) than local. (NHDES 2004). BMPs that will collectively control the discharge of these pollutant(s) of concern include a combination of regular street sweeping (BMP 6C) and catch basin cleaning (BMP 6D) through the removal of contaminated sediment and the identification of illicit discharges. A Total Maximum Daily Load (TMDL) Report has been issued for bacteria for Hampton Harbor. BMPs to address bacteria are presented in Part III of this annual report as Item 7.

NHDES 2004: TMDL Study for Bacteria in Hampton Harbor, May 2004. NHDES-R-WD-03-32

## **Part III. Summary of Minimum Control Measures**

The following table presents the Town of Hampton's five-year plan and associated BMPs. The Table addresses the following items:

*Assessment of appropriateness of selected BMPs:* The BMPs selected are still appropriate for the Town except where noted in the Table.

*Assessment of Progress towards achieving the measurable goals:* All progress is described in Part III and summarized in Part IV.

*Summary of results of any information that has been collected and analyzed:* Part IV summarizes information collected and analyzed.

*Discussion of activities for the next reporting cycle:* The entire five-year plan is presented in the Table. Activities to be completed in the next permit year will depend on the requirements of the next General Permit, which has not yet been issued. An audit by U.S.EPA on March 4 and 5, 2008 identified several areas that the Town plans to incorporate into its next 5-year plan. The attached table describes these items briefly. It should be noted that as of April 30, 2017 the Town had not received a formal summary of audit findings from the U.S.EPA. Therefore the items shown in the Table describe only items that were received during the informal debrief provided by U.S.EPA on March 5, 2008.

*Discussion of any changes in identified BMPs or measurable goals:* Any changes to goals or BMPs for previous permit years are presented in the Table. Note that all of the BMPs that previously identified the Public Works Operations Manager have been changed to reflect that the Public Works Director is the responsible party. This change was made because the Town of Hampton eliminated the position of Operations Manager.

*Reference to reliance on another entity for achieving any measurable goal:* The Table presents the party responsible for the measurable goal. The Town of Hampton has developed a stakeholder group to assist in fulfilling its measurable goals.

## 1. Public Education and Outreach

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Measurable Goal(s)</b>	<b>Responsible Dept./Person Name</b>	<b>Progress on Goal(s) – Permit Year 13</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Cycle 2017 to 2018</b>
1A	General Public Education Brochure – develop or use an existing brochure from another entity that addresses potential pollutants, effects of potential pollutants, and alternative actions by public.	<p>YEAR 2 Complete development and production of brochure.</p> <p>YEAR 3 Distribute brochures to selected households and public areas in the urbanized area.</p>	<p>Representatives from: Winnacunnet High School and Aquarion Water Company</p> <p>Public Works Director</p>	<p>No action required.</p> <p>This BMP was completed in Permit Year 3.</p> <p>Added Pet Waste Flyer to Website.</p>	<p>No action required.</p> <p>This BMP was completed in Permit Year 3.</p> <p>Continue to grow website with information.</p>
Revised (PY3)		Distribute brochures at locations that are readily available to all residents in the urbanized area.			
1B	Media Message – provide public education message on Channel 22 and in Town Report for stormwater education.	<p>YEAR 1 Develop messages/ information.</p> <p>YEARS 2-5 Begin broadcasting message.</p>	Public Works Director	<p>The Winnacunnet High School Science Club created a door hanger that was posted on the DPW web page. The door hanger directs interested parties to a separate web page with additional information.</p> <p>A new stormwater video link is attached to the DPW – Sewer and Drains page of the website and page has been revised.</p>	To run the public service announcement Storm Water Runoff on local cable channel 22 two times a year.
Revised					

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Measurable Goal(s)</b>	<b>Responsible Dept./Person Name</b>	<b>Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)</b>	<b>Planned Activities – Next Permit Cycle 2017 to 2018</b>
1C	Classroom Education – perform K through 12 education of stormwater impacts and actions public can take. Implement one program per year.	YEAR 1 Coordinate educational programs by developing programs.  YEARS 2-5 Implement one program per year.	Representative from Winnacunnet High School (with support from other municipal and not-for-profit organizations).	Stormwater education is part of the freshman biology curriculum at Winnacunnet High School.  The School's Science Club performed stenciling along Ashworth Ave. in the spring of 2008/2009. Stencils are obtained through UNH's cooperative Extension. Hampton Public Works Department provided the Science Club with stenciling locations.	
Revised					
1D	Continue Integrated Pest Management Program at Schools.	YEARS 1-2 Continue Program; implement recommendations.	Schools Facilities Manager	No action required.  This BMP was completed in Permit Year 3.	
Revised				The EPA audit on March 4 and 5, 2008 recommended discussions with Parks and Recreation Department to see if they employ IPM.	
1E	Continue Planning Board Review of Site Triggering of Aquifer Protection Ordinance.  Revised PY3.  The title of this BMP has been changed to better reflect the intent of the BMP.	YEARS 1-5 Continue enforcement.	Planning Board and Building Inspector	Three were no projects proposed within the Aquifer Protection District during this permit period. Construction continues on the 86 Woodland Road Subdivision project to assure conformance with the ordinance and approvals.	Continue to review all development in the Aquifer Protection District for compliance with the Aquifer Protection Ordinance.
Revised					

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Measurable Goal(s)</b>	<b>Responsible Dept./Person Name</b>	<b>Progress on Goal(s) – Permit Year 13</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Cycle 2017 to 2018</b>
1F	Pet Waste Management	YEAR 2 Identify target locations.  YEAR 3 Install dispensers.	Public Works Director	No action required.  This BMP was deleted in Permit Year 1.	Continue to maintain the pet waste stations that we have up including ordering new bags and working with the recreation department staff.
Deleted (PY1)	This BMP was deleted (see Annual Report Permit Year 1 for details).				

### 1a. Additions

1G	Additional Public Education and Outreach.	YEAR 4-5 Track public education items that were not part of the original 5-year plan.  This BMP was added in PY4.	Municipal and not-for-profit organizations.	<p>The Hampton Conservation Commission has formed two groups: an Open Space/Conservation Land, and an Innovative Land Use Group. Both groups are assisting the Town with BMP 5A.</p> <p>The Innovative Land Use Committee is working on a public outreach program related to stormwater management. In particular, a stormwater seminar for Hampton Town Boards and Staff was hosted by the Hampton NROC and supported by the NH NROC and the NH Estuaries Project. Presentations on “Why Stormwater Matters”, stormwater technologies, and stormwater regulations in the Town of Hampton were given. The seminar took place on February 12, 2009.</p>	Continue to grow website with information.
Revised					

## 2. Public Involvement and Participation

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle 2017 to 2018
2A	Follow Town Public Notice Requirements.  Whenever applicable during implementation of Stormwater management Program, public notice requirements will be met.	YEARS 1-5 Observe all requirements.	Planning Board	No action required.  No public notice requirements were triggered during Permit Year 6. In 2014 we formed a Plan Review Committee for the purpose of technical review of projects prior to their being presented to the planning board. This PRC has been effective in getting improvements to how we manage stormwater.  Continued review of all stormwater management systems through PRC and review and approval of Operation and Maintenance Plans.	Continue to follow public notice requirements as necessary.  The PRC will continue to meet and review projects so that they continue to implement stormwater management practices and post construction maintenance & reporting.  Looking to review the Town's Stormwater Regulations
Revised					
2B	Initial SWMP Development. Invite specific potentially interested parties to join stakeholder group responsible for the development of this Stormwater Management Program (SWMP).	YEAR 1 Invitations extended during plan development.	Public Works Director	No action required.  This BMP was completed in Permit Year 1.	
Revised					
2C	Quarterly Stakeholder Meetings utilize existing citizens/ stakeholder groups to consider initiatives, such as a drain stenciling program, or “Adopt a Stream” Program.	YEAR 1 Establish Stakeholder Group.  YEARS 1-5 Meet on a quarterly basis to implement SWMP.	Public Works Director	Stakeholder meetings were held on July 21, 2008 and April 3, 2009 to discuss progress on the Stormwater Management Plan. The Town has attended meetings of our regional Stormwater Coalition so that we can share information, updates and learn from surrounding communities. The meetings are typically held at the Dover Public Works Facility.	The Town will continue to attend meetings of our regional Stormwater Coalition. A major component will be to review the new stormwater permit requirements and share resources including the development of the required Operation and Maintenance Plans.



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Revised (PY4)		Stakeholder meetings will be held semi-annually.		Continue to hold meetings semi-annually.	
2D	Assist with Seacoast Beach Cleanup Day and Earth Day activities.	YEARS 1-5 Participate in events annually.	Public Works Director	<p>The Town of Hampton, the NHDES Beach Program, and Hampton Beach State Park have combined efforts to promote a healthy beach quality.</p> <p>The Blue Ocean Society currently coordinates volunteers for the Adopt-a-Beach Program. The annual Coastal Cleanups were held in the fall. All beach areas were adopted and cleaned by volunteers throughout the year. The Town of Hampton assists with the cleanups through acceptance of the waste materials collected.</p> <p>Local residents volunteer to clean up the beach areas and notify us to pick up the bags. We continue to thank them for the works.</p>	<p>Hampton Beach is a Flagship Beach. (Flagship beaches are beaches that will lead by example and serve as models for enhanced cleanup, monitoring, and notification of closure). The Town of Hampton, the NHDES, and Hampton Beach State Park have maintained future goals to:</p> <ul style="list-style-type: none"> <li>• Maintain pet waste stations</li> <li>• Continue to work with the State DRED to accept beach refuse.</li> <li>• Continue to work with the State DRED to collect and accept trash container refuse and recycling.</li> <li>• Keep track of volunteer efforts and pickups</li> </ul> <p>This year there will be a Run for the Ocean 5k and Beach cleanup on June 3, 2017.</p>
Revised					

## 2a. Additions

	None				

## 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle 2017 to 2018
3A	<p>Storm Sewer System Map:</p> <ul style="list-style-type: none"> <li>Review existing information to identify all stormwater outfalls.</li> <li>Conduct a field survey to confirm outfall locations, include evaluation of drainage divides/drainage areas.</li> </ul>	<p>YEAR 1 Storm Sewer System Mapping 90% complete.</p> <p>YEARS 2-3 Field Check and revise Map.</p> <p>YEAR 4 Map 100% complete.</p> <p>YEAR 5 Evaluate potential for incorporating record keeping and inspections into GIS, evaluate micro-watersheds of drainage system, and quantify flows of potential pollution sources.</p>	Public Works Director	<p>During Permit Year 6, a reference book within the GIS system was created to divide the Town into sections. This was done to facilitate the tracking of catch basin cleaning. Ultimately, this program will provide the PWD with mapping outlining the catch basin cleaning rotations.</p> <p>2012 - We have purchased AutoCADD software and installed it on the Town computers. Our intention is to capture the data from plans that go through the planning board or designed by Consultants and add this data to our data base. Also worked with Normandeau Assoc. of Bedford, NH to locate sewer and drainage structures and update our database. Cartographic Associates of Littleton, NH was hired to assist the PWD in the use of the new data and getting the data accessible to field</p> <p>The Town hired a new engineering technician whos primary responsibility</p>	<p>Continue to get site plans and construction plans in digital format and add the information to our data base.</p> <p>Continue to installing a signage and update our photographs of the approximately 160 outfalls of all types.</p> <p>Implementation of Asset Management Software</p>

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Revised				will be to manage our Asset Management. A RFP was issued looking for a company to provide the software platform to assist with Asset Management, interviews were conducted and a selection was made.  Ongoing edits were made to the current GIS database. Applicants/Developers are required to provide digital as-builts to add to our database.	
3B	Sewer Ordinance Revision – revise sewer ordinance to ban non-stormwater discharges to storm sewer system.	YEAR 1 Initiate ordinance revision process.  YEAR 2 Complete enactment of necessary rules.	Public Works Director	No action required.  This BMP was completed in Permit Year 4; however the Town is considering adopting a more comprehensive regulation for the entire storm drainage system to address IDDE and Post Construction issues. (See BMP 5A)	Continue to monitor discharges to the storm sewer system.  Modify the sewer regulations using some of the drafted regulations and pending requirements.  Modify the Stormwater Regulations to include additional water quality requirements as well as revisions for consistency to the Town’s Site Plan and Subdivision Regulations and new MS4 permit.
Revised				An updated sewer regulation has been drafted but has not been adopted by the Town.	

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3C	IDDE Tracking Program: <ul style="list-style-type: none"> <li>Utilize scheduled catch basin cleanings and outfall inspections as method of detecting illicit discharges.</li> <li>Develop mechanism to track enforcement actions.</li> <li>Implement enforcement and tracking of revised rules.</li> </ul>	YEAR 1 Modify existing form for reporting suspicious catch basin residue and develop door hanger to inform public that an illicit discharge was detected in the area.  YEAR 2 Develop a mechanism to track enforcement.  YEARS 3-5 Implement enforcement (document number of enforcement actions).	Public Works Director	<p>The catch basin crews continue to document any illicit discharges on the Catch basin cleaning form. No illicit discharges were identified during catch basin cleaning for this year.</p> <p>In addition, the Town continues to look for illicit connections during road reconstruction or other infrastructure projects.</p> <p>The citizen call-in hotline did not result in any identified illicit discharges. The Town uses its general complaint system to log citizen call-ins.</p> <p>A large portion of the infiltration into the sewer system is due to rainwater and tide water. To this effort we have revised our construction standards to require a Pamrex sealed cover.</p> <p>Underwood Engineers completed an Inflow and Infiltration Study dated September 5, 2014 of the sewers in the beach area.</p> <p>The High Street and Lafayette Road intersection drainage improvements were completed and no IDDE's were found.</p>	<p>Continue to budget and work to implement rehabilitation strategies identified in the Inflow and Infiltration Study.</p> <p>Line the sewer main that runs through the marsh between Johnson Avenue and Susan Lane to remove infiltration.</p> <p>Replacement of old drainage structures along Lafayette Road as part of the Blueprint for a Beautiful Downtown.</p> <p>Continue to monitor projects as implemented to remove and found illicit discharges.</p>
Revised					

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3D	IDDE Education Program – educate municipal employees so that they can recognize, trace, and report illicit discharges when observed	YEAR 1 Identify employees to be trained and develop training program and incorporate training into municipal schedule. YEAR 2 Train 100% of Sewer and Drain Public Works employees and Building Inspector.  YEARS 3-5 Repeat Training as necessary.	Public Works Director	No IDDE training was conducted this year.	New staff will be trained to recognize, trace and report illicit discharges as they are directed to work with the sewer and drains division.
Revised					
3E	IDDE Hotline Publicity - provide opportunity for citizens to contact officials when an illicit discharge is observed.	YEARS 1-5 Publicize on Channel 22 and include on door hanger.	Public Works Director	The Department of Public Works takes all calls from citizens including those that would report and illicit discharge.	
Revised					

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3F	Continue annual household hazardous waste collection days, including component of stormwater protection in advertisement.	YEARS 1-5 Complete Household hazardous waste collection days on a yearly basis.	Public Works Director	House Hold Hazardous Waste Collection Day was June 4, 2016.  This BMP also helps fulfill BMPs 1A, 1B, and 1C because public employees, businesses, and the general public will become knowledgeable of the hazards of illegal discharges through the public outreach and educational programs associated with the HHW Collection.	This year Hampton will host the HHWCD with the Towns of New Castle and North Hampton on June 10, 2017  The event will be posted on the Towns web site, on the Public Works web site and on portable reader boards set up at the Transfer Station and other locations around town.  Flyers containing educational information will be distributed at the collections site, posted on Channel 22 and left for distribution at the Town Hall, Transfer Station and Public Works Department.
Revised					

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3G	Evaluate IDDE Program – at the end of each year, non-stormwater discharges will be assessed to determine if they have impacted the storm sewer system, and if necessary, a revised ordinance will be initiated to address the issue.	YEARS 1-5 Evaluate and initiate ordinance revision if necessary.	Public Works Director	<p>Illicit discharges are looked for during catch basin and pipe cleaning.</p> <p>In 2016, 679 CBs and +/-19,000 LF of pipe were inspected. Also, 389 LF of drain lines were cleaned.</p> <p>In 2016, 20 ft. of piping was replaced.</p> <p>No illicit discharges were identified during catch basin cleaning.</p>	During cleaning operations our staff will be directed to continue to look for evidence of Illicit connections and the discharges from them.
Revised					

### 3a. Additions

	None				

#### 4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle 2017 to 2018
4A	<p>Revise Ordinances:</p> <ul style="list-style-type: none"> <li>Review existing ordinances.</li> <li>Develop revised ordinance with the use of public participation.</li> <li>Include sanctions in the ordinance.</li> <li>Include a site plan review in the ordinance.</li> <li>Ensure ordinance includes requirements for construction site operators to implement a sediment and erosion control program that includes BMPs that are appropriate for the conditions at the construction site.</li> <li>Publicize revised ordinance.</li> <li>Activate, implement, and enforce revised ordinance.</li> </ul>	<p>YEAR 1 Generate summary memorandum of status of existing ordinance with recommended changes.</p> <p>YEAR 2 Revise ordinances for construction activities.</p> <p>YEAR 3 Adopt Changes (include Public Notice Requirements).</p> <p>YEARS 4-5 Implement and enforce ordinance.</p>	Planning Board	<p>The Site Plan Review Regulations and the Subdivision Regulations were amended in Permit Year 3 to include language on construction runoff control.</p> <p>Sediment and erosion control plans are reviewed as part of the TRC process. Applicants are required to provide a Stormwater Management Plan as well during and after construction BMPs.</p> <p>The building inspectors provides enforcement if necessary.</p> <p>In the past year the following inspections were conducted:</p> <ul style="list-style-type: none"> <li>Woodland Road Subdivision</li> <li>Drakeside Road homes (2 projects)</li> <li>6 Highland Ave Development</li> <li>Bernie's Beach Bar Expansion</li> <li>1088 Ocean Blvd. Condos</li> </ul>	<p>The U.S.EPA audit on March 4 and 5, 2008 identified that public education materials should be provided to smaller developers to ensure construction run-off control. Staff continues to monitor development and provide assistance on correction actions if necessary.</p> <p>Continued site inspections are anticipated at:</p> <ul style="list-style-type: none"> <li>230 Exeter Homes (Exeter Road)</li> <li>Cornerstone Elderly Care Facility (Exeter Road)</li> <li>Beachwalk Condominiums (High Street)</li> <li>Proposed Hotel (Exeter Road)</li> <li>Woodland Road Expansion Subdivision</li> <li>Frenchies (Ashworth Ave)</li> <li>180 Ashworth Condominiums (Ashworth Ave)</li> </ul>
Revised					



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4B	Training/Inspection <ul style="list-style-type: none"> <li>initiate training for inspector(s) on new ordinances.</li> </ul>		Building Inspector	New ordinances are provided to each department to be places within the Hampton Code and Ordinance Book	Continue review of ordinances and make modifications as necessary.
Revised					
Deleted (PY3)	The Town hires third party inspectors to review construction activity for erosion/sediment control. Because the building inspectors do not do this review, they will not be trained.				

#### 4a. Additions

	None				

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

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle 2017to 2018
5A	Revise Existing Ordinances: <ul style="list-style-type: none"> <li>Review existing ordinances.</li> <li>Develop revised ordinance with the use of public participation.</li> <li>Ensure ordinance includes procedures to ensure adequate long-term operation and maintenance of BMPs.</li> <li>Publicize revised ordinance.</li> <li>Initiate training for inspectors</li> <li>Activate, implement, and enforce revised ordinance.</li> </ul>	YEAR 3 Generate summary memorandum of status of existing ordinance with recommended changes.  YEAR 4 Revise ordinances.  YEAR 5 Implement and enforce ordinance.	Planning Board	<p>The Town of Hampton's Planning Board Review consultant has continued to assist the Town in reviewing existing Site Plan and Subdivision Regulations which will act as the basis for revisions.</p> <p>The Town and Conservation Commission have received a grant from NROC to identify Low Impact Design (LID) techniques that may apply to development in Hampton, NH. The Town will use the grant money to incorporate the technical references into the Site Plan and Subdivision Regulations. The Town is also reviewing the New Hampshire Stormwater Manual and may incorporate selected components.</p> <p>The Town continues to require annual inspection and maintenance reports of any site receiving Planning Board approval. We received 20 reports as part of the PB requirements for 2016.</p>	<p>The Planner and DPW are keeping logs of sites that need to submit inspection and maintenance reports.</p> <p>We have 34 sites that have a planning board condition that requires post-construction inspection reports and will be adding new sites in 2016.</p>
Revised					
Revised					
Revised					

### 5a. Additions

	None				

## 6. Pollution Prevention and Good Housekeeping in Municipal Operations

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Measurable Goal(s)</b>	<b>Responsible Dept./Person Name</b>	<b>Progress on Goal(s) – Permit Year 13</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Cycle 2017 to 2018</b>
6A	Municipal DPW SWPPP for Industrial Activities under the Multi-Sector General Permit.	YEAR 1 PWD Complex done by 3/10/03.	Public Works Director	No action required.  This BMP was completed during Permit Year 1.	
Revised					
6B	Municipal Operations: <ul style="list-style-type: none"> <li>Identify (list) all municipal operations</li> <li>Conduct site reconnaissance visits to each municipal property to identify current BMPs used.</li> <li>Identify and select applicable future BMPs for pollution prevention and implement recommended BMPs.</li> </ul>	YEAR 1 Identify municipal operations and BMPs.  YEAR 2 Review/Inspect Municipal Operations.  YEARS 3-5 Begin Implementation of recommended changes.	Public Works Director	No action required.  This BMP was completed during Permit Year 3.	
Revised					

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6C	Continue street sweeping/litter control on beach area roads on a daily basis, other areas annually.	YEARS 1-5 Continue street sweeping.	Public Works Director	Street Sweeping of the entire Hampton Beach main thoroughfares occurred daily from Memorial Day to two weeks after Labor Day in 2016. Street sweeping of the remainder of the Town of Hampton began in April 2017, and will continue until all streets and municipal parking lots have been cleaned.	We will continue the program as described on the left for this year.  Street Sweeping of the entire Hampton Beach main thoroughfares is planned daily from April 15 to two weeks after Labor Day in 2017. Street sweeping of the remainder of the Town of Hampton is planned for to begin in April 2018, and will continue until all streets and municipal parking lots have been cleaned.
Revised					
6D	Continue cleaning catch basins within urbanized area on a five-year rotation.	YEARS 1-5 Continue catch basin cleaning.	Public Works Director	The Town conducts catch basin cleaning on a 5-year rotation. Catch basin cleaning begins each year in March. The Hampton Beach area is given a high priority on scheduled cleaning of catch basins and storm drain lines such that all catch basins located immediately upstream of an outfall that discharges to the Atlantic Ocean or westerly to Hampton Harbor are cleaned annually. In addition, catch basins found to be problematic are cleaned annually.  In 2016, we cleaned 679 basins.	We will continue our program of cleaning basins starting with those in the beach area first.  The Town plans on cleaning 350 or more of our basins and cleaning approximately 500 linear feet of drain piping.
Revised (PY4)	Hampton Beach – defined as an area north of Hampton Harbor Bridge on Route 1A and all areas east and west of Route 1A to a point northerly known as Boar’s Head. This area comprises approximately 200 catch basins and 12,000 LF of drain lines. It should be noted NH DOT has responsibility for Ocean Boulevard and maintaining three dozen or so catch basins. This area because of sensitivity to pollutants will be given a high priority on scheduled cleaning of storm drain lines and catch basins. It is the community’s intent to clean any catch basins immediately upstream of an outfall to the Atlantic Ocean or westerly to Hampton Harbor, annually. Additionally those found to be problematic as contributing larger amounts of pollutants and grit will also receive annual cleaning. Interior drain lines and catch basins will be inspected and cleaned on a two year rotation. The community will continue a plan of catch basin “stenciling” and inspections to raise public awareness and guard against disposal of pollutants.				

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Measurable Goal(s)</b>	<b>Responsible Dept./Person Name</b>	<b>Progress on Goal(s) – Permit Year 13</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Cycle 2017 to 2018</b>
6E	Pursue funding to replace catch basin cleaning apparatus with updated equipment to improve efficiency and frequency of cleaning	YEAR 1 Pursue funding.  YEARS 2-5 Increase frequency and efficiency when/if apparatus purchased.	Public Works Director	The vehicle maintenance staff continues to maintain the Vacuum Truck and Jet Truck each year. In 2012 into 2013 we had added a hatch to the vacuum box to allow us to clean out an inaccessible compartment.	We plan on making critical repairs to the Vacuum Truck to keep it working another few years. At present the department is now looking to outsource the cleaning and inspection due to the costs associated with replacement.
Revised					
6F	<ul style="list-style-type: none"> <li>Continue Conveyance O&amp;M Program:</li> <li>Continue existing program for maintenance and replacement.</li> <li>Recommend any changes.</li> <li>Review and Revise program as needed and implement changes.</li> </ul>	YEAR 1 Continue existing maintenance program, review at year-end and prioritize recommended changes.  YEARS 2-5 Review and Revise program as necessary.	Public Works Director	<p>The Town of Hampton budgets storm drain repairs during the annual budgeting process. Most of the repairs and maintenance are completed due to observations during other utility work. Repair to catch basins are completed on an as-needed basis.</p> <p>In 2016, a series of drain lines along Falcone Circle, Landgdale Ave and the surrounding area were inspected via camera inspection (+/-19,000 LF). This information was used to determine the condition and future detailed inspection needs for corrugated metal drainage piping (CMP).</p>	<p>The department continues to evaluate and replace degraded CMP drainage systems. In 2017, the drainage within Falcone Circle and Langdale Ave. are proposed to be lined.</p> <p>In Early 2018 Drainage will be replaced within Lafayette Road between High Street and Winnacunnet Road.</p>
Revised					

**6a. Additions**

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Measurable Goal(s)</b>	<b>Responsible Dept./Person Name</b>	<b>Progress on Goal(s) – Permit Year 13</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Cycle 2017 to 2018</b>
6G	PPGH Training	YEAR 5 Train Public Works Employees in PPGH	Public Works Director	Pollution Prevention and Good Housekeeping are part of the daily operations of staff at the DPW.	

## 7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>

The NHDES finalized the TMDL Report for the Hampton/Seabrook Harbor in May 2004. The TMDL for Hampton Harbor is the calculated quantity of bacteria that could be discharged each day to the Harbor and still allow the Harbor to meet its water quality criteria. The TMDL has three components: (1) the Waste Load Allocation (WLA), (2) the Load Allocation (LA), and (3) a Margin of Safety (MOS). The WLA portion of the TMDL is the loading that will be allowed from various point source discharges to the harbor, including the Hampton Waste Water Treatment Facility (WWTF), and the Hampton and Seabrook storm drains that are permitted under the Stormwater Phase II program. The LA is the loading that is allowed from various non-point sources, including natural background concentrations of bacteria. The MOS for the Hampton Harbor TMDL is 10 percent of the total TMDL.

The WLA portion of the TMDL is not broken down by point source dischargers, rather a single WLA is applied to the combined point source discharges. The following Table, taken from the 2004 TMDL document, shows a summary of the existing bacterial loads currently discharging into Hampton/Seabrook Harbor, the TMDL WLA, LA and MOS, and the percent reduction needed to meet the TMDL.

Hampton/Seabrook Harbor Bacteria TMDL  
May 2004  
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Table 21: TMDL Calculation

Bacteria TMDL Calculation for Hampton/Seabrook Harbor

Location	Source	Existing Loads			TMDL Calculation				Percent Reduction Needed <sup>8</sup>
		Point Sources <sup>2</sup>	Non-Point Sources <sup>3</sup>	Total Load	TMDL <sup>4</sup>	MOS <sup>5</sup>	WLA <sup>6</sup>	LA <sup>7</sup>	
Hampton Harbor	Hampton WWTF	110		1,169,834	690,382	69,038	26,577	594,767	47%
	Boat Discharges		86,957						
	Dry Weather Non-Point Sources		604,006						
	Stormwater Load	47,876	430,885						
	Total	47,986	1,121,848						

### Notes

1. Bacteria loads expressed as billion organisms per year.
2. Ten percent of the total annual stormwater load from Table 20 (Section C) was considered "point sources" ( $478,761 \times 0.1 = 47,876$ ) because the 16 Phase II MS4 pipes accounted for 10% of estimated stormwater load on 7/23/02 and 10/16/02. The Annual WWTF load (110) was taken from Table 20 (Section C).
3. Annual loads from boat discharges and dry-weather non-point sources taken from Table 20 (Section C). Non-point source stormwater load calculated as the difference between the total annual stormwater load from Table 20, Section C (478,761) and the point-source stormwater load (47,876).
4. TMDL set at annual load for dry weather conditions in Table 20, Section A ( $1891.459 \text{ bill org/day} \times 365 \text{ day} = 690,382 \text{ bill org/yr}$ ).
5. MOS set at 10% of the TMDL.
6. WLA set equal to TMDL-MOS multiplied by the ratio of total loads from point sources to total loads from non-point sources ( $((47,986/1,121,848) \times (690,382 - 69,038)) = 26,577$ ). Within the WLA, 2,810 bill org/yr is allocated to the Hampton WWTF which has a maximum permitted load of 2,810 bill org/yr ( $7.7 \text{ bill org/day} \times 365 \text{ day} = 2,810 \text{ bill org/yr}$ ). This method of apportioning allocations is from EPA (2001b).
7. LA set equal to TMDL-MOS-WLA.
8. Percent reduction calculated by  $1 - (WLA + LA) / \text{Total Load}$ .

The table shows the stormwater discharges from the Hampton WWTF regulated Municipal Separate Storm Sewer systems of Hampton and Seabrook contribute to the point source stormwater load of bacterial discharges of 47,876 billion organisms per day. This quantity will need to be reduced to 26,577 (the WLA) to

allow Hampton Harbor to meet water quality standards. Combined, Seabrook and Hampton Harbor have 16 storm drains that contribute to this load. The General Permit for MS4s requires that the Town assess if their portion of the WLA is being met through implementation of existing stormwater control measures, or if additional control measures are necessary. The Town has an aggressive program of street sweeping and catch basin cleaning that will help reduce the bacterial contributions from the storm drain system.

In addition, the Town has identified the following BMP to help implement their portion of the WLA. The BMP is related to the overall implementation goal identified in the TMDL document: removing all human sources of bacteria to the estuary to the extent practicable.

The regulated MS4s are contributing only 10 percent of the bacteria from stormwater contributions. It should be noted that the TMDL identified the remaining stormwater sources are likely from tributaries and overland flow in the salt marshes. The remainder of the stormwater contributions to the existing bacterial loading are from non-point sources (and therefore have LAs, not WLAs).

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 12</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Cycle 2016 to 2017</b>
7A	Work with the NHDES to identify, trace, and remove illicit discharges in particular those contributing to human sources of bacteria.	Implementation of action items will depend upon the availability of funds.	Public Works Director and the NHDES	The IDDE program did not identify any illicit discharges. No additional work with NHDES on identification was conducted this Permit Year.  Due to Church Street Force Main Failure of 2016 the Department continues to monitor the fecal counts at the Route 10/ Tide Mill Bridge and continue to work with NHDES and monitor this Salt Marsh Area.  Replacement of the Forcemains was proposed, but did not pass for funding at the Town Meeting.	Continued observation and monitoring of the Church Street Pump Station Force Mains to assure no illicit discharges are occurring. Pressure testing and Fecal Coliform Monitoring are on-going.
Revised					
Revised					



#### Part IV. Summary of Information Collected and Analyzed

In light of the Church St. force main break, the Town of Hampton voluntarily monitors fecal coliform bacteria levels in the tidal waters of the Hampton Marsh. This, in conjunction with pressure testing the force mains will provide advanced notification if another such event should occur.

Method: IDEXX Colilert -18 using Quantitray 2000

Sampling Procedure: Samples will be taken at the boat launch area where Route 101 passes over Tide Mill Creek. When the tide allows, they will be taken as close to the bridge and main stream as is safe.

- Samples are to be taken as close to 3 Hours after high tide as work hours permit. (0700 to 500)
- Samples will be taken two nonconsecutive days each week.
- Samples will not be taken during a rain event. (Results are unreliable)
- Hampton WWTP staff will provide DES testing results by the 15th of the following month.

Contingencies: If a sample result is above 100 MPN/100 mL

1. DES will be notified (Chris Nash 603-568-6741, Tracy Wood 603-271-2001)
2. Sampling will continue on consecutive days until the results return to normal levels (>40 MPN/100 ml)
3. During this time we will work with DES to determine the cause.
4. The Town will follow up within 5 days with updates on continued results and potential causes by e-mail.

Pressure Testing: Once per quarter the town will test the pipe integrity of each of the force mains through pressure testing. Pressure will be brought to 10 psi and monitored for a period of 15 minutes. If there is no pressure drop the pipe will be considered whole.

#### Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a \*\*, which indicates response is for period covering May 1, 2016 through April 30, 2017)

##### Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed		Yes (Deputy Director)
Annual program budget/expenditures **	(\$)	(\$)120,000
Total program expenditures since beginning of permit coverage (approximate)	(\$)	(\$)4,660,000
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		Property taxes

## Education, Involvement, and Training

Estimated number of property owners reached by education program(s)		Unknown
Stormwater management committee established	(y / n)	Yes
Stream teams established or supported	(y / n)	No
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	Yes
Shoreline cleaned since beginning of permit coverage	(mi.)	3
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	1
▪ community participation **	(# or %)	Unknown
▪ material collected **	(tons or gal)	Unknown
School curricula implemented	(y/n)	No

## Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	In Review	Adopted
Regulatory Mechanism Status (indicate with “X”)					
▪ Illicit Discharge Detection & Elimination					X
▪ Erosion & Sediment Control					X
▪ Post-Development Stormwater Management					X
Accompanying Regulation Status (indicate with “X”)					
▪ Illicit Discharge Detection & Elimination					X
▪ Erosion & Sediment Control					X
▪ Post-Development Stormwater Management					X

## Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	100
Estimated or actual number of outfalls	(#)	160 +/-
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100 (with minor changes)
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	100
Outfalls inspected/screened **	(# or %)	0
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	0
Illicit discharges identified **	(#)	0

Illicit discharges identified (Since beginning of permit coverage)	(#)	0
Illicit connections removed **	(# ); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	0
% of population on sewer	(%)	81
% of population on septic systems	(%)	19

### Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	2
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100
Site inspections completed **	(# or %)	15
Tickets/Stop work orders issued **	(# or %)	0
Fines collected **	(# and \$)	0
Complaints/concerns received from public **	(#)	0

### Post-Development Stormwater Management

	(Preferred Units)	Response
Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100
Site inspections (for proper BMP installation & operation) completed **	(# or %)	15
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Yes
Low-impact development (LID) practices permitted and encouraged	(y/n)	Yes

## Operations and Maintenance

	(Preferred Units)	Response
Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1/3 yrs
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1/3 yrs
Qty of structures cleaned **	(#)	679
Qty. of storm drain cleaned **	(%, LF or mi.)	389 lf
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	Not tracked
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Beneficial Reuse @ PWD Facility
Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$273,100
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	n/a Town Staff
• Disposal cost**	(\$)	n/a Town site
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	0
• Vacuum truck(s) owned/leased	(#)	1 owned
• Vacuum trucks specified in contracts	(y/n)	N
• % Structures cleaned with clam shells **	(%)	0 %
• % Structures cleaned with vacuor **	(%)	100%

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	Once
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	Twice and daily at beach
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	Unknown
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Beneficial Reuse @ PWD Facility
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$22,468
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	n/a Town staff
• Disposal cost**	(\$)	n/a Town staff

	(Preferred Units)	Response
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	0
• Vacuum street sweepers owned/leased	(#)	1
• Vacuum street sweepers specified in contracts	(y/n)	No
• % Roads swept with rotary brush sweepers **	%	0

• % Roads swept with vacuum sweepers **	%	100%
Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	100 lbs
▪ Herbicides	(lbs. or %)	None
▪ Pesticides	(lbs. or %)	None
Integrated Pest Management (IPM) Practices Implemented	(y/n)	Yes

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used **  (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % CaCl <sub>2</sub> % MgCl <sub>2</sub> % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized **	(y/n or %)	No
Manual control spreaders used **	(y/n or %)	Yes
Zero-velocity spreaders used **	(y/n or %)	No
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/lb mi. or %)	

	(Preferred Units)	Response
Estimated net reduction or increase in typical year sand application rate **	(±lbs/lb mi. or %)	330 tons less
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100
Storage shed(s) in design or under construction	(y/n or #)	Exists
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	Yes

### Water Supply Protection

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