

MAY 1 2009

Municipality/Organization: Town of Hampton, New Hampshire

EPA NPDES Permit Number: NHR041038

**Annual Report Number
& Reporting Period:** May 1, 2008 – April 30, 2009

Submitted to: Ann Herrick
U.S. Environmental Protection Agency
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New Hampshire Department of Environmental Services
Water Division
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NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

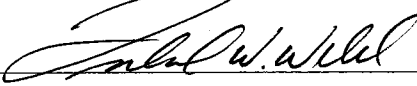
Contact Person: Mr. John Price **Title:** Public Works Director

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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: 4-26-09

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 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 303(d) list: Taylor River (NHES600031003-03, NHES600031004-02-02), Hampton Falls River (NHES600031004-03-03), and Hampton/Seabrook Harbor (NHES600031004-09-06). Wet weather discharge (including stormwater) is listed as a cause of impairment for all three waterbodies.

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

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:

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 the Table.

Summary of results of any information that has been collected and analyzed: Part IV summarizes information collected and analyzed during the five-year plan.

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 2, 2009; 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

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
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.	YEAR 2 Complete development and production of brochure. YEAR 3 Distribute brochures to selected households and public areas in the urbanized area.	Representatives from: Winnacunnet High School and Aquarion Water Company Public Works Director	No action required. This BMP was completed in Permit Year 3.	The U.S.EPA audit on March 4, and 5, 2008 recommended reviewing the Town demographics to ensure no language issues need to be addressed for public education. U.S. Census data (2000) shows that 97.6% of the population was white. All other races combined made up less than 4% of the total population. There were no other indicators in the Census data to suggest that the public education materials should be provided in alternate languages.
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.	YEAR 1 Develop messages/ information. YEARS 2-5 Begin broadcasting message.	Public Works Director	The Winnacunnet High School Science Club door hanger is posted on the DPW web page. The door hanger directs interested parties to a separate web page with additional information. No information was available pertaining to Conservation Commission stormwater videos at the time of this report.	
Revised					

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
1C Revised	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. Additional stenciling is planned for spring 2009. Stencils are obtained through UNH's cooperative Extension. Hampton Public Works Department provided the Science Club with stenciling locations.	
1D Revised	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.	The U.S.EPA audit on March 4 and 5, 2008 recommended discussions with Parks and Recreation Department to see if they employ IPM.
1E Revised	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	One site on Sherburne Drive was reviewed by the Planning Board for conformance to the Aquifer Protection Ordinance. No special variances were issued.	Continue to review all development in the Aquifer Protection District for compliance with the Aquifer Protection Ordinance.

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
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.	
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.	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. 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 the 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.	
Revised					

2. Public Involvement and Participation

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
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.	Continue to follow public notice requirements as necessary.
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.	

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
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	The Town of Hampton, the NHDES Beach Program, and Hampton Beach State Park have combined efforts to promote a healthy beach quality. The Blue Ocean Society currently coordinates volunteers for the Adopt-a-Beach Program. Earth Day Cleanup events were held the week of April 19-25, 2008. The annual Student and Coastal Cleanups were held on September 19 and 20, 2008, respectively. A total of thirty one (31) clean-ups were conducted in 2008 and 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. Approximately 1,665 pounds of litter was collected from the five sections of Hampton Beach during 2008.	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 future goals to: • Install pet waste stations • Conduct GIS assessments during rain events to determine beach bacteria loading • Coordinate future educational campaigns with the State Park to prevent litter accumulations. A Student Coastal Cleanup Day is scheduled for April 18, 2009 and an International Coastal Cleanup for April 19, 2009.
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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
3A	Storm Sewer System Map: - Review existing information to identify all stormwater outfalls. - Conduct a field survey to confirm outfall locations, include evaluation of drainage divides/drainage areas.	YEAR 1 Storm Sewer System Mapping 90% complete. YEARS 2-3 Field Check and revise Map. YEAR 4 Map 100% complete. 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.	Public Works Director	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. However, limited knowledge of GIS programming, and use of the software on only one computer has prevented the development and use of a complete GIS system for the tracking of catchbasin cleaning.	

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
Revised					
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) An updated sewer regulation has been drafted but has not been adopted by the Town.	
Revised					

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
3C	IDDE Tracking Program: - Utilize scheduled catch basin cleanings and outfall inspections as method of detecting illicit discharges. - Develop mechanism to track enforcement actions. - Implement enforcement and tracking of revised rules.	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	The catch basin crews continue to document any illicit discharges on the catch basin cleaning form, and to distribute the door hangers in the region where the illicit discharge was found. The catch basin crew has voiced their difficulty with finding the time to both clean catch basins and distribute door hangers. No illicit discharges were identified during catch basin cleaning. In addition, the Town continues to look for illicit connections during road reconstruction or other infrastructure projects. No illicit connections were identified during road reconstruction projects this year (Carlson Road, Hurd Road, Trafford Road, Locke Road, Tobey Street, and Gray Street). 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.	
Revised					

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
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 training on IDDE was necessary this year therefore no IDDE training was conducted.	
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 Town continues to publicize the “IDDE Hotline” on the door hangers. The door hangers are distributed during catch basin cleaning and also posted on the DPW web page.	
Revised					

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
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	The Town of Hampton continues to be part of the Southeast Regional Refuse Disposal District (SERRDD) 53-B, who sponsors a Household Hazardous Waste (HHW) Collection Day and an e-waste collection day each year. During 2008, the Town added fluorescent bulbs to the list of mercury wastes collected. District 53-B held HHW Collection Day on May 10 and September 13, 2008. The dues paid to the SERRDD for 2008 totaled \$9,520. Approximately 536 households participated in these two collection days. The two events were publicized two weeks in advance in the Hampton Union and the Portsmouth Herald. HHW Day brochures were also displayed at Hampton City Hall and the Transfer Station. 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.	The next collection days are scheduled for Saturday May 9 in Hampton and September 26, 2009 in Brentwood, NH.
Revised					

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
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	The Town uses the following techniques to identify illicit discharges: Catch basins were cleaned for the entire main beach area as well as on fifty two (52) roads. No illicit discharges were identified during catch basin cleaning. Infrastructure reconstruction projects were conducted in the areas of Carlson Road, Hurd Road, Trafford Road, Locke Road, Tobey Street, and Gray Street. No illicit connections were identified during these construction projects.	The U.S.EPA audit on March 4, and 5, 2008 identified that dry weather screening of outfalls need to be conducted during the next permit cycle. The Town is considering a revised comprehensive storm drain system ordinance to address illicit discharges (see BMP 5A)
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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
4A	Revise Ordinances: - Review existing ordinances. - Develop revised ordinance with the use of public participation. - Include sanctions in the ordinance. - Include a site plan review in the ordinance. - 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. - Publicize revised ordinance. - Activate, implement, and enforce revised ordinance.	YEAR 1 Generate summary memorandum of status of existing ordinance with recommended changes. YEAR 2 Revise ordinances for construction activities. YEAR 3 Adopt Changes (include Public Notice Requirements). YEARS 4-5 Implement and enforce ordinance.	Planning Board	The Site Plan Review Regulations and the Subdivision Regulations were amended in Permit Year 3 to include language on construction runoff control. The Regulations continue to be enforced. Third party inspections were conducted at the following sites: - Sherburne Place Subdivision - Dalton Lane - Cassie Lane Any significant issues related to sediment and erosion control identified during the third party inspections were corrected voluntarily by the contractors. The building inspectors would provide enforcement if necessary.	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. Planning and Public Works will each keep a log of site under construction and any sediment/erosion control issues that arise (Public Works – Subdivisions, Planning – Commercial Sites)
Revised					

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
4B	Training/Inspection initiate training for inspector(s) on new ordinances.		Building Inspector		
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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
5A	Revise Existing Ordinances: - Review existing ordinances. - Develop revised ordinance with the use of public participation. - Ensure ordinance includes procedures to ensure adequate long-term operation and maintenance of BMPs. - Publicize revised ordinance. - Initiate training for inspectors - Activate, implement, and enforce revised ordinance.	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	The Town of Hampton's stormwater consultant has continued to assist the Town in reviewing existing Site Plan and Subdivision Regulations which will act as the basis for revisions. 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. The Town continues to require annual inspection and maintenance reports of any site getting Planning Board approval. This requirement has been added as a condition of approval, but has not been formalized in the Regulations.	The revised LID concepts will be developed during the next permit cycle. The Planner and DPW will keep logs of sites that need to submit inspection and maintenance reports.
Revised					

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
Delayed	Progress on this BMP had been delayed in previous Permit Years because the Town went several months without a planner. In addition, this BMP had also been postponed until the completion of BMP 4A which was completed in PY4.				
Revised					
Revised					

5a. Additions

	None				

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
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: - Identify (list) all municipal operations - Conduct site reconnaissance visits to each municipal property to identify current BMPs used. - Identify and select applicable future BMPs for pollution prevention and implement recommended BMPs.	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.	The next General Permit will likely require audits to be conducted. Hampton may re-visit each facility to ensure good practices are being followed.
Revised					

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
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 2008. Street sweeping of the remainder of the Town of Hampton began in April 2009, and will continue until all streets and municipal parking lots have been cleaned.	
Revised				The Town also cooperated with the Department of Resources and Economic Development (DRED) beach clean-up contractor and accepted over 380 tons of beach debris from daily cleaning for disposal.	
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.	
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.				

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
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 new catch basin cleaning equipment is still in use and the boom was replaced in 2008. Catch basin cleaning is still time consuming because of the build-up of sediments. Once a full cycle of cleaning has been completed (i.e. all catchbasins have been cleaned thoroughly once), cleaning is anticipated to go more quickly, and the cycle may be shortened.	
Revised					
6F	- Continue Conveyance O&M Program: - Continue existing program for maintenance and replacement. - Recommend any changes. - Review and Revise program as needed and implement changes.	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	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. In 2008, the Public Works Department staff: - Cleaned 660 feet of drain line, - Replaced drainage system on Tuck Field, 100 feet of 12 inch ADS pipe was installed for drainage on Carlson, Hurd, and Trafford Road, - Installed two (2) catch basins and 140 feet of Storm-Tech drain line on Locke Road, - Installed 300 feet of culvert with 12 inch perforated pipe at Sacred Heart School.	
Revised					

6a. Additions

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities -- Next Permit Cycle
6G	PPGH Training	YEAR 5 Train Public Works Employees in PPGH	Public Works Director	No PPGH training occurred in Permit Year 6.	

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
Page 47

Table 21: TMDL Calculation

Bacteria TMDL Calculation for Hampton/Seabrook Harbor

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

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*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 bill org/day * 365 day = 690,382 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)*(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 bill org/day/365 day = 2,810 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

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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).

BMP ID #	BMP Description	Measurable Goal(s)	Responsible Dept./Person Name	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Cycle
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.	The Hampton IDDE program will likely include dry weather outfall inspections next permit cycle.
Revised					
Revised					

Part IV. Summary of Information Collected and Analyzed

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, 2008 through April 30, 2009)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	No
Annual program budget/expenditures **	(\$)	
Total program expenditures since beginning of permit coverage	(\$)	
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	Yes
Stream teams established or supported	(# or y/n)	No
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	2
▪ community participation **	(# or %)	536 Households
▪ material collected **	(tons or gal)	
School curricula implemented	(y/n)	No

Legal/Regulatory

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

Mapping and Illicit Discharges

	(Preferred Units)		Response
Outfall mapping complete	(%)		100
Estimated or actual number of outfalls	(#)		
System-Wide mapping complete (complete storm sewer infrastructure)	(%)		100 in draft
Mapping method(s)			
▪ Paper/Mylar	(%)		
▪ CADD	(%)		
▪ GIS	(%)		100
Outfalls inspected/screened **	(# or %)		
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)		
Illicit discharges identified **	(#)		
Illicit discharges identified (Since beginning of permit coverage)	(#)		
Illicit connections removed **	(#); and (est. gpd)		
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)		
% of population on sewer	(%)		
% of population on septic systems	(%)		

Construction

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

Post-Development Stormwater Management

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

Operations and Maintenance

	(Preferred Units)	Response
Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1/5 yrs
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1/5 yrs
Qty of structures cleaned **	(#)	
Qty. of storm drain cleaned **	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	
Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	
• Disposal cost**	(\$)	
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	0
• Vacuum truck(s) owned/leased	(#)	1 owned
• Vacuum trucks specified in contracts	(y/n)	
• % Structures cleaned with clam shells **	(%)	
• % Structures cleaned with vactor **	(%)	

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	
• Disposal cost**	(\$)	

Sweeping Equipment	
• Rotary brush street sweepers owned/leased	(#)
• Vacuum street sweepers owned/leased	(#)
• Vacuum street sweepers specified in contracts	(y/n)
• % Roads swept with rotary brush sweepers **	%
• % Roads swept with vacuum sweepers **	%
Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)	
▪ Fertilizers	(lbs. or %)
▪ Herbicides	(lbs. or %)
▪ Pesticides	(lbs. or %)
Integrated Pest Management (IPM) Practices Implemented	
	(y/n)

(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 ₂
	% MgCl ₂
	% CMA
	% Kac
	% KCl
	% Sand
Pre-wetting techniques utilized **	(y/n or %)
Manual control spreaders used **	(y/n or %)
Zero-velocity spreaders used **	(y/n or %)
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/ln mi. or %)
% of salt/chemical pile(s) covered in storage shed(s)	(%)
Storage shed(s) in design or under construction	(y/n or #)
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)

Water Supply Protection

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