

Annual Report Permit Year 4 (May 1, 2006 – April 30, 2007)
Small Municipal Separate Storm Sewer System General Permit
Town of Hampton, New Hampshire

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

Part I General Information

Name of Permittee: Town of Hampton, New Hampshire

EPA NPDES Permit Number: NHR041038

Mailing Address: 100 Winnacunnet Road
Hampton, New Hampshire 03842

Contact Person: Mr. Doug Mellin, Public Works Operations Manager

Telephone: (603) 926-3202 E-Mail: dmellin@town.hampton.nh.us

Reporting Period: May 1, 2006 – April 30, 2007

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, I certify that 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, Town Manager

Date: _____

Part II Self Assessment

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

Discharges to Water Quality Impaired Waters (Compliance with Part I.C. of the General Permit)

The Town of Hampton discharges stormwater that contributes to the impairment of three waterbodies that are listed on the Draft 2006 303(d) list: Taylor River (NHEST600031003-03, NHEST600031004-02-02), Hampton Falls River (NHEST600031004-01-01), and Hampton/Seabrook Harbor (NHEST600031004-09-04). Wet weather discharge (including stormwater) is listed as the source of impairment for all three waterbodies. The pollutants of concern include dioxin, mercury, PCBs, and bacteria. 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.

Part III Summary of Minimum Control Measures

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

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 are also shown in the Table.

Discussion of any changes in identified BMPs or measurable goals: Any changes to goals or BMPs for subsequent permit years are presented in the Table.

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 Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
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 Operation Manager	The educational brochure/door-hanger outlining the “do’s and don’ts” of storm drains that was designed by the Science Club from Winnacunnet High School during Permit Year 2 and modified and printed by Aquarion Water Company during Permit Year 3, continued to be distributed during catch basin cleaning in Permit Year 4 (see BMP 3C for more information).	No actions are required.
Revised (PY3)		Distribute brochures at locations that are readily available to all residents in the urbanized area.		The Science Club door-hanger aired on Channel 22 during spring and summer 2006 and is posted on the DPW Webpage.	
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 Operation Manager	The Seacoast Coalition (NH Seacoast Stormwater) video “Stormwater Runoff, There is No Away” aired on October 18, 2006 at 5:00 a.m. on NH Public Television. The stormwater PowerPoint presentation of the Science Club doorhanger aired on Ch. 22 periodically during Permit Year 4.	The Conservation Commission is planning to do 8-10 videos for public access cable (approximately 10 minutes each) on various topics relating to stormwater pollution prevention. Public education topics include lawn care/yard waste disposal, toxic waste disposal, pet waste, wetland habitat protection, etc.

1. Public Education and Outreach

BMP ID#	BMP Description	Measurable Goal(s)	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
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)	The Science Club from Winnacunnet High School performed stenciling in Hampton during Permit Year 4 (fall 2006). More than 50 storm drains were stenciled on Ashworth Ave., the bottom of the lettered streets at the beach, and some of the roads that are east off of Ashworth Ave. The UNH Cooperative Extension and Hampton Public Works provided the Science Club with materials and direction on stenciling. This BMP also helps fulfill Minimum Control Measure 2 – Public Involvement and Participation by involving students in educating the public. In addition to stenciling, Adam Torrey (Aquarion Water Company) and Bruce Montville (LifeWise Community) gave a presentation on aquifer protection to the students at Winnacunnet High School. The “Stormwater Runoff” video is used as a regular part of the biology curriculum as well as lessons on the water cycle.	More stenciling is anticipated for Permit Year 5. The Town of Hampton is also interested in applying for a “NHDES Small Outreach and Education grant to purchase catch basin placards.
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.	No action required.

1. Public Education and Outreach

BMP ID#	BMP Description	Measurable Goal(s)	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
1E	Continue Planning Board Review of Site Triggering of Aquifer Protection Ordinance.	YEARS 1-5 Continue Enforcement.	Planning Board and Building Inspector	This ordinance contains development restrictions to protect groundwater. The development restrictions also protect receiving waters from stormwater runoff. The restrictions include limiting the amount of impervious area in the Aquifer Protection District, prohibiting some uses, and granting conditional use permits to facilities that will not detrimentally affect source water. The Planning Board continues to review all development in the Aquifer protection district for compliance with this Ordinance (with the exception of single family and two family homes).	Continue to review all development in the Aquifer Protection District for compliance with the Aquifer Protection Ordinance.
Revised (PY3)	The title of this BMP has been changed to better reflect the intent of the BMP			In Permit Year 4, there have been at least two reviews of sites triggering the Aquifer Protection Ordinance. They are described below: Old Newick Site (Brother's North) was conditionally approved by the planning board. Plans were sent to Aquarion Water Company, and they had no comment. The site had the same amount of impervious surfaces as the previous use; however it needed a variance because it exceeded the 60% impervious surface requirement of the Aquifer Protection Ordinance. This project is under appeal by the abutters. The stormwater structures included a subsurface storage unit and swales.	

1. Public Education and Outreach

BMP ID#	BMP Description	Measurable Goal(s)	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
				A six-lot subdivision on Woodland Road met all the requirements and is on Town sewer. The stormwater structures for this site included a couple of retention ponds which discharge to the Town storm drain system.	
1F	Pet Waste Management.	YEAR 2 Identify target locations. YEAR 3 Install dispensers.	Public Works Operations Manager	No action required. This BMP was deleted in Permit Year 1.	No action required.
Deleted (PY1)	This BMP was deleted (see Annual Report Permit Year 1 for details).				

1a. Additions

BMP ID#	BMP Description	Measurable Goal(s)	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
1G	Additional Public Education and Outreach	YEAR 4-5 Track public education items that were not part of the original five-year plan. This BMP was added in PY4.	Municipal and not-for-profit organizations	The Hampton Conservation Commission was selected by the Natural Resource Outreach Coalition (NROC) for a National Resource Inventory which includes a series of public meetings and brainstorming sessions to determine issues that are pertinent to the Town. Public education on why it is necessary to protect resources is also included. The purpose of the NH NROC is to protect natural resources while planning for growth. The inventory will start in May. There may be some involvement of the Planning Board.	Participate in the National Resource Inventory public meetings as necessary.

2. Public Participation/Involvement

BMP ID#	BMP Description	Measurable Goal	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
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	Public Notice for BMP 3B for amendments to Chapter 2, Article 6 “Sewer Use and Construction Ordinance” was performed as part of the deliberative session of the first part of the Annual Town Meeting held on February 3, 2007. The Hampton Public Works Director attended the deliberative session and helped to clarify questions that were raised. The Town warrant was also published in the 2006 Town Report and posted on the Town’s website. See BMP 3B for more information. A public hearing was held for the proposed Site Plan Review regulations and Subdivision regulations amendments on June 7, 2006. There were no comments from the public. See BMP 4A for more information.	Continue to follow public notice requirements as required.
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 Operations Manager	No action required. BMP was completed in Permit Year 1.	No action required.

2. Public Participation/Involvement

BMP ID#	BMP Description	Measurable Goal	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
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 Operations Manager	Stakeholder meetings, for Permit Year 4, were held on September 19, 2006 and March 7, 2007 to discuss overall progress on the Stormwater Management Plan. Meeting minutes are kept and distributed to all stakeholders and are posted on the Town of Hampton's Website. The time and location of the Stakeholder meetings are also posted on the Town's Website.	Continue to meet on a semi-annually basis.
Revised (PY4)		Stakeholder meetings will be held semi-annually			
2D	Assist with Seacoast Beach Cleanup Day and Earth Day activities.	YEARS 1-5 Participate in events annually.	Public Works Operations Manager	The Coastal Cleanup in Hampton was held on September 15, 2006. All trash was collected by Waste Management or the Department of Parks and Recreation. At Hampton Beach (main beach), 360 volunteers collected more than 400 pounds of trash totaling 22 bags of garbage. At Hampton Beach State Park, 36 volunteers collected 57 pounds of trash totaling 13 bags of garbage.	The Coastal Cleanup for Permit Year 5 is scheduled for September 15, 2007.

3. Illicit Discharge Detection and Elimination (IDDE)

BMP ID#	BMP Description	Measurable Goal	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
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 Operations Manager	The storm drain system has been mapped using GIS technology and field checks have been completed. The Public Works Department does not have a full map book of the system because they are continuing to have a compatibility issue with ArcView 3.2 and ArcGIS 9.0; however they can print individual maps as necessary.	The Town of Hampton will continue to work out the compatibility issues involving ArcView 3.2 and ArcGIS 9.0 in Permit Year 5. The Town is considering the possibility of requiring Site Plan as-builts to be compatible with ArcGIS 9.2. The Deputy Assessor who was one of the staff familiar with ArcGIS has left the Town, which may delay the process. Requiring electronic geo-referenced as-builts will help keep the GIS storm system map current. Note: In Permit Year 2, the Town used grant money to conduct an evaluation of the catchment areas of the catch basins in the TMDL study area. This fulfills a portion of the Year 5 goal.
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 Operations Manager	The Town of Hampton amended Chapter 2, Article 6 "Sewage Use and Construction Ordinance" of the Town Code on March 13, 2007. The amendments make it unlawful to discharge to any natural outlet or municipal storm sewer system within the Town of Hampton, or in any area under the jurisdiction of the Town, any wastewater or other polluted waters, except where suitable treatment has been provided in accordance with subsequent provisions of the Ordinance. In addition, connection to municipal storm drain system shall	No actions required.

3. Illicit Discharge Detection and Elimination (IDDE)

BMP ID#	BMP Description	Measurable Goal	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
				require the prior written approval of the Director of Public Works.	
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 doorhanger 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 Operations Manager	The catch basin crews continue to distribute doorhangers during catch basin cleaning in immediate areas where catch basins are cleaned in a neighborhood or if they find specific issues. This BMP also helps fulfill BMP 1A General Public Education Brochure. Catch basin crews use a catch basin cleaning log that supplies room for comments. If evidence of an illicit discharge were detected during catch basin cleaning, it would be recorded on the log. The DPW has been aware that they need to track and address illicit discharges as their crews observe them. During Permit Year 4, however, they did not have any reports. The DPW is also using the IDDE tracking sheet. There have been no citizen call-ins/complaints to document.	Continue to track illicit discharges.

3. Illicit Discharge Detection and Elimination (IDDE)

BMP ID#	BMP Description	Measurable Goal	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
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 Operations Manager	IDDE/Good Housekeeping training was completed in Permit Year 2. The Seacoast Coalition received a grant from the NH Estuaries Project to create a standardized set of commonly accepted technical standards and guidance on stormwater management measures. The manual is titled, "Guidelines and Standard Operating Procedures for Illicit Discharge Detection and Elimination and Pollution Prevention/Good Housekeeping for Stormwater Phase II Communities in New Hampshire". The Town of Hampton received a copy of this Manual for their use.	Seven, 90-minute training sessions based on the manual, "Guidelines and Standard Operating Procedures for Illicit Discharge Detection and Elimination and Pollution Prevention/Good Housekeeping for Stormwater Phase II Communities in New Hampshire", will be held in various host communities (as part of a training grant received by the Seacoast Coalition). The Town of Hampton will be invited to attend this training, and will most likely send a few Sewer and Drainage personnel.
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 doorhanger.	Public Works Operations Manager	The Town continues to publicize the "IDDE Hotline" on the doorhanger (which are distributed during catch basin cleaning), on the DPW webpage, and Channel 22. There were no citizen call-ins during Permit Year 4.	The Town will continue to publicize the Department of Public Works phone number as the number to call if citizens suspect an illicit discharge into a storm drain.
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 Operations Manager	The Town of Hampton is part of the Southeast Regional Refuse Disposal District 53-B, who sponsors a Household Hazardous Waste (HHW) Collection Day each year in Hampton. In 2006, the collection was held on May 13 from 9:00 a.m. to 12:00 p.m. at the Old Town Hall parking lot in Hampton. Due to a severe storm event, there was less participation in	The collection day for Permit Year 5 is scheduled for Saturday May 5, 2007.

3. Illicit Discharge Detection and Elimination (IDDE)

BMP ID#	BMP Description	Measurable Goal	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
				the HHW Collection Day; however a total of 261 cars representing all seven Towns participated in the collection day. The residential user survey that is usually performed was not conducted because of the weather conditions. Acceptable hazardous waste included used motor oil, antifreeze, oil-based paints, pesticides, spot removers, drain cleaners, disinfectants, kerosene, over cleaners, photographic chemicals, and auto batteries. An advertisement for the HHW Collection Day was provided by Aquarion Water Company which included a line stating "...and help protect your water resources and the environment". The also included the contact information for the NHDES HHW and Southeast Regional Refuse Disposal District. 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 Day.	

3. Illicit Discharge Detection and Elimination (IDDE)

BMP ID#	BMP Description	Measurable Goal	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
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 Operations Manager	In conjunction with NHDOT road improvements, the NHDES conducted smoke testing of several storm drains because of a concern with high bacteria counts in the stormwater of this area. Smoke testing of the State's storm drain system was performed south of Haverhill Ave. down Ocean Blvd. to the Hampton River Bridge (including Q St.). Smoke testing was also performed north of Haverhill Ave. up Ocean Blvd. to F St. The Town was present for the duration of the smoke testing; no illicit connections were found. The Town uses the following techniques to identify illicit discharges: • Catch basin cleaning to look for evidence of illicit discharges in Drakes River Area, Tide Mill Creek Area, Hampton Beach Area, and the Aquifer Protection District. The crew has been trained on illicit discharge identification and to address issues as they arise. The catch basin cleaning log includes space for comments. No illicit discharges were reported during catch basin cleaning. • IDDE grant work completed in the area of Hampton Beach which was not conclusive. • Road reconstruction projects. No illicit connections were identified	

3. Illicit Discharge Detection and Elimination (IDDE)

BMP ID#	BMP Description	Measurable Goal	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
				during road reconstruction. • Citizen call-ins. The Town has been tracking citizen call-ins since April 2006. No call-ins have been recorded to date.	

4. Construction Site Stormwater Runoff Control

BMP ID#	BMP Description	Measurable Goal	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
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 on June 7, 2006 to include language on construction runoff control. A public hearing was held for these amendments (see BMP 2A). The Town continues to perform third party inspections. No enforcement action has been necessary.	Implement and enforce ordinance.
4B	Training/Inspection - initiate training for inspector(s) on new ordinances.	YEARS 3 or 4 Train employees.	Building Inspector	No action required. This BMP was deleted in Permit Year 3.	No action required.
Deleted (PY3)	The Town hires third party inspectors to review construction activity for erosion/sediment control. Because the CEOs do not do this review, they will not be trained.				

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

BMP ID#	BMP Description	Measurable Goal	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
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 Planning Department was busy with Zoning Ordinance amendments this past winter and did not work on revisions for post construction runoff control. However, for some sites (such as the 6-lot subdivision noted in BMP 1e.) a condition of approval for annual certification of maintenance to the Town was required. The Conservation Commission has also started requiring maintenance on some sites, and will continue to push for it on more sites. The Town's standard easement language grants the Town the right of access to maintain BMPs; however a concern about the post construction runoff control is having the necessary staff to enforce it. The Conservation Commission does monthly sites walks and gives a list to the Code Enforcement Officer of what needs enforcement. However, not all sites can be visited.	The Town of Hampton's stormwater consultant will assist the Town in reviewing existing Site Plan Review and Subdivision ordinances which will act as the basis for ordinance revision.

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

BMP ID#	BMP Description	Measurable Goal	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
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.			

6. Pollution Prevention/Good Housekeeping in Municipal Operations

BMP ID#	BMP Description	Measurable Goal	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
6A	Municipal DPW SWPPP for Industrial Activities under the Multi-Sector General Permit.	YEAR 1 PWD Complex done by 3/10/03.	Public Works Operations Manager	No action required. This BMP was completed during Permit Year 1.	No action required.
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 Operations Manager	No action required. This BMP was completed during Permit Year 3.	No action required.
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 Operations Manager	Street Sweeping of the entire Hampton Beach main thoroughfares occurred daily from Memorial Day to Labor Day in 2006. Street sweeping of the remainder of the Town of Hampton began in March 2006, and will continue until all streets and municipal parking lots have been cleaned (anticipated to be completed June 1, 2007). The Hampton Beach main thoroughfares will continue to be swept daily from Memorial Day to Labor Day 2007.	Continue street sweeping in Permit Year 5.
6D	Continue cleaning catch basins within urbanized area on a five-year rotation, and begin to	YEARS 1-5 Continue catch basin cleaning.	Public Works Operations Manager	The Town currently conducts catch basin cleaning on a 5-year rotation with a goal to reduce it to a 2-year rotation. Catch basin cleaning begins	Continue catch basin cleaning in Permit Year 5.

6. Pollution Prevention/Good Housekeeping in Municipal Operations

BMP ID#	BMP Description	Measurable Goal	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
	document and perform more frequent cleaning as necessary.			each year in March. The Hampton Beach area is given a high priority. Problematic catch basins are cleaned annually. During 2006, approximately 542 catch basins were cleaned.	
Amended (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.			Storm drain stenciling was performed in select areas of Town (see BMP 1C).	
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 Operations Manager	The new catch basin cleaning truck, purchased in Permit Year 3, has helped improve the frequency and efficiency of catch basin cleaning. The new truck has also lended to general public education because the public has been very interested in how the catch basin cleaner works.	The use of the new catch basin cleaning truck will hopefully allow the Town to achieve the goal of reducing the catch basin cleaning to a 2-year rotation.

6. Pollution Prevention/Good Housekeeping in Municipal Operations

BMP ID#	BMP Description	Measurable Goal	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
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 Operations Manager	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. Repairs to catch basins are completed on an as-needed basis. In 2006, the Public Works Department staff raised or repaired 41 drain structures. Two hundred and eighty eight feet of 12" storm-drain culvert were replaced in the area of Hackett Lane. Three hundred and thirty five feet of 24" storm-drain culvert were replaced on Winnacunnet Rd., and 50 feet of 15" storm-drain culvert were replaced on Exeter Rd. In addition, 450 feet of new storm drain culvert were installed on Ashworth Ave parking lot (150 feet of 12"), Beach Plum Way (150 feet of 8"), and Hardards Way skate park (150 feet of 12"). In addition to these improvements, approximately 6,000 to 8,000 feet of new drainage was installed as part of the Hampton Beach drainage improvements.	Continue to conduct repairs and maintenance of the storm drain system as budget allows.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

Total Maximum Daily Load Allocations (Compliance with Part I.D of the General Permit)

1. The Hampton/Seabrook Harbor TMDL for bacteria was finalized in May 2004. This TMDL is for a pollutant (bacteria) that is likely found in stormwater discharges from the Hampton MS4.
2. The Town of Hampton MS4 system does not have a designated Waste Load Allocation (WLA) or Load Allocation (LA). One WLA and LA for all sources (Hampton WWTF, boat discharges, dry weather non-point sources, and stormwater load) has been assigned in the Hampton/Seabrook Harbor TMDL.

The bacteria load to Hampton/Seabrook Harbor resulting from dry weather non-point source accounts for 52% of the total load; stormwater accounts for an additional 41% of the total load. The percent reduction of the total loading to reach the TMDL of 690,382 billion organisms per day is 47%. The calculation from the Hampton/Seabrook Harbor TMDL is illustrated below:

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	MOS ⁵	WLA ⁶	LA ⁷	
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*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)/Total Load.

As outlined in the TMDL, progress toward reaching the goal of the TMDL (for the bacteria concentrations throughout the Hampton/Seabrook Harbor to meet all the water quality standards for shellfishing, primary contact recreation, and secondary recreation) data is collected as part of the NHDES Shellfish Program (routine monitoring in accordance with the NSSP protocols) and the EPA-funded National Coastal Assessment (monthly enterococci monitoring at four stations in the middle of the Harbor from April to December). In addition, for the purpose of determining the public health risks related to exposure to enterococci, the Water Quality Section of the NHDES Watershed Management Bureau collects samples of stormwater and near-shore waters that are in close proximity to storm drains that are easily accessible and located near areas that are frequented by the public.

3. The Hampton MS4 is not required to implement a specific WLA or LA. However, to assist in implementing their portion of the combined WLA and LA, the following BMP has been added:

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

BMP ID#	BMP Description	Measurable Goal	Responsible Party	Progress of Goal(s) – Permit Year 4	Planned Activities – Permit Year 5
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 Operations Manager and the NHDES	The NHDES conducted smoke testing of several storm drains because of a concern with high bacteria counts in the stormwater of the area (see BMP 3G for a listing of streets). No illicit connections were found during the smoke testing. If any had been found, the Town would have traced back the illicit discharge to identify the source and removed it.	Continue to work with the NHDES to identify, trace, and remove illicit discharges.

Part IV. Summary of Information Collected and Analyzed

Approximately 50 storm drains were stenciled in the Hampton.

Approximately 542 catch basins were cleaned in 2006 by DPW.

Approximately 673 feet of storm drain culvert was replaced in the Town in 2006.

Approximately 450 feet of new storm drain culvert was installed in 2006.

Approximately 41 drain structures were raised or repaired in 2006.

All Town roads are swept annually beginning in March.

Hampton Beach main thoroughfares are swept daily from Memorial Day through Labor Day.

Part V. Program Outputs & Accomplishments (OPTIONAL)