

*2004 THROUGH 2009 (YEARS 1 THROUGH 6)
COMBINED ANNUAL REPORTS*

*GENERAL PERMIT FOR THE DISCHARGE OF
STORMWATER FROM SMALL MUNICIPAL SEPARATE
STORM SEWER SYSTEMS*

NORTH HAVEN, CONNECTICUT

Prepared for:

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Summary

Status of Compliance:

Submission of this report brings the Town of North Haven into compliance with the reporting requirements for years 1 through 6 (2004-2009) of the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (GP) issued on January 9, 2004 and reissued on January 12, 2009.

The compliance status for the major requirements of the GP are summarized below and described in more detail in the body of this report:

- Part A and Part B registrations filed with DEP by the Town of North Haven in 2004 complied with registration requirements of the GP.
- Completion of the Stormwater Management Plan for the Town of North Haven, issued in June 2004, brought the Town into compliance with GP requirements for development of a Stormwater Management Plan.
- Mapping of stormwater outfalls was completed in 2004.
- Stormwater outfall sampling of December 7, 2004, July 21, 2009 and November 27, 2009 and subsequent reporting of results to DEP complied with the monitoring requirements of the GP for years 1 through 3 (2004 through 2006).

Assessment of Best Management Practices:

North Haven began implementation of Best Management Practices (BMPs) in 2004. Many of the BMPs identified in the Town's Stormwater Management Plan were already in place, particularly in the area of sedimentation and erosion control, and were considered to be effective in reducing contaminant loads in stormwater discharges. The Town has also significantly reduced the amount of road sand applied to town roads by use of an enhanced de-icing salt, starting in 2009.

Though the Town did not focus on or aggressively follow the 2004 Stormwater Management Plan, many of the BMPs in the plan were indeed implemented either through existing practices of the Town or by qualifying local programs conducted within the Town, most notably by the Quinnipiac River Watershed Association (QRWA).

Progress on Minimum Control Measures:

The Town made progress on several of the Minimum Control Measures (MCMs) by implementing appropriate BMPs identified in the Plan and achieved their respective Measurable Goals. However, not all of the planned BMPs were implemented as planned for Years 1 through 6 of the municipal stormwater program. The Town plans to implement any as yet unimplemented BMPs in 2010 so as to reach levels of compliance as originally intended in the Plan.

Monitoring Data

Stormwater sampling from six outfall locations (2 commercial, 2 residential and 2 industrial) was conducted on December 7, 2004, July 21, 2009 and November 27, 2009. The results were entered on DEP's Stormwater Monitoring Report form and submitted to DEP under cover letters dated June 17, 2005, August 5, 2009 and December 15, 2009. Because the results were previously transmitted to DEP, they are not attached hereto.

The monitoring data did not identify the presence of obvious illicit discharges within the areas tributary to the sampling locations. There were some exceedance of EPA benchmark values for stormwater quality, but none of the exceedances were indicative of illicit discharges. A tabulation of the three monitoring rounds is presented in the Appendix A of this report.

Minimum Control Measures

1.0 - Introduction

Best Management Practices and Minimum Control Measures are introduced in Section 1.0 of the Town's Stormwater Management Plan of the Plan and itemized in Sections 2.0 through 6.0 of the Plan.

The following section describes what was planned for each BMP and whether or not measurable goals were achieved. If measurable goals were not achieved, plans for achieving them in the future are also discussed.

2.0 - Public Education and Outreach

BMP 2A – In support and partnership with QRWA, continue to implement an outreach and education program, educating the public on watershed dynamics and pollution loading issues.

Measurable Goal: 600 students per year will receive a presentation and / or take-home materials. Teachers will evaluate program

Measurable goal was partially achieved by a diversity of education opportunities available in North Haven, such as environmental science and other science courses taught in the North Haven Public Schools and field trips conducted at the North Haven Water Pollution Control Facility and at the Whitney Water Center of the South Central Connecticut Regional Water Authority.

Future Plan: The Town plans to re-evaluate the target audience, opportunities, resources and methods for most effectively connecting with students and the public at-large with respect to watershed protection. The Town will further explore and utilize educational opportunities available from the QRWA and the South Central Connecticut Regional Water Authority.

BMP 2B – Distribute information on lawn fertilizer, pesticide use, impacts of overuse and other household contaminants.

Measurable Goal: Educate 400 homeowners per year through brochures and fact sheets.

Measurable goal was largely achieved by making brochures available at Library, Town Hall and Town Hall Annex. In addition, the Town annually sponsors an Environmental Information Day where information and displays regarding these matters are made available to participants. Most of the residences in Town (those that are customers of the South Central Regional Water Authority) also receive information flyers in their water bills and information regarding safe disposal of hazardous wastes at "Haz Waste Central", which is operated by the

Regional Water Authority. Remainder of measurable goal will be implemented in 2010.

Future Plan: The Town plans to continue to use brochures and fact sheets, to continue sponsoring the annual Environmental Information Day and explore other opportunities, such as local access cable television and the Town's website, to further educate homeowners regarding lawn fertilizer, pesticide use, impacts of overuse and other household contaminants.

BMP 2C – Reduce the impact of failing septic systems and their effect on the quality of water bodies in the Town of North Haven.

Measurable Goal: Identify homes currently using septic systems. Educate 400 homeowners per year through brochures and fact sheets. Hold an information workshop in year 1.

Measurable goal was partially achieved by identification of areas on septic systems, as mapped by the Town Engineer's Office. Additionally, the Quinnipiack Health District, which serves several area towns is located in North Haven and has brochures available at their office. The health district conducts inspections of septic systems and enforces corrective actions should failing septic systems be detected.

Future Plan: The Town plans to continue to use brochures and fact sheets and explore other opportunities, such as local access cable television and the Town's website, to further educate homeowners regarding the impact of failing septic systems and their effect on the quality of water bodies in the Town of North Haven.

BMP 2D – Reduce nutrient loading through pet wastes and waterfowl wastes reduction.

Measurable Goal: Post four signs in the Town; develop and distribute flyers by the end of year four.

Measurable goal was partially achieved by posting of signs at Town Parks, particularly Sinoway Pond and Todd's Pond, which are locations where residents frequently feed geese. Vegetative buffers were also planted around Todd's Pond in an effort to discourage geese from flocking there.

Future Plan: The Town plans to develop and distribute flyers to educate residents regarding the impact of pet and waterfowl wastes on the quality of water bodies in the Town of North Haven. An informative flyer regarding the volume of wastes generated by geese is available from the QRWA and will be considered for distribution to educate the public regarding this matter. The Town

may consider an ordinance prohibiting feeding of waterfowl if education is ineffective.

BMP 2E – Develop and maintain a library of educational materials on stormwater management.

Measurable Goal: Collect data and information by end of year one. Catalog and organize materials by end of year two. Distribute library of educational material to staff employees of Town departments by the end of year four. Make the library of educational materials available to public and consultant community by the end of year five.

Measurable goals were not achieved in any systematic manner, though educational materials are generally available to interested parties, particularly on the internet.

Future Plan: The Town plans to continue to collect, catalog and make available educational materials regarding stormwater management. A variety of flyers on stormwater–related topics are available through QRWA and other sources.

BMP 2F – Alternate information sources – website, brochures, small posters.

Measurable Goal: Develop / select a brochure and develop a website by the end of year two.

Measurable goals were partially achieved by inclusion of “A Friend of the River” poster on the Town’s website. On the poster page the QRWA offers to train teams and individuals to become a friend of the river and improve rivers and Long Island Sound by protecting streams in their backyard and volunteering to contact streamside landowners to reduce pollution.

Future Plan: The Town plans to explore links to other websites, such as the Quinnipiac River Watershed Association, the North Haven Trail and Quinnipiac Trail Association and the Peter’s Rock Association to include brochures or posters regarding stormwater management.

3.0 Public Involvement and Participation

BMP 3A – Introduce the North Haven Stormwater Management Plan to the public.

Measurable Goal: Hold a public workshop to kick off the Public Education and Outreach Program in Year 1.

Measurable goal was achieved by holding a public meeting on March 26, 2004 to introduce Plan.

Future Plan: The Town plans to hold public meetings to reintroduce and reinvigorate interest in the Stormwater Plan and related pollution prevention topics.

BMP 3B – Public hearing to present the North Haven Stormwater Management Plan.

Measurable Goal: Public notification, hold hearing in Year 1.

We believe that notification and hearing were conducted. We will search for documentation of such activities to confirm they were completed.

Future Plan: Unless re-notification and hearing are required, there are no future plans in this area because many other avenues for public outreach are planned, as described herein.

BMP 3C – Implement Neighborhood Watch.

Measurable Goal: 20 people trained and signed on as watchmen in years 3 through 5.

Measurable goal was not achieved. The practicality of the program is questionable because it is difficult to recruit watchmen.

Future Plan: The neighborhood watch BMP will be re-examined by the Town, possibly using “Friends of the River” as a substitute.

BMP 3D – Storm drain marking / stenciling.

Measurable Goal: 40 storm drains stenciled; 5 volunteers involved in stenciling. Years one through five.

Measurable goal was partially achieved by activities conducted by QRWA to mark storm drains. The number of storm drains marked has not been broken down on an annual basis, but an estimated 40 storm drains in Town have been marked in six years, averaging 7 per year, significantly less than the goal of 40 per year.

Future Plan: The Town plans to work more closely with QRWA to obtain supplies, train volunteers and mark 100 storm drains per year. QRWA has experience with various stickers and will provide the Town with recommendations for purchasing stickers.

BMP 3E – Litter and debris cleanup.

Measurable Goal: Work with the QRWA and other community organizations to participate in cleanup events focusing on the Quinnipiac River. Involve the North Haven Conservation Commission and 20 volunteers by Year 5.

Measurable goal was substantially achieved by QRWA in conducting their annual Q-River Cleanup from Source to Sound. QRWA has local coordinators in each Town in the watershed, including North Haven, so that litter along all sections of the river is removed. The Town Public Works Department actively participates in the annual litter and debris cleanup by hauling away and properly disposing of the litter and debris collected by the volunteers.

The annual cleanup has been extremely effective in improving the appearance of the river and its banks. A declining amount of litter and debris is observed each year indicating that debris that had accumulated over a long period of time before the annual cleanups were initiated has been largely eliminated.

Future Plan: The Town plans to work more closely with QRWA and the Conservation Commission to intensify, expand and improve litter cleanup, as needed.

4.0 Illicit Discharge Detection and Elimination Program

BMP 4A – Develop and enforce an ordinance that prohibits illicit discharge and dumping and authorizes enforcement actions, including on private property.

Measurable Goal: Develop an ordinance in year one.

Measurable goal was not achieved.

Future Plan: The Town plans to find a model ordinance and determine its suitability for use by the Town.

BMP 4B – Develop and implement a program in conjunction with existing public outreach activities to inform the public employees, businesses, and the general public of hazards associated with illicit discharges.

Measurable Goal: Develop an outreach program by the end of year one.

Measurable goal was partially achieved, as described under section 2.0 of this report. Also, public works employees and water pollution control employees receive annual stormwater training through the industrial stormwater management program. Additionally, through the efforts of QRWA, many North Haven business owners and employees have taken the “Friends of the River”

Business Program Pledge to conduct their businesses in a manner so as to prevent stormwater pollution and improve water quality.

Future Plan: As described above, the Town plans to reinvigorate its outreach programs and will include education regarding the water quality hazards of illicit discharges.

BMP 4C – Create a storm sewer mapping system showing all known storm drain outfalls and receiving waters.

Measurable Goal: Map and verify the location of all known outfalls from a pipe or conduit with a diameter of 15” or larger by end of year two and map and verify the location of all known outfalls from a pipe or conduit with a diameter of 12” or larger by end of year two.

Measurable goals were achieved in year one as part of the Stormwater Management Plan.

Future Plan: The Town plans to review and update the mapping, particularly in areas where new developments have been built or drainage improvements have been made.

BMP 4D – Develop SOP’s to detect and address illicit discharges that include, at a minimum, the following components:

- Identification of priority areas for assessment
- Procedures for receipt and consideration of complaints
- Procedures for catch basin and manhole inspections for illicit discharges
- Procedures for dry weather surveys including field screening for non-stormwater flows and tests of selected parameters and bacteria
- Characterizing any discharges found
- Procedures to trace an illicit discharge
- Procedures to remove an illicit discharge
- Procedures for referral to CTDEP of illicit discharges
- Record keeping and tracking of all actions taken to detect and address illicit discharges
- Procedures for program evaluation and assessment

Measurable Goal: Develop SOP’s to detect illicit discharges by the end of year two.

Measurable Goal: Determine 50% of illicit discharges by the end of year two and 90% by end of year three.

Measurable Goal: Eliminate 90% of illicit discharges by the end of year three.

Measurable Goal: Detect and eliminate most illicit discharges by the end of year four.

Measurable goals may not have been achieved in the systematic manner listed above. However, public works employees will report any unusual conditions they may observe to supervisors for follow-up. In addition, the Town and the Quinnipiack Valley Health District investigate and correct, as needed, citizen complaints or inquiries regarding possible illicit discharges.

Future Plan: The Town plans to review proposed SOP's listed above and implement a plan to detect and address illicit discharges.

BMP 4E – Develop and implement a stormwater monitoring / sampling plan.

Measurable Goal: Each year take six samples of stormwater outflow including two in residential areas, two in industrial areas and two in commercial areas. Samples will be analyzed by a State approved laboratory. Years one through five.

To date, measurable goals have been attained for years one through three (2004-2006). Stormwater sampling from six outfall locations (2 commercial, 2 residential and 2 industrial) was conducted on December 7, 2004, July 21, 2009 and November 27, 2009. The results were entered on DEP's Stormwater Monitoring Report form and submitted to DEP under cover letters dated June 17, 2005, August 5, 2009 and December 15, 2009. Because the results were previously transmitted to DEP, they are not attached hereto.

The monitoring data did not identify the presence of obvious illicit discharges within the areas tributary to the sampling locations. There were some exceedance of EPA benchmark values for stormwater quality, but none of the exceedances were indicative of illicit discharges. A tabulation of the three monitoring rounds is presented in Appendix A of this report.

Future Plan: The Town plans to conduct additional sampling rounds when suitable storm events occur so as to achieve compliance with monitoring requirements as soon as possible.

The Town has received approval from DEP to implement a sampling strategy whereby sampling locations will be rotated to better assess possible illicit discharges at various locations throughout the Town. The Town will continue with 2 samples each from residential, commercial and industrial areas, but will cluster them in various sections of Town and move on to new clustered locations after 2 or 3 annual sampling events. Clustering of the sample locations will also enable representative samples collected more closely spaced in time.

The six locations for the next sampling events are in the north end of Town; 2 industrial samples from different parts of the Wharton Brook Industrial Park, which is a heavy industrial area located between Route 5 and the Quinnipiac River; 2 commercial samples representative of Route 5 north of Route 22 (Washington Avenue, which is one of the primary commercial strips in Town) and 2 residential samples representative of the neighborhoods between Washington Avenue and I-91 to the east.

An email dated December 17, 2009 from DEP approving the proposed monitoring plan is included as Appendix B.

BMP 4F – Develop and implement a plan to detect and address future non-stormwater discharges.

Measurable Goal: Develop procedures to implement the program by the end of year five.

Measurable goal was not achieved because it relies on the experiences gained from other prerequisite activities outlined in the Stormwater Management Plan.

Future Plan: The Town plans to review and evaluate information gained from implementation of BMPs 4A through 4E so as to implement on-going procedures to detect and address potential non-stormwater discharges.

BMP 4G – Develop procedures to evaluate BMPs and measurable goals of the Illicit Discharge Detection and Elimination Program.

Measurable Goal: Develop procedures to evaluate the program by the end of year two.

Measurable goal was not achieved because it relies on the experiences gained from other prerequisite activities outlined in the Stormwater Management Plan.

Future Plan: The Town plans to review and evaluate information gained from implementation of BMPS 4A through 4F so as to develop procedures to evaluate the Illicit Discharge Detection and Elimination Program.

5.0 Construction Site Stormwater Runoff Control

BMP 5A – Update existing Erosion and Sediment Control Ordinance to ensure compliance with the General Permit, State regulations and Storm Sewer Use Ordinance. Ordinance will require construction operators disturbing at least one acre to obtain permit from the Town. The Town may, at their discretion, require erosion and sediment controls for smaller sites based on local conditions and needs.

Measurable Goal: Review existing Erosion and Sediment Control Ordinance and draft new ordinance if necessary to meet General Permit requirements by end of year one.

Measurable Goal: Update existing Erosion and Sediment Control Ordinance to meet General Permit requirements by end of year two.

Measurable goal was generally achieved because the Town's existing Erosion and Sediment Control regulations already require a certified erosion and sediment control plan for any development when the disturbed area is cumulatively more than one-half acre. In addition, Town wetlands regulations require maintenance of a 50-foot buffer strip between any developed areas and adjacent wetlands or watercourses.

Future Plan: The Town plans to continually review and evaluate its erosion and sediment control requirements for construction sites so as to provide effective and appropriate control measures.

BMP 5B – Notification of construction site developers and operators of the requirements for registration under the General Permit for the Discharge of Stormwater and Dewatering associated with Construction Activities.

Measurable Goal: Implement registration requirements for all projects exceeding one-acre threshold by end of year one.

Measurable Goal: Continue compliance with registration requirements years two through five.

Measurable goals were achieved through the standard operating procedures of the Town's Zoning Enforcement Office, notifying developers early in the local permitting process of DEP registration requirements for discharge of stormwater from construction sites with land disturbance of one acre or more.

Future Plan: The Town plans to continually ensure compliance with DEP GP registration requirements for all projects exceeding the one-acre threshold.

BMP 5C – Develop a plan that will require construction site operators to implement appropriate erosion and sediment control BMPs.

Measurable Goal: Continue requirements for construction site operators to implement appropriate erosion and sediment control BMPs, in years one through five.

Measurable goals were achieved through the standard operating procedures of the Town's Zoning Enforcement Office, requiring construction site operators to implement appropriate erosion and sediment control BMPs.

Future Plan: The Town plans to continue requirements for construction site operators to implement appropriate erosion and sediment control BMPs.

BMP 5D – Require construction site operators to control waste at the site.

Measurable Goal: Continue requirements for construction site operators to control waste at the site, in years one through five.

Measurable goals were largely achieved through the standard operating procedures of the Town's Zoning Enforcement Office, requiring construction site operators to control waste at the site.

Future Plan: The Town plans to continue requirements for construction site operators to control waste at the site. In addition, the town will re-examine the waste control performance principles in the Town's Stormwater Management Plan to ensure conformity with the details of those performance principles.

BMP 5E – Review site plans prior to construction to ensure inclusion of erosion and sediment controls and post-construction controls in compliance with local ordinances and Connecticut Guidelines for Soil Erosion and Sediment Control.

Measurable Goal: Continue to review all site plans subject to ordinances and subdivision regulations.

Measurable goals were achieved through the standard operating procedures of the Town's Zoning Enforcement Office, requiring review of site plans prior to construction to ensure inclusion of erosion and sediment controls and post-construction controls in compliance with local ordinances and Connecticut Guidelines for Soil Erosion and Sediment Control.

Future Plan: The Town plans to continue requirements for review of site plans prior to construction to ensure inclusion of erosion and sediment controls and post-construction controls in compliance with local ordinances and Connecticut Guidelines for Soil Erosion and Sediment Control.

BMP 5F – Continue training or coordinate with existing training efforts to educate plan reviewers in erosion and sediment controls and post-construction controls in compliance with local ordinances and Connecticut Guidelines for Soil Erosion and Sediment Control.

Measurable Goal: Annually train plan reviewers and attend any relevant training seminars.

Measurable goals were achieved through professional development of local plan reviewers by attendance at seminars and training opportunities, as available.

Future Plan: The Town plans to continue to train plan reviewers and attend any relevant training seminars so as to stay current with erosion and sediment controls. In addition, the Town will avail its employees of training opportunities offered by the QRWA and DEP.

BMP 5G – Continue to inspect all construction sites during construction period that are regulated by local ordinance.

Measurable Goal: Inspect all construction sites meeting CTDEP threshold criteria and are not subject to a waiver. Inspection frequency will be based on prioritization criteria; however, all construction sites must be inspected at least once.

Measurable goals were largely achieved through the standard operating procedures of the Town's Zoning Enforcement Office, with inspections of construction sites.

Future Plan: The Town plans to continue to inspect all construction sites meeting CTDEP threshold criteria and to inspect all construction sites at least once.

6.0 Post-Construction Stormwater Management

BMP 6A – Require through an ordinance the installation and proper maintenance of post-construction runoff controls in compliance with state and local laws for projects disturbing one acre or more of land. The Town may require post-development stormwater controls for smaller sites.

Measurable Goal: Incorporate post-construction runoff controls in the Storm Sewer Use ordinance by end of year two.

Measurable goal was generally achieved because the Town's existing Erosion and Sediment Control regulations already require the installation and proper maintenance of post-construction runoff controls in compliance with state and local laws for any development when the disturbed area is cumulatively more than one-half acre. The Town's Soil Erosion and Sedimentation Control Regulations, attached as Appendix C to this report, requires compliance with governing state statutes and requires conformance with Connecticut Guidelines for Soil Erosion and Sediment Control. North Haven's Soil Erosion and Sedimentation Control Regulations closely follow the model ordinance included in Appendix A of Connecticut Guidelines for Soil Erosion and Sediment Control and included as Appendix D to this report.

Future Plan: The Town plans to continually review and evaluate its erosion and sediment control requirements for construction sites so as to provide for the

installation and proper maintenance of post-construction runoff controls in compliance with state and local laws.

BMP 6B – Develop and implement strategies which include a combination of structural and/or non-structural BMPs.

Measurable Goal: Continue implementation of BMPs including projects one acre or greater in disturbance in years one through five.

Measurable goal was achieved as evidenced by structural and non-structural BMPs emplaced on recent projects constructed in North Haven. Examples include installation of vortex separators at the North Haven Commons and North Haven Crossing Shopping Centers recently constructed on Universal Drive and wetlands restoration adjacent the North Haven Athletic complex on the site of the former North Haven High School.

Future Plan: The Town plans to continually develop and implement strategies that include a combination of structural and/or non-structural BMPs.

BMP 6C – Develop a plan to address post-construction stormwater runoff during the plan review, construction inspection, and post-construction maintenance inspection process.

Measurable Goal: Develop and adopt a plan by the end of year five.

Measurable goal was largely achieved through the standard operating procedures of the Town's Zoning Enforcement Office, notifying developers early in the local plan review process of requirements for zero net increase in runoff from pre-construction and pre-development conditions.

Future Plan: The Town plans to continually address post-construction stormwater runoff during the plan review, construction inspection, and post-construction maintenance inspection process.

7.0 Pollution Prevention and Good Housekeeping for Municipal Operations

BMP 7A – Revise existing maintenance activities and procedures to include new BMPs that reduce pollutants in stormwater.

Measurable Goal: Develop a revised O & M Plan by the end of year one.

Measurable Goal: Continue O & M requirements in years two through five.

Measurable goal was partially achieved through the standard operating procedures of the Town's Public Works Department, particularly since the new

Director of Public Works, Lynn K. Sadosky began employment with the Town in 2009 and renewed emphasis on the importance of environmental issues.

Future Plan: The Town plans to explore development of a separate O & M Plan, including new BMPs that reduce pollutants in stormwater.

BMP 7B – Develop and implement a training program for public employees to provide education on pollution prevention and good housekeeping practices.

Measurable Goal: Annually train public employees and attend any relevant training seminars.

Measurable goal was partially achieved through annual training of public works and treatment plant employees as part of the Town's Industrial Stormwater Pollution Prevention Plan.

Future Plan: The Town plans to formally develop and implement a training program for public employees under the Municipal Stormwater Program to provide education on pollution prevention and good housekeeping practices.

BMP 7C – Implement a catch basin cleaning and stormwater system maintenance program.

Measurable Goal: Inspect and maintain, as needed, catch basins and other stormwater drainage system facilities based on a schedule described in the O & M Plan by the end of year five.

Measurable goal was substantially achieved through annual catch basin cleaning conducted by the Public Works Department. In addition, the volume of sand applied to Town roads has been drastically reduced by the use of an enhanced de-icing salt, starting in 2009. Thus, the volume of sand accumulating in catch basins and other stormwater drainage system facilities has been reduced accordingly.

Future Plan: The Town plans to formalize the schedule and record-keeping of catch basin cleaning and integrate such activities into an overall pollution prevention O & M Plan.

BMP 7D – Implement a street sweeping program that evaluates and establishes priority areas as part of stormwater system maintenance pollution prevention and good housekeeping practices.

Measurable Goal: All Town roads will be swept on a schedule described in the CTDEP General Permit, which will be incorporated into the Town's O & M Plan by the end of year one.

Measurable Goal: All Town roads will be swept once a year, with priority areas being swept with greater frequency as determined by field inspection, years two through five.

Measurable goal was substantially achieved through annual street sweeping conducted by the Public Works Department. In addition, the volume of sand applied to Town roads has been drastically reduced by the use of an enhanced de-icing salt, starting in 2009. Thus, the volume of sand accumulating on roadways has been reduced accordingly.

Future Plan: The Town plans to formalize the schedule and record-keeping of street sweeping activities into an overall pollution prevention O & M Plan.

Summary of Stormwater Activities Planned for Next Reporting Cycle

Stormwater activities planned by the Town of North Haven for the next reporting cycle are summarized as follows:

Public Education and Outreach:

BMP 2A - Re-evaluate the target audience, opportunities, resources and methods for most effectively connecting with students and the public at-large with respect to watershed protection. The Town will further explore and utilize educational opportunities available from the QRWA and the South Central Connecticut Regional Water Authority.

BMP2B - Continue to use brochures and fact sheets, to continue sponsoring the annual Environmental Information Day and explore other opportunities, such as local access cable television and the Town's website, to further educate homeowners regarding lawn fertilizer, pesticide use, impacts of overuse and other household contaminants.

BMP 2C - Continue to use brochures and fact sheets and explore other opportunities, such as local access cable television and the Town's website, to further educate homeowners regarding the impact of failing septic systems and their effect on the quality of water bodies in the Town of North Haven.

BMP 2D - Develop and distribute flyers to educate residents regarding the impact of pet and waterfowl wastes on the quality of water bodies in the Town of North Haven. An informative flyer regarding the volume of wastes generated by geese is available from the QRWA and will be considered for distribution to educate the public regarding this matter. The Town may consider an ordinance prohibiting feeding of waterfowl if education is ineffective.

BMP 2E - Continue to collect, catalog and make available educational materials regarding stormwater management. A variety of flyers on stormwater-related topics are available through QRWA and other sources.

BMP 2F - Explore links to other websites, such as the Quinnipiac River Watershed Association, the North Haven Trail and Quinnipiac Trail Association and the Peter's Rock Association to include brochures or posters regarding stormwater management.

Public Involvement and Participation:

BMP 3A - Hold public meetings to reintroduce and reinvigorate interest in the Stormwater Plan and related pollution prevention topics.

BMP 3B - There are no future plans public notification and hearing because many other avenues for public outreach are planned, as described herein.

BMP 3C - Re-examine the practicality of neighborhood watchmen, possibly using "Friends of the River" as a substitute.

BMP 3D - Work more closely with QRWA to obtain supplies, train volunteers and mark 100 storm drains per year. QRWA has experience with various stickers and will provide the Town with recommendations for purchasing stickers.

BMP 3E - Work more closely with QRWA and the Conservation Commission to intensify, expand and improve litter and debris cleanup, as needed.

Illicit Discharge Detection and Elimination

BMP 4A - Determine the suitability of a model ordinance to prohibit illicit discharges for use by the Town.

BMP 4B - Reinvigorate outreach programs and include education regarding the water quality hazards of illicit discharges.

BMP 4C - Review and update storm sewer mapping, particularly in areas where new developments have been built or drainage improvements have been made.

BMP 4D - Review SOP's listed in the 2004 Stormwater Pollution Prevention Plan and implement a plan to detect and address illicit discharges.

BMP 4E - Conduct additional stormwater sampling rounds when suitable storm events occur so as to achieve compliance with monitoring requirements as soon as possible.

BMP 4F - Review and evaluate information gained from implementation of BMPs 4A through 4E so as to implement on-going procedures to detect and address potential non-stormwater discharges.

BMP 4G - Review and evaluate information gained from implementation of BMPs 4A through 4F so as to develop procedures to evaluate the Illicit Discharge Detection and Elimination Program.

Construction Site Stormwater Runoff Control

BMP 5A - Continually review and evaluate the Town's erosion and sediment control requirements for construction sites so as to provide effective and appropriate control measures.

BMP 5B – Continue to ensure compliance with DEP GP registration requirements for all projects exceeding the one-acre threshold.

BMP 5C - Continue requirements for construction site operators to implement appropriate erosion and sediment control BMPs.

BMP 5D - Continue requirements for construction site operators to control waste at construction sites. In addition, the Town will re-examine the waste control performance principles in the Town's Stormwater Management Plan to ensure conformity with the details of those performance principles.

BMP 5E - Continue requirements for review of site plans prior to construction to ensure inclusion of erosion and sediment controls and post-construction controls in compliance with local ordinances and Connecticut Guidelines for Soil Erosion and Sediment Control.

BMP 5F - Continue to train plan reviewers and attend any relevant training seminars so as to stay current with erosion and sediment controls. In addition, the Town will avail its employees of training opportunities offered by the QRWA and DEP.

BMP 5G - Continue to inspect all construction sites meeting CTDEP threshold criteria and to inspect all construction sites at least once.

Post-Construction Stormwater Management

BMP 6A – Continue to review and evaluate the Town's erosion and sediment control requirements for construction sites so as to provide for the installation and proper maintenance of post-construction runoff controls in compliance with state and local laws.

BMP 6B - Continue to develop and implement strategies that include a combination of structural and/or non-structural BMPs.

BMP 6C – Continue to address post-construction stormwater runoff during the plan review, construction inspection, and post-construction maintenance inspection process.

Pollution Prevention and Good Housekeeping for Municipal Operations

BMP 7A - Explore development of a separate O & M Plan, including new BMPs that reduce pollutants in stormwater.

BMP 7B - Develop and implement a training program for public employees under the Municipal Stormwater Program to provide education on pollution prevention and good housekeeping practices.

BMP 7C - Formalize the schedule and record-keeping of catch basin cleaning and integrate such activities into an overall pollution prevention O & M Plan.

BMP 7D - Formalize the schedule and record-keeping of street sweeping activities into an overall pollution prevention O & M Plan.

Changes in Measurable Goals or Implementation Dates

Measurable goals have not changed appreciably from the original 2004 Stormwater Management Plan, except in some cases to re-evaluate and update measurable goals during 2010. Changed conditions or experiences gained from 2004 through 2009 may result in changes in measurable goals for 2010.

Implementation dates, as detailed previously in this report have only changed in cases where measurable goals were not achieved as originally planned in the 2004 Plan. Those implementation dates have been adjusted to December 31, 2010 so that the Town of North Haven will gain compliance with GP provisions that had not been achieved previously.

Certification Statement of Chief Elected Official

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.

Michael J. Freda
First Selectman
Town of North Haven

(Date)