TOWN OF NATICK
MASSACHUSETTS

CHARLES J. SISITSKY
DIRECTOR

P 5/1/08

April 28, 2008

Ann Herrick - CIP
United States Environmental Protection Agency – Region 1
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Subject: Year End Report NPDES Permit Number: MAR041139 Town of Natick

Dear Ann:

Please find enclosed the fifth annual report from the Town of Natick regarding the above subject NPDES permit.

Attached to the end of the annual report you will find a "Revised Composite BMP Schedule" dated as of 5/1/07, and a "Revised Composite BMP Schedule" dated as of 5/1/08. These schedules are management tools used by the Town for planning the implementation of the various BMPs. The composite schedule of 5/1/07 details the time line of BMPs followed by the Town during year 4 of the permit. The revised composite schedule as of 5/1/08 reflects revisions that were made during Year 5, after an evaluation of our efforts during the past year, and details the year 5 activities. It is our opinion that the changes provided for a more effective program.

We will assume that unless we hear from you in the contrary, that the submitted annual report and the attached BMP schedule meets with your approval.

Very truly yours,

Mark Coviello, P.E.
Town Engineer

DEPARTMENT OF PUBLIC WORKS • 75 WEST STREET • NATICK, MASSACHUSETTS 01760
TEL. (508) 647-6550 • FAX (508) 647-6560

TOWN OF NATICK

PHASE II STORMWATER MANAGEMENT PLAN

ANNUAL REPORT

MAY, 2008

NPDES PII Small MS4 General Permit
Annual Report

Municipality/Organization:	**Town of Natick, Massachusetts**
EPA NPDES Permit Number:	**MAR041139**
MassDEP Transmittal Number:	**W-035570**
Annual Report Number & Reporting Period:	**Report No. 4: May 1, 2007 – April 30, 2008**

Part I. General Information

Contact Person: Mark Coviello, P.E. Title: Town Engineer
Telephone #: 1-508-647-6551 Email: mcoviello@natickma.org
Mailing Address: 75 West Street, Natick, MA 01760

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: Martha White
Printed Name: Martha White
Title: Town Administrator
Date: April 28, 2008

Part II. Self-Assessment

The Town of Natick has completed the required self-assessment and has determined that our municipality is in substantial compliance with all permit conditions. Although we are not required to assess ourselves in regards to the BMP implementation, goals and schedule within this section, the Town would like to note that due to staffing and budgetary constraints over the last three years, our plan of action had to be modified and schedules shifted. During that time, the Department of Public Works (the department responsible for the implementation of the NPDES Permit for the Town) lost their Stormwater Coordinator and the position was not filled (due to budget cuts). The duties of that position have been distributed to personnel within the Department of Public Works and Community Development, but with the staffing and budgetary constraints, both departments are operating beyond their means. The Town of Natick was still committed to meeting all requirements of their permit, and believes that they will substantially complete all the required tasks by the completion of the fifth year of the permit or slightly thereafter (due to weather delays, budget constraints, etc).

Even with the budget cuts and staffing issues, the Natick Stormwater Committee has been pro-active in trying to ensure that the scheduled tasks are completed by the end of Permit Year 5 and have gone as far to revise their plans on multiple occasions during the past few years. Updating our website was a priority for the Stormwater Committee this year to ensure that the residents have as much information as possible in regards to storm water and what they can do to help the Town keep their storm water clean. The site was completed during Year 5 and the information included has already been useful to many organizations that have viewed it.

The Town has been very active in regards to locating and mapping our storm drainage system. The town is not only mapping the locations of our outfalls but also all drainage structures including pipes, catch basins, etc. These structures are being located using GPS technology which has allowed the town to produce 40 scale drawings which the Town can use in cases of emergency or problems with the storm drainage system or to assist the Town in marking out the storm drains for contractors performing excavation work near the system. Knowing the locations of the storm drainage pipes and structures will minimize the likelihood that contractors will damage our storm drainage system during their excavation work thus protecting water bodies downstream.

As of the writing of this report, 547 outfalls have been identified in our system. This includes both town owned and maintained outfalls as well as outfalls in private development that are not currently under the control of the Town. Of the 547 outfalls, approximately 27 remain to be located using GPS. The locations of these 27 outfalls are generally known; however the inverts and coordinates are not known. It is important to note that many of these 27 are located within the private developments not under Town Control. 268 of the 547 outfalls have been fully inspected and entered into our database. The majority of the remaining 279 outfalls have been inspected during field location work; however follow-up detailed inspections and data entry into our database remain.

The town has also been very active in locating and inspecting culverts within the Town as well which is beyond the scope of this BMP, but it is the feeling of the Town that identifying the entire system as a whole (and all its components) is vitally important to ensuring that the system is managed and maintained in the best possible fashion. Presently 117 culvert inlets and 65 culvert outlets have been identified in our system. Of these, 100 of the 117 inlets and 52 of the 65 outlets have been fully inspected and entered into our database.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Years
1-1	Website Modifications	Department of Public Works	Update Website with • New Info • New Contacts • New Links Continue monitoring the website to ensure that it is up to date and current including all links.	During Year 5, the Town's Stormwater Management Website was completely overhauled to make the page more user-friendly and to contain more information and links that would be useful to the residents of Natick. The contact information page was updated to include phone numbers and email addresses so residents can contact the appropriate party in case of flooding, illicit discharge and/or construction activity concerns.	To ensure that this site is effective, it will be reviewed on a regular basis to make sure that information is current and that links are working. If new information is available that may be useful to residents, it will be included within the website. **Goal Completed**
1-2	Storm Water Flyer to Community Residents	Engineering Department	Distribute flyer to 75% of Natick Residents; Compile and Consider "Survey" results	No work performed for this BMP during Year 5. The flyer was created and distributed to residents during Year 1.	No future work is planned for this BMP. **Goal Completed**
1-3	Storm Water Lesson Plan for Fifth Grade Students	Engineering Department	Develop and Distribute lesson plan for Grade 5 level (Use plan to teach 1 or more Grade 5 classes)	No work performed for this BMP during Year 5. The lesson plan was developed, distributed and taught to fifth graders during Year 2 of the permit.	No future work is planned for this BMP. **Goal Completed**
1-4	Storm Water Flyer to Community Businesses	Engineering Department	Distribute flyer to a minimum of 50% of Natick Businesses, Storm Water Log displayed by half of the businesses receiving the flyer	At the end of Year 4, the Town worked with the SuAsCo Watershed Council to develop a storm water flyer to be sent to community businesses. We received the flyers in March 2007 The town mailed out these flyers to over 50% of Natick Businesses during Permit Year 5.	The town will keep these flyers available for whatever business or resident requests them and will continue to work with the residents and businesses of Natick to educate them about keeping their storm water clean. **Goal Completed**

1-5	Storm Water Media Campaign	Engineering Department	Deliver media information packet to the local media, Issue 4 press releases to local and major media outlets	No work performed on this BMP during Year 5. Informational packets were delivered to media (local and major) outlets during Year 3 of the permit.	No future work is planned for this BMP. **Goal Completed**
1-6	Storm Water Video	Engineering Department	Show Storm Water Video at a minimum of 1 public meeting, and air Storm Water Video at least once on the local cable channel	Through working with SuAsCo, it was deemed too difficult and costly to create a video. It was decided that taking the postcards created under revised BMP 2-7 that give the residents information about storm water and what they can do to help keep their water clean and making them into mini infomercials would reach the most people. It is planned that by the end of the current calendar year the infomercial will be completed and the town will begin working with the local cable channel to display them on their programming.	The Town will continue to work with the local cable channel to ensure that these mini infomercials are being shown on a regular basis.
Revised	Storm Water Infomercials	Engineering Department	Take postcards created under the revised BMP 2-7 and turn them into mini infomercials on the local cable channel to increase awareness of storm water issues both locally and in general		

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Years
2-1	Storm Water Committee	Stormwater Committee	Establish a Stormwater Committee, Hold Quarterly meetings at a minimum	The Stormwater Committee was established during Year 1 of the permit. The Stormwater Committee continued to meet on a regular basis during Year 5 of the permit. These meetings were beneficial to keep the program "on-track" with all the budgetary and staffing issues that we have endured over the last two years.	The Stormwater Committee will continue to meet as regularly as possible to ensure that the storm water issues of the Town are being addressed and discussed.

2-2	Community Hotline	Department of Public Works	Establish a Hotline; Residents Use Hotline and Phone calls indicating suspicious activities are investigated	During Year 5 of the permit, the hotline remained an important part of the Stormwater program. The Town expanded the Stormwater website to include phone numbers and email addresses of appropriate contact personnel in cases of flooding, illicit discharges and construction concerns to make reporting suspicious activity even easier for the residents.	The Town will continue to monitor the hotline to determine the best possible way to ensure that residents can report suspicious activity in an effective way. If modifications need to be made to how this is done, the Town will update accordingly. **Goal Completed**
2-3	Stormwater Traveling Display	Department of Public Works	Storm Water Display circulates around Natick for at least 3 months; Display is Posted at a minimum of 3 different public locations; Posted in public places or at storm water events	The traveling display was purchased during Year 1 of the permit with an additional display being purchased during Year 4. Since its purchase the original display has been located primarily at the Department of Public Works year round. During special events (Town Meeting, Storm Water events, etc), the additional display has been set for viewing by the residents or other attendees of the meeting.	The Town will continue bringing the stormwater display to town-wide events and other gatherings where it will be seen by a large number of residents at one time. **Goal Completed**
Revised		Stormwater Committee	Purchase Additional Traveling Display		
2-4	Storm Water Poster Contest for 5th Grade Students	Department of Public Works	Hold poster Contest, receive entries and judge submissions	No work was planned for this BMP during Year 5. **Goal Completed**	No future work is planned for this BMP. **Goal Completed**
2-5	Storm Water Photo Contest for High School Students	Department of Public Works	Hold Photo Contest, receive entries and judge submissions	This BMP was changed in Year 4 to be a storm drain marking kit. The kits were received in the end of Year 4 and were used by a couple groups (girl scouts) during Year 5 to help educate not only themselves but also their neighborhoods on not dumping anything down their catch basins.	The Stormwater Committee will continue to work to determine the best way to implement this task and get more community groups involved with this BMP. **Goal Completed**
Revised	*Storm Water Drain Marking Kit*	Department of Public Works	Install labels on approximately 200 catch basins		

2-6	Hold a Local Storm Water Summit	Stormwater Committee	Hold community storm water summit and advertise to encourage community attendance	No work performed for this BMP during Year 5. The summit was coordinated and held during Year 3 of the permit schedule.	No work is planned for this BMP in the future. **Goal Completed**
2-7	Participate in SuAsCo Storm Water Super Summit and Conduct an Evaluation and Assessment of Public Awareness of Storm Water	Engineering Department	Participate in Storm Water Super Summit; Storm Water Self Test distributed to a minimum of 75% of Natick residents, Compile and consider "Self Test" Results	Through working with SuAsCo, it was deemed too difficult to implement a Super Summit. It was decided that creating specially designed postcards giving the resident information on storm water and what they can do to help keep it clean would be better. It is planned that by the end of the current calendar year the postcards will be completed and the town will begin the process of sending them to all the residents via their tax bills.	It is planned that this BMP will be completed by the end of the current calendar year so no future work is planned for this BMP. However, these postcards (and associated posters) will be on display at the Department of Public Works as a reminder to the residents to keep their storm water clean.
Revised	Storm Water Postcards	Engineering Department	Create specially designed postcards and send them out via tax bills to all the residents in Natick		

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Years
3-1	Illicit Discharge Bylaw	Board of Health/ Engineering	Develop Illicit Discharge Bylaw and Present it to Town Meeting	No work was performed for this BMP during Year 5. The Department of Public Works and the Conservation Commission will work together to continue implementing the bylaws, rules, and regulations set forth as part of this BMP. **Goal Completed**	No work is planned for this BMP in the future. **Goal Completed**

3-2	Inspect and Sample Town Discharges	Engineering Department	Inspect all Town Discharges; Identify outfalls that indicate potential sewerage or illicit discharges; If Schedule and budget allows, conduct follow-up testing and inspection at discharges with the potential of illicit discharges and/or sewage contamination	The DPW has focused a large amount of time and energy during Year 5 on completing the inspection of all town outfalls. Budget constraints and loss of the storm water coordinator for the town have made it harder to complete, but the DPW personnel have been working hard to locate and inspect all the outfalls prior to the end of Year 5. As of the writing of this report, 268 of the 547 outfalls have been FULLY inspected and entered into our database. The remaining 279 have been inspected during field location work; however, follow-up detailed inspections and data entry remain.	There has been no indication as to what the next 5 year permit will entail; however, the Town will continue to make sure that the locations and conditions of their outfalls are noted and observed and if any new information is available to include it within the database.
3-3	System Mapping and Evaluation	Department of Public Works	Complete system map, structures, pipe databases and coverages; Locate all known discharges with GPS; Conduct Hydraulic modeling of flood prone areas; Add soils and land use to base mapping; Map septic system and provide pumping history	The Town has been very active in completing the mapping of our Storm Drainage system. During Year 5 of the permit, outfalls were located using GPS technology. Also, basins, manholes, culverts, etc were located using the GPS. By doing this, the town can create 40 scale drawings which can be used by the DPW to locate the system in cases of emergency or it can be available to contractors to assist them in knowing the location of the storm drains during their projects which will limit the amount of damage they can do to the system. The Town will continue to complete the entire network mapping of the drainage system.	It is anticipated that by the end of the current calendar year, all outfalls that **CAN** be located will have been located. However, there will still be outfalls that the Town is unable to locate due to field conditions and/or access. Hydraulic analysis/modeling of flood prone areas, using the drainage mapping will continue through the end of the current calendar year. It is the Town's assumption that mapping of the entire drainage system will be stressed in the next permit and that Town will be "ahead of the curve" due to the location work that has been done during the first five year permit.

3-4	Illegal Dumping Education	Stormwater Committee	Educate the public on the hazards of illegal dumping	In conjunction with the educational BMP's listed above, the Stormwater Committee has been continuing to educate the residents of Natick of the hazards of Illegal dumping. This education has come in the form of the flyers to residents and businesses, the summit held in Year 3, the Marking Kit program implemented in Year 4, the Stormwater Traveling Display, and the inclusion of the Town of Natick Stormwater Management Plan on the town website. During Year 5, this education of the residents continued and will continue into the future.	The town is going to continue its efforts of educating residents on the hazards of illegal dumping. This will be done by using all the materials that were obtained by the Town for Permit Years 1 through 5. The town will continue to stress the importance of not dumping illegal and hazardous materials into Natick's storm drain system. **Goal Completed**
3-5	Septic System Controls	Board of Health	Mandate Septic System Maintenance; Create database to track maintenance activities; Update database based on new septic system information	The septic system database is up and running and data entry has been completed; however, the Board of Health is hiring a consultant to help them with the reporting capabilities of the database. The Board of Health believes this will happen relatively quickly and will then be able to finish the septic system regulations so that they can be approved by the Town.	The Board of Health will continue to update and improve the septic system maintenance database. At the end of Year 5 or thereafter, the Board of Health is planning on submitting Septic System Regulations for adoption by the Town. These new regulations will reduce system failures over time by assuring/ mandating system maintenance, effectively reducing the pollution and public health nuisances associated with such failures.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Years
4-1	Soil and Erosion Control Bylaw	Conservation Agent/ Department of Public Works	Develop a Soil and Erosion Control Bylaw and present it to Town Meeting	No work performed for this BMP during Year 5. The Soil and Erosion Control Bylaw was created and approved by Town Meeting during Year 3 of the permit. During Years 4 and 5, the town began implementing this bylaw and working with the Conservation Commission to ensure that it is being followed during construction activities.	The Department of Public Works and the Conservation Commission will work together to continue implementing the bylaws, rules, and regulations set forth as part of this BMP. **Goal Completed**
4-2	Construction Inspections	Conservation Agent/Department of Public Works	Town Representative to inspect Construction Activities on Weekly Basis	During Year 5, as was the case in all previous years of the permit, the Town of Natick has been very active in inspecting construction activities within the Town. **ALL** construction sites in town are inspected and all departments (building, conservation, DPW, Board of Health) make this a priority and it will remain a top priority for the Town even after the conclusion of the EPA permit.	The Town will continue to monitor **ALL** construction activities within the Town of Natick.

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Years
5-1	Bylaw for Post Construction Runoff	Conservation Agent/Department of Public Works	Develop a bylaw to limit runoff from post construction areas and present it to Town Meeting	No work performed for this BMP during Year 5. The Post Construction Runoff Bylaw was created and approved by Town Meeting during Year 3 of the permit. During Year 4 and continuing in Year 5, the town began implementing this bylaw and working with the Conservation Commission and the Building Department to ensure that it is being followed during construction activities.	The Department of Public Works and the Conservation Commission will work together to continue implementing the bylaws, rules, and regulations set forth as part of this BMP. **Goal Completed**
5-2	BMP Inspection and Maintenance	Conservation Agent/Department of Public Works	Inspect all town maintained structural BMP's over a Two Year period; Document any problems with BMP and investigate possible modifications	During the inspections of the Town's outfalls, the town's BMP's have also been inspected and their condition noted. It is assumed that the inspection of these structures will be complete by the end of the current calendar year.	There has been no indication as to what the next 5 year permit will entail; however, the Town will continue to make sure that the locations and conditions of their BMP's are noted and observed and if any new information is available to include it within the database.

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future Years
6-1	Catch Basin Cleaning	Highway Department	Clean 1/3 of all catch basins per year	Starting April 1, a subcontractor will be commencing with the cleaning of approximately 1/3 of all catch basins within Natick. It is scheduled to be completed by the end of Year 5 of the permit or shortly thereafter. This will be done as the first year of a new 3 year contract for the Town to have a subcontractor perform catch basin cleaning throughout Natick.	The Town will continue to clean 1/3 of their catch basins every year as part of the cleaning contract noted in the Year 5 description.

6-2	Street Cleaning	Highway Department	Sweep all town owned streets and parking lots once per year; Sweep downtown areas once per month (Apr-Nov); Sweep Major Streets twice per year; Sweep Town Parking Lots twice per year; Document amount of collected debris; and BUD for Street Sweeping Material Collected	All town streets were swept at least once during Year 5 of the permit. Downtown streets were swept once per month (April to November) while major town streets as well as all town owned parking lots were swept twice per year. The amount of street sweepings and catch basin sediment that was collected was documented by the DPW.	The town will continue its yearly maintenance of the roadways by cleaning the streets per the schedule that was noted in the Year 5 description. The amount of sediment and debris collected will be documented as was the case in every other year of this permit.
6-3	Investigate Town Owned BMP's for Retrofit Opportunities	Department of Public Works	Implement two retrofit projects (based on inspections conducted in BMP 5-2)	As noted in last year's submittal, this BMP was completed during Permit Year 4 (ahead of the originally scheduled timeframe of this permit year).	The Town is always looking for opportunities and places to install retrofit projects and will continue this endeavor in the future. It is important to note that on every new development, the Town is requiring developers to incorporate structural BMPs (such as deep sump catch basins, hoods, etc) into their storm drainage designs.
6-4	Municipal Employee Training	Conservation Agent	Continue town's current practices	During Year 5 of the permit, the town performed the required municipal employee training on two separate days in March/April 2008. Training includes: Hazard Communication, Spill Prevention Control and Countermeasures, Storm Water Management, Stage II Vapor Recovery and "Right to Know". New hires are trained in these areas within their first 30 days of employment.	The training of personnel is an important issue and the Town will continue to be progressive in performing training **Goal Completed**

6a. Additions

6-5	DPW – General Notice of Intent (GNOI)	Department of Public Works	File a NOI for Routine DPW Operations and Maintenance Activities	After its approval at the beginning of Year 5 of the permit, the DPW began working with the Conservation Commission to ensure that the goals of the GNOI were being met. A representative from the DPW and the Conservation Agent met prior to the end of Year 5 of the permit to evaluate the progress of the permit. A report was submitted to the Conservation Commission noting the progress of the DPW in their O&M activities and what changes should be made to the GNOI to ensure that the permit is meeting its intended goals.	The DPW will continue to work with the Conservation Commission (through the Conservation Agent) to implement this General Notice of Intent and modify as is deemed necessary. **Goal Completed**

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

Not applicable. TMDL's have not been developed for any of the water bodies in Natick.

Part IV. Summary of Information Collected and Analyzed

There is no information or data that was collected during Permit Year 4 that is not included elsewhere in this report.

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, 2007 through April 30, 2008)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures **	($)	35,000
Total program expenditures since beginning of permit coverage	($)	Unknown[Note 1]
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		General

Note 1: The annual stormwater program budget of $35,000 covers only the costs for outside services. All other work performed was completed using Town personnel; equipment; and materials. These costs were not tracked.

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	Unknown
Stormwater management committee established	(y/n)	Y
Stream teams established or supported	(# or y/n)	N
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	Y
Shoreline cleaned since beginning of permit coverage	(mi.)	7
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	1
▪ community participation **	(# or %)	277
▪ material collected **	(tons or gal)	Unknown
School curricula implemented	(y/n)	N

Legal/Regulatory

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

Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	97
Estimated or actual number of outfalls	(#)	547
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	98
Mapping method(s)		
▪ Paper/Mylar	(%)	Yes
▪ CADD	(%)	Yes
▪ GIS	(%)	Yes
Outfalls inspected/screened **	(# or %)	143
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	268
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	0
Illicit connections removed **	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	0
% of population on sewer	(%)	87
% of population on septic systems	(%)	13

Construction

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

Post-Development Stormwater Management

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

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	Once/3 years
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	Once/3 years
Qty of structures cleaned **	(#)	1,358
Qty. of storm drain cleaned **	(%, LF or mi.)	700
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	441.75
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Beneficial – Oak Street Facility

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	($)	21,397.50
• Hourly or per basin contract rate **	($/hr or $ per basin)	15.76/basin
• Disposal cost**	($)	Appr. $6,200
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1
• Vacuum truck(s) owned/leased	(#)	2
• Vacuum trucks specified in contracts	(y/n)	N
• % Structures cleaned with clam shells **	(%)	100
• % Structures cleaned with vactor **	(%)	0

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	1
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	2
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	2,508
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Beneficial Use – Oak Street Facility
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	($)	No Assigned Budget
• Hourly or lane mile contract rate **	($/hr. or ln mi.)	Not Calculated
• Disposal cost**	($)	No Cost
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	2
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	N
• % Roads swept with rotary brush sweepers **	%	100
• % Roads swept with vacuum sweepers **	%	0

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	0
▪ Herbicides	(lbs. or %)	Reduced but unable to calculate at time of report
▪ Pesticides	(lbs. or %)	0
Integrated Pest Management (IPM) Practices Implemented	(y/n)	Y

	(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	80% 5% 15%
Pre-wetting techniques utilized **	(y/n or %)	Y
Manual control spreaders used **	(y/n or %)	Y
Zero-velocity spreaders used **	(y/n or %)	N
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	5,592 tons for year Note 2
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	7,469 tons for year Note 2
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100
Storage shed(s) in design or under construction	(y/n or #)	N
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	Y

Note 2: The tonnage for this past year was greater than in previous years. At the time of submission, the information required to do an exact comparison between this past year and previous years was not available so we only were able to put the total amounts used and not a reduction/increase amount.

Water Supply Protection

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

Town of Natick Stormwater Management Plan

Revised Composite BMP Schedule - All Minimum Control Measures As of 5/1/07

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
Minimum Control Measure 1 - Public Education and Outreach					
BMP 1-1 Web Site Modifications					
Add Links to Supply Watershed Information	■				
Add the New Hotline Phone Number (See Minimum Control Measure #2)	■				
BMP 1-2 Storm Water Flyer to Community Residents					
Distribute Flyer to 75% of Natick Residents, Compile and Consider "Survey" Results	■				
BMP 1-3 Storm Water Lesson Plan for Fifth Grade Students					
Develop and Distribute Lesson Plan for Grade 5 Level, Use Plan to Teach One or More Grade 5 Classes		■			
BMP 1-4 Storm Water Flyer to Community Businesses					
Distribute Flyer to a Minimum of 50% of Natick Businesses, Storm Water Logo Displayed by Half of the Businesses Receiving the Flyer				■	
BMP 1-5 Storm Water Media Campaign					
Deliver Media Information Packet to the Local Media, Issue 4 Press Releases to Local Media and Major Media Outlets			■		
BMP 1-6 Storm Water Video					
Show Storm Water Video At a Minimum of One Public Meeting, and Air Storm Water Video At Least Once on the Local Cable Channel					■
Minimum Control Measure 2 - Public Involvement and Participation					
BMP 2-1 Storm Water Committee					
Establish the Storm Water Committee	■				
Hold Quarterly Meetings at a Minimum	■	■	■	■	■
BMP 2-2 Community Hotline					
Establish a Hotline	■				
Residents Use Hotline and Phone Calls Indicating Suspicious Activities Are Investigated		■	■	■	■
BMP 2-3 Storm Water Traveling Display					
Storm Water Display Circulates Around Natick for At Least 3 Months	■				
Display is Posted at a Minimum of 3 Different Public Locations	■				
Posted in Public Places or at Storm Water Events. Purchased Additional Display.	■	■	■	■	■
BMP 2-4 Storm Water Poster Contest for Fifth Grade Students					
Poster Contest Held, Entries Received and Judged			■		
BMP 2-5 Storm Water Drain Marking Kits					
Install Labels on Approximately 200 Catch Basins				■	■
BMP 2-6 Hold a Local Storm Water Summit					
Hold Community Storm Water Summit and Advertise to Encourage Community Attendance			■		
BMP 2-7 Participate in SuAsCo Storm Water Super Summit and Conduct an Evaluation and Assessment of Public Awareness of Storm Water					
Participate in Storm Water Super Summit					■
Storm Water Self Test Distributed to a Minimum of 75% of Natick Residents, Compile and Consider "Self Test" Results					■
Minimum Control Measure 3 - Illicit Discharge Detection and Elimination					
BMP 3-1 Illicit Discharge Bylaw					
Develop Illicit Discharge Bylaw and Present it to the Town Meeting			■		
BMP 3-2 Inspect and Sample Town Discharges					
Inspect All Town Discharges		■			■
Identify Outfalls That Indicate Potential Sewerage or Illicit Discharges					■
If Schedule and Budget Allows Conduct Follow-Up Testing & Inspection at Discharges With The Potential of Illicit Dischages and/or Sewage Contamination					■
BMP 3-3 System Mapping & Evaluation					
Complete System Map and Structure and Pipe Databases and Coverages	■	■	■	■	■
Locate All Known Discharges with GPS	■	■	■	■	■
Conduct Hydraulic Modeling of Flood Prone Areas		■	■	■	■
Add Soils and Land Use to Base Mapping		■	■	■	
Map Septic System and Provide Pumping History		■	■	■	
BMP 3-4 Illegal Dumping Education					
Actions Implemented by the SuAsCo Watershed Community Council	■	■	■	■	■
BMP 3-5 Septic System Controls					
Mandate Septic System Maintenance					■
Create a Database to Track Septic System Maintenance Activities	■	■			
Update Database Based on New Septic System Information		■	■	■	■
Minimum Control Measure 4 - Construction Site Storm Water Runoff Control					
BMP 4-1 Soil and Erosion Control Bylaw					
Develop a Soil and Erosion Control Bylaw and Present it to the Town Meeting			■		
BMP 4-2 Construction Inspections					
Town Representative to Inspect Construction Activities on Weekly Basis	■	■	■	■	■
Minimum Control Measure 5 - Post Construction Site Controls					
BMP 5-1 Bylaw for Post Construction Runoff					
Develop a Bylaw to Limit Runoff From Post Construction Areas and Present it to the Town Meeting			■		
BMP 5-2 BMP Inspection and Maintenance					
Inspect All Town Maintained Structural BMPs Over A Two Year Period					■
Document Any Problems With BMP And Investigate Possible Modifications					■
Minimum Control Measure 6 - Pollution Prevention and Good Housekeeping					
BMP 6-1 Catch Basin Cleaning					
Clean 1/3 of All Catch Basins Per Year	■	■	■	■	■
BMP 6-2 Street Cleaning					
Sweep All Town Owned Streets & Parking Lots Once Per Year	■	■	■	■	■
Sweep Downtown Areas Once Per Month (April Through November)	■	■	■	■	■
Sweep Major Streets Twice Per Year			■	■	■
Sweep Town Parking Lots Twice Per Year			■	■	■
Document Amount of Collected Debris (Street Sweepings & Catch Basin Cleanings)	■	■	■	■	■
BUD for Street Sweeping Material Collected	■				
BMP 6-3 Investigate Town Owned BMPs, for Retrofit Oppurtunities					
Implement Two Retrofit Projects (Based on Inspections Conducted in BMP 5-2)				■	
BMP 6-4 Municipal Employee Training					
Continue Town's Current Practices	■	■	■	■	■
BMP 6-5 DPW - General Notice of Intent					
Filed an NOI for Routine DPW Operations and Maintenance Activities				■	

■ Completed Stated Goal
■ Remaining Scheduled Goals
■ Portion of Multi-Year Goal Completed

Town of Natick Stormwater Management Plan

Revised Composite BMP Schedule - All Minimum Control Measures As of 5/1/08

BMP	Year 1	2	3	4	5
Minimum Control Measure 1 - Public Education and Outreach					
BMP 1-1 Web Site Modifications					
Add Links to Supply Watershed Information	■				■
Add the New Hotline Phone Number (See Minimum Control Measure #2)	■				■
BMP 1-2 Storm Water Flyer to Community Residents					
Distribute Flyer to 75% of Natick Residents, Compile and Consider "Survey" Results	■				
BMP 1-3 Storm Water Lesson Plan for Fifth Grade Students					
Develop and Distribute Lesson Plan for Grade 5 Level, Use Plan to Teach One or More Grade 5 Classes		■			
BMP 1-4 Storm Water Flyer to Community Businesses					
Distribute Flyer to a Minimum of 50% of Natick Businesses, Storm Water Logo Displayed by Half of the Businesses Receiving the Flyer				■	■
BMP 1-5 Storm Water Media Campaign					
Deliver Media Information Packet to the Local Media, Issue 4 Press Releases to Local Media and Major Media Outlets			■		
BMP 1-6 Storm Water Informercial					
Show Storm Water Infomercial on Public Access television on regular basis and work to get a copy of it on the Stormwater Management Page of the Town of Natick's Webpage					■
Minimum Control Measure 2 - Public Involvement and Participation					
BMP 2-1 Storm Water Committee					
Establish the Storm Water Committee	■				
Hold Quarterly Meetings at a Minimum	■	■	■	■	■
BMP 2-2 Community Hotline					
Establish a Hotline	■				
Residents Use Hotline and Phone Calls Indicating Suspicious Activities Are Investigated		■	■	■	■
BMP 2-3 Storm Water Traveling Display					
Storm Water Display Circulates Around Natick for At Least 3 Months	■				
Display is Posted at a Minimum of 3 Different Public Locations	■				
Posted in Public Places or at Storm Water Events. Purchased Additional Display.	■	■	■	■	■
BMP 2-4 Storm Water Poster Contest for Fifth Grade Students					
Poster Contest Held, Entries Received and Judged			■		
BMP 2-5 Storm Water Drain Marking Kits					
Install Labels on Approximately 200 Catch Basins				■	■
BMP 2-6 Hold a Local Storm Water Summit					
Hold Community Storm Water Summit and Advertise to Encourage Community Attendance			■		
BMP 2-7 Stormwater Education Postcards to Natick Residents					
Various Stormwater themed postcards will be sent to all Natick Residents educating them on Stormwater issues					■
Minimum Control Measure 3 - Illicit Discharge Detection and Elimination					
BMP 3-1 Illicit Discharge Bylaw					
Develop Illicit Discharge Bylaw and Present it to the Town Meeting			■		
BMP 3-2 Inspect and Sample Town Discharges					
Inspect All Town Discharges		■			■
Identify Outfalls That Indicate Potential Sewerage or Illicit Discharges					■
If Schedule and Budget Allows Conduct Follow-Up Testing & Inspection at Discharges With The Potential of Illicit Discharges and/or Sewage Contamination					■
BMP 3-3 System Mapping & Evaluation					
Complete System Map and Structure and Pipe Databases and Coverages	■	■	■	■	■
Locate All Known Discharges with GPS	■	■	■	■	■
Conduct Hydraulic Modeling of Flood Prone Areas		■	■	■	■
Add Soils and Land Use to Base Mapping		■	■	■	
Map Septic System and Provide Pumping History		■	■	■	
BMP 3-4 Illegal Dumping Education					
Actions Implemented by the SuAsCo Watershed Community Council	■	■	■	■	■
BMP 3-5 Septic System Controls					
Mandate Septic System Maintenance					■
Create a Database to Track Septic System Maintenance Activities	■	■			
Update Database Based on New Septic System Information		■	■	■	■
Minimum Control Measure 4 - Construction Site Storm Water Runoff Control					
BMP 4-1 Soil and Erosion Control Bylaw					
Develop a Soil and Erosion Control Bylaw and Present it to the Town Meeting			■		
BMP 4-2 Construction Inspections					
Town Representative to Inspect Construction Activities on Weekly Basis	■	■	■	■	■
Minimum Control Measure 5 - Post Construction Site Controls					
BMP 5-1 Bylaw for Post Construction Runoff					
Develop a Bylaw to Limit Runoff From Post Construction Areas and Present it to the Town Meeting			■		
BMP 5-2 BMP Inspection and Maintenance					
Inspect All Town Maintained Structural BMPs Over A Two Year Period					■
Document Any Problems With BMP And Investigate Possible Modifications					■
Minimum Control Measure 6 - Pollution Prevention and Good Housekeeping					
BMP 6-1 Catch Basin Cleaning					
Clean 1/3 of All Catch Basins Per Year	■	■	■	■	■
BMP 6-2 Street Cleaning					
Sweep All Town Owned Streets & Parking Lots Once Per Year	■	■	■	■	■
Sweep Downtown Areas Once Per Month (April Through November)	■	■	■	■	■
Sweep Major Streets Twice Per Year			■	■	■
Sweep Town Parking Lots Twice Per Year			■	■	■
Document Amount of Collected Debris (Street Sweepings & Catch Basin Cleanings)	■	■	■	■	■
BUD for Street Sweeping Material Collected	■				
BMP 6-3 Investigate Town Owned BMPs, for Retrofit Opportunities					
Implement Two Retrofit Projects (Based on Inspections Conducted in BMP 5-2)				■	
BMP 6-4 Municipal Employee Training					
Continue Town's Current Practices	■	■	■	■	■
BMP 6-5 DPW - General Notice of Intent					
Filed an NOI for Routine DPW Operations and Maintenance Activities				■	

■ Completed Stated Goal

■ Remaining Scheduled Goals

■ Substantially Complete. Should be completed by end of calendar year