

H-1436-1-01
September 16, 2011



U.S. Environmental Protection Agency – New England Region
Office of Environmental Stewardship
5 Post Office Square
Boston, MA 02109-3912
Attn: Denny Dart (OES 04-4)

Re: **Request for Information Pursuant to Section 3087 of the Clean Water Act**
EPA Docket No. 11-308-063
Annual Report – Years 6, 7 and 8
NPDES General Permit MS4
EPA MAR041009/DEP W-035925
Town of Hampden, Massachusetts

Dear Ms. Dart:

On behalf of the Town of Hampden, attached are the Annual Reports for Years 6, 7 and 8 documenting the Town's implementation of its Stormwater Management Program in compliance with the National Pollutant Discharge Elimination System (NPDES) Phase II for Municipal Separate Storm Sewer Systems (MS4). Hampden is a small town of 5,134 persons, and relies on a limited staff and volunteers to meet the many needs of the Town. Approximately 26% of the Town has been mapped as urbanized area.

Town staff with knowledge of the stormwater related activities under the NPDES program had limited availability to address the Annual Report requirements this summer, due to activities related to conditions beyond their control, including a tornado and several microbursts. The response and cleanup related to these events have taxed Town staff. We recently met with Town officials to identify activities conducted during Years 6, 7 and 8 of the NPDES MS4 permit and provide the attached Annual Reports for your files.

Should you have any questions regarding this letter or attached Annual Reports, please contact me at (413) 572-3256. Thank you for your attention in this matter.

Very truly yours,

TIGHE & BOND, INC.

Tracy J. Adamski, AICP
Senior Planner

Enclosures

Copy: Fred Civian, MassDEP (w/encl)
Rick Green, Town of Hampden (w/encl)
Dana Pixley, Town of Hampden (w/encl)

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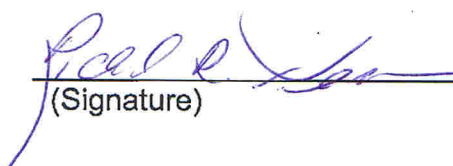


Attachment No. 3

Statement of Certification

I declare under penalty of perjury that I am authorized to respond on behalf of the Town of Hampden. I certify that the foregoing responses and information submitted were prepared under my direction or supervision and that I have personal knowledge of all matters set forth in the responses and the accompanying information. I certify that the responses are true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

By


(Signature)

Chief Board of Selectmen
(Title)

9/15/11
(Date)

Municipality/Organization: Town of Hampden

EPA NPDES Permit Number: MAR041009

MaDEP Transmittal Number: W- 035925

Annual Report Number

& Reporting Period: No. 6: March 08-March 09

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Richard R. Green

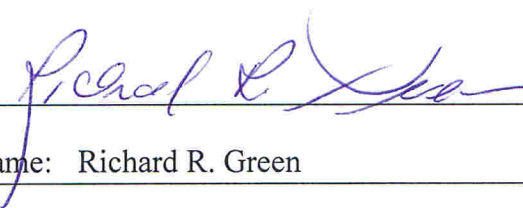
Title: Selectman

Telephone #: 413-566-2151

Email: selectmen@hampden.org

Certification:

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

Signature: 

Printed Name: Richard R. Green

Title: Chairman, Board of Selectmen

Date: 9/15/11

Part II. Self-Assessment

REPORT OF THE STORMWATER COMMITTEE

In March of 2003, the Town of Hampden submitted a Notice of Intent and a five year Stormwater Management Program as required by the U.S. Environmental Protection Agency (EPA). The Program consists of various tasks and timelines which address 6 Minimum Controls as outlined by the EPA. One such task, delineated under the Planning Board's responsibility, was the formation of a Stormwater Committee.

The nine member committee consists of members from the Board of Selectmen, Highway Department, Planning Board, School Department, and Citizens of Hampden. Our goal is to protect our natural resources by overseeing the implementation of the Stormwater Program in an efficient and economic manner.

The Committee forwarded the goals of EPA's 6 Minimum Controls by implementing tasks delineated in Notice of Intent/Stormwater Management Program. Some of those tasks include: setting up an educational display, sending out educational information to residents, placing stormwater links on the Town Website, stenciling storm drains, compiling existing outfall information, and drafting and gaining Town Meeting approval of required by-laws. The Erosion and Sediment Control for Stormwater Management Bylaw was approved at the April 28, 2008.

I would like to take this opportunity to thank the Committee and Community volunteers for their valuable time, effort and dedication which will make this program a success.

Joseph P. Kruzel, Chairman
Duane Mosier
Dana Pixley
Denise Feidler
Steve Libby
Neil Flynn
Jean Hall
Karl Sternberg
Mike Gerrard

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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
1A	Educational Displays	Board of Health (Stormwater Committee)	One display at municipal building per year. Year 1-5	Posted large poster received from EPA in town hall.	Change poster in town hall annually
Revised					
1B	Educational Pamphlets	Board of Health (Stormwater committee)	One town-wide mailing per year. Year 1-5	Made “10 Things You can Do to Prevent Stormwater Runoff Pollution” educational bookmarks available to the public at the library.	Continue to educate the public by mailing / providing educational information at public locations
Revised					
1C	Classroom Education	School Department	One Stormwater topic per year minimum (4 th through 6 th grade) Year 1-5	Taught curriculum for grades 7 and 8. Topics included Water Erosion and Water Quality Monitoring. Includes a field trip to a nearby stormwater outfall.	Continue to teach Stormwater topics through future years and modify as necessary.
Revised			Changed grades to 7 th through 8 th		
1D	Community Website & Hotline	Board of Selectman	Post information and link to DEP Website	Posted Stormwater Committee information on Town Website along with a committee Email address, illicit discharge hotline phone number, links to DEP and EPA websites, and household, construction and commercial educational information.	Update web page annually as necessary.
Revised					
1E	Hazardous Waste Collection Day	Board of Health	Publicize and support annual 5-town collection event.	Published press release for Hazardous Waste Collection day which was held on September 13, 2008. During the event 600 gallons of waste were collected along with a few Mercury thermometers.	Continue to support a hazardous waste collection day.
Revised					
Revised					

1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
2A	Adopt-a-Road	Board of Health/DPW	Support Annual pickup of urban area roads, year 1-5	Adopt –a –Road program held successful cleanup in May 14, 2008.	Continue Adopt -a-Road program
Revised					
2B	Storm Drain Stenciling	DPW	Form program, Target 10% of Town’s catch basins annually, year 1-5.	DPW identified 240 catch basins in affected area. The Hampden DPW enlisted the help of the Boy Scouts of America to stencil 240 catch basins in years 1 through 5.	Scheduled additional catch basin stenciling as needed
Revised					
2C	Stormwater Committee	Planning Board	Initiate and set agenda year 1. Administer SMP year 2-5	The Hampden Stormwater Committee was formed in September 2003 by The Planning Board. The committee is made up of seven volunteers from the community, Planning Board, Conservation Commission, DPW, and School Department. The committee met as needed to administer the SMP and related stormwater issues.	Continue to develop and administer the Town’s SMP and monitor stormwater related activities.
Revised					
2D	Attitude Survey	Planning Board	1 st survey to set baseline year 2. 2 nd survey to measure progress and awareness in year 5.	The Stormwater Committee developed a survey and reviewed results of survey. Few completed surveys were received. Surveys indicate that respondents have an understanding of stormwater.	
Revised					

2a. Additions

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3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
3A	Mapping Stormwater outfalls	DPW	Compile map year 1. Field inspect /verify 25% of outfalls annually year 2-5.	Mapped all outfalls on Town map and continued field verification/inspection. With the assistance of local Eagle Scouts, outfalls were verified and a detailed report with photographs, condition, size and type was compiled.	Continue field verification of outfalls and correct map as needed. Identify and disconnect any illicit discharges/connections.
Revised					
3B	DPW Employee Education	DPW	Training under BMP #6C year 1 to recognize Illicit discharges. Annual refresher years 2-5.	DPW employees received a refresher course on illicit discharges, common signs of contamination in catch basins and actions to follow if such contaminants are found.	Annual refresher and expanded training as necessary.
Revised					
3C	Non-Stormwater discharge ordinance.	Board of Health/Planning Board	Evaluate existing procedures Year 1. Draft by-law Year 2. Proposed for adoption Year 3. Enforce Years 4-5.	By-law approved at April 25, 2005 Town Meeting. Implemented and monitored new illicit discharge bylaw.	Continue to monitor and implement illicit discharge bylaw.
Revised					
3D	Develop Illicit Discharge Plan	Board of Selectman	Evaluate and draft plan year 1. Propose for adoption Year 2. Implement Years 3-5.	Evaluated existing requirements regarding discharges to Stormwater system. Inspected outfalls. Developed Notices to inform property owners of identified illicit discharges. Issued notices and follow-up for removal of illicit discharges.	Continue inspections, issuing notices and follow-up on identified illicit discharges.
Revised					
Revised					

3a. Additions

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4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
4A	Construction Runoff Ordinance	Planning Board	Evaluate Existing Regulations Year 1. Draft revisions Year 2. Propose for adoption Year 3. Enforce Years 3-5.	Developed an erosion control bylaw for construction and post construction activities. Erosion and Sediment Control for Stormwater Management Bylaw was approved at April 28, 2008 Town Meeting. Implemented and monitored new erosion control bylaw.	Continue to implement and monitor new Erosion and Sediment Control for Stormwater Management bylaw.
Revised					
4B	Construction Plan Review	Planning Board	Enforce under existing Town regulations Years 1 and 2. Enforce under adopted bylaw Years 3-5.	Planning Board reviewing construction plans under new Erosion and Sediment Control for Stormwater Management bylaw.	Continue to review construction under new Erosion and Sediment Control for Stormwater Management bylaw.
Revised					
4C	Inspection /Reporting	Building Inspector	Enforce under existing Town regulations Years 1 and 2. Enforce under adopted bylaw Years 3-5.	Continuing inspection and reporting under new Erosion and Sediment Control for Stormwater Management bylaw.	Continuing inspection and reporting under new Erosion and Sediment Control for Stormwater Management bylaws.
Revised					
4D	Building Permit Application	Building Inspector	Include requirement for sites >1 acre to supply EPA permit number to trigger notice Year 1.	Require compliance with Erosion and Sediment Control for Stormwater Management bylaw.	Require compliance with Erosion and Sediment Control for Stormwater Management bylaw.
Revised					

4a. Additions

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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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
5A	Post Construction Runoff Ordinance	Planning Board	Evaluate current regulations Year 1. Draft amendments Year 2. Propose adoption for Year 3. Enforce Years 3-5.	Reviewed Zoning, Subdivision, Wetlands, and General Bylaws as they apply to construction runoff, sedimentation and erosion. Developed an Erosion and Sediment Control for Stormwater Management bylaw for construction and post construction activities. Bylaw was approved at April 28, 2008 Town Meeting. Implemented and monitored Erosion and Sediment Control for Stormwater Management bylaw.	Continue to implement and monitor new Erosion and Sediment Control for Stormwater Management bylaw.
Revised					
5B	Site Plan Review	Planning Board	Enforce under existing Town regulations Years 1 and 2. Enforce under adopted bylaw Years 3-5.	Planning Board reviewing construction plans under new Erosion and Sediment Control for Stormwater Management bylaw.	Continue to review construction under Erosion and Sediment Control for Stormwater Management bylaw.
Revised					
5C	Stormwater System Management Plan	Planning Board	Enforce under existing Town regulations Years 1 and 2. Enforce under adopted bylaw Years 3-5.	Continuing inspection and reporting under new Erosion and Sediment Control for Stormwater Management bylaw.	Continuing inspection and reporting under new Erosion and Sediment Control for Stormwater Management bylaws.
Revised					
5D	Training of Town Officials	Board of Selectman	Initial Training on new bylaws Year 3.	No action at this time.	Town officials have incorporated new bylaws into project review, permitting, and enforcement.
Revised					

5a. Additions

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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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
6A	Municipal Maintenance Activity Program	Board of Health	Evaluate and draft additional policies as necessary Year 1. Comply Years 2-5.	Reviewed all new policies and procedures regarding Municipal Maintenance as part of the NPDES requirements. Developed policies for addressing waste oil, educated employees.	Review and update annually as necessary.
Revised					
6B	Training of Municipal Employees	Board of Health/DPW	Initial training year 2. Annual refresher Years 3-5.	Reviewed all new policies and procedures regarding Municipal Maintenance as part of the NPDES requirements. Employees were informed of the requirements and items they should be able to identify and either correct or report to the Superintendent.	Initial training with annual refresher training in future years.
Revised					
6C	Stormwater Pollution Prevention Plan	Board of Selectman	Compliance with SWPPP Years 1-5.	Stormwater pollution prevention plan has been developed for the Transfer Station.	Review plan annually and revise as necessary. A Stormwater Pollution Prevention Plan will be developed for the DPW once DEP requirements for highway departments have been finalized.
Revised					
6D	Catch Basin Cleaning Program	DPW	Clean 15% in urbanized area Year 1. Clean 25% of remaining Years 2-5.	At least 25% of catch basins were inspected and cleaned in the urbanized area of Hampden. Materials were properly disposed of within the guidelines of a DEP issued BUD.	Continue to inspect, prioritize and clean catch basins as required.
Revised					

6a. Additions

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

The Town continues to inspect outfalls and catch basins, and issues notices and works with property owners to address any illegal discharges into Hampden's MS4 system.

Part V. Program Outputs & Accomplishments (OPTIONAL)**Programmatic**

Stormwater management position created/staffed	(y/n)	
Annual program budget/expenditures	(\$)	

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	
Stream teams established or supported	(# or y/n)	
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	

Legal/Regulatory

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

Mapping and Illicit Discharges

Outfall mapping complete	(%)	
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	
Illicit discharges identified	(#)	
Illicit connections removed	(#) (est. gpd)	
% of population on sewer	(%)	
% of population on septic systems	(%)	

Construction

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

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections completed	(# or %)	
Estimated volume of stormwater recharged	(gpy)	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	
Total number of structures cleaned	(#)	
Storm drain cleaned	(LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		
Cost of screenings disposal	(\$)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	

Qty. of sand/debris collected by sweeping	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	
Cost of sweepings disposal	(\$)	
Vacuum street sweepers purchased/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	

Reduction in application on public land of: (“N/A” = never used; “100%” = elimination)		
▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	

Anti-/De-Icing products and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized	(y/n)	
Manual control spreaders used	(y/n)	
Automatic or Zero-velocity spreaders used	(y/n)	
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	
Storage shed(s) in design or under construction	(y/n)	

Municipality/Organization: Town of Hampden

EPA NPDES Permit Number: MAR041009

MaDEP Transmittal Number: W- 035925

Annual Report Number

& Reporting Period: No. 7: March 09-March 10

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Richard R. Green

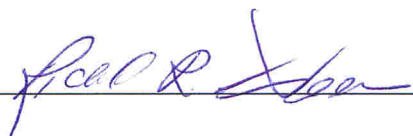
Title: Selectman

Telephone #: 413-566-2151

Email: selectmen@hampden.org

Certification:

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

Signature: 

Printed Name: Richard R. Green

Title: Chairman, Board of Selectmen

Date: 9/15/11

Part II. Self-Assessment

REPORT OF THE STORMWATER COMMITTEE

In March of 2003, the Town of Hampden submitted a Notice of Intent and a five year Stormwater Management Program as required by the U.S. Environmental Protection Agency (EPA). The Program consists of various tasks and timelines which address 6 Minimum Controls as outlined by the EPA. One such task, delineated under the Planning Board's responsibility, was the formation of a Stormwater Committee.

The nine member committee consists of members from the Board of Selectmen, Highway Department, Planning Board, School Department, and Citizens of Hampden. Our goal is to protect our natural resources by overseeing the implementation of the Stormwater Program in an efficient and economic manner.

The Committee forwarded the goals of EPA's 6 Minimum Controls by implementing tasks delineated in Notice of Intent/Stormwater Management Program. Many of the tasks started by the Committee continue to be implemented by others, including the Highway Department, Board of Health, Board of Selectmen and teachers at the Thornton Burgess Middle School. The stormwater-related bylaws are being implemented and enforced by the Town.

The effort and dedication of the Committee and Community volunteers as well as Town staff make this program a success.

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 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 8
1A	Educational Displays	Board of Health (Stormwater Committee)	One display at municipal building per year. Year 1-5	Posted large poster received from EPA in town hall.	Change poster in town hall annually
Revised					
1B	Educational Pamphlets	Board of Health (Stormwater committee)	One town-wide mailing per year. Year 1-5	Made “10 Things You can Do to Prevent Stormwater Runoff Pollution” educational bookmarks available to the public at the library.	Continue to educate the public by mailing / providing educational information at public locations
Revised					
1C	Classroom Education	School Department	One Stormwater topic per year minimum (4 th through 6 th grade) Year 1-5	Taught curriculum for grades 7 and 8. Topics included Water Erosion and Water Quality Monitoring. Includes a field trip to a nearby stormwater outfall.	Continue to teach Stormwater topics through future years and modify as necessary.
Revised			Changed grades to 7 th through 8th		
1D	Community Website & Hotline	Board of Selectman	Post information and link to DEP Website	Posted Stormwater Committee information on Town Website along with a committee Email address, illicit discharge hotline phone number, links to DEP and EPA websites, and household, construction and commercial educational information.	Update web page annually as necessary.
Revised					
1E	Hazardous Waste Collection Day	Board of Health	Publicize and support annual 5-town collection event.	Published press release for Hazardous Waste Collection day which was held on September 12, 2009. During the event 345 gallons of waste were collected along with a few Mercury thermometers.	Continue to support a hazardous waste collection day.
Revised					
Revised					

1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 8
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Revised					
2B	Storm Drain Stenciling	DPW	Form program, Target 10% of Town’s catch basins annually, year 1-5.	DPW identified 240 catch basins in affected area. The Hampden DPW enlisted the help of the Boy Scouts of America to stencil 240 catch basins in years 1 through 5.	Scheduled additional catch basin stenciling as needed
Revised					
2C	Stormwater Committee	Planning Board	Initiate and set agenda year 1. Administer SMP year 2-5	The Hampden Stormwater Committee was formed in September 2003 by The Planning Board. The committee is made up of seven volunteers from the community, Planning Board, Conservation Commission, DPW, and School Department. The committee met as needed to administer the SMP and related stormwater issues.	Continue to develop and administer the Town’s SMP and monitor stormwater related activities.
Revised					
2D	Attitude Survey	Planning Board	1 st survey to set baseline year 2. 2 nd survey to measure progress and awareness in year 5.	Survey was developed and results analyzed in year 6. No further surveys are proposed at this time.	
Revised					

2a. Additions

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3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 8
3A	Mapping Stormwater outfalls	DPW	Compile map year 1. Field inspect /verify 25% of outfalls annually year 2-5.	Mapped all outfalls on Town map and continued field verification/inspection. With the assistance of local Eagle Scouts, outfalls were verified and a detailed report with photographs, condition, size and type was compiled.	Continue field verification of outfalls and correct map as needed. Identify and disconnect any illicit discharges/connections.
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Revised					
3C	Non-Stormwater discharge ordinance.	Board of Health/Planning Board	Evaluate existing procedures Year 1. Draft by-law Year 2. Proposed for adoption Year 3. Enforce Years 4-5.	By-law approved at April 25, 2005 Town Meeting. Implemented and monitored new illicit discharge bylaw.	Continue to monitor and implement illicit discharge bylaw.
Revised					
3D	Develop Illicit Discharge Plan	Board of Selectman	Evaluate and draft plan year 1. Propose for adoption Year 2. Implement Years 3-5.	Evaluated existing requirements regarding discharges to Stormwater system. Inspected outfalls. Developed Notices to inform property owners of identified illicit discharges. Issued notices and follow-up for removal of illicit discharges.	Continue inspections, issuing notices and follow-up on identified illicit discharges.
Revised					
Revised					

3a. Additions

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4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 8
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Revised					
4D	Building Permit Application	Building Inspector	Include requirement for sites >1 acre to supply EPA permit number to trigger notice Year 1.	Require compliance with Erosion and Sediment Control for Stormwater Management bylaw.	Require compliance with Erosion and Sediment Control for Stormwater Management bylaw.
Revised					

4a. Additions

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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 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 8
5A	Post Construction Runoff Ordinance	Planning Board	Evaluate current regulations Year 1. Draft amendments Year 2. Propose adoption for Year 3. Enforce Years 3-5.	Reviewed Zoning, Subdivision, Wetlands, and General Bylaws as they apply to construction runoff, sedimentation and erosion. Developed an Erosion and Sediment Control for Stormwater Management bylaw for construction and post construction activities. Bylaw was approved at April 28, 2008 Town Meeting. Implemented and monitored Erosion and Sediment Control for Stormwater Management bylaw.	Continue to implement and monitor new Erosion and Sediment Control for Stormwater Management bylaw.
Revised					
5B	Site Plan Review	Planning Board	Enforce under existing Town regulations Years 1 and 2. Enforce under adopted bylaw Years 3-5.	Planning Board reviewing construction plans under new Erosion and Sediment Control for Stormwater Management bylaw.	Continue to review construction under Erosion and Sediment Control for Stormwater Management bylaw.
Revised					
5C	Stormwater System Management Plan	Planning Board	Enforce under existing Town regulations Years 1 and 2. Enforce under adopted bylaw Years 3-5.	Continuing inspection and reporting under new Erosion and Sediment Control for Stormwater Management bylaw.	Continuing inspection and reporting under new Erosion and Sediment Control for Stormwater Management bylaws.
Revised					
5D	Training of Town Officials	Board of Selectman	Initial Training on new bylaws Year 3.	No action at this time.	Town officials have incorporated new bylaws into project review, permitting, and enforcement.
Revised					
Revised					

5a. Additions

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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 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 8
6A	Municipal Maintenance Activity Program	Board of Health	Evaluate and draft additional policies as necessary Year 1. Comply Years 2-5.	Reviewed all new policies and procedures regarding Municipal Maintenance as part of the NPDES requirements. Developed policies for addressing waste oil, educated employees.	Review and update annually as necessary.
Revised					
6B	Training of Municipal Employees	Board of Health/DPW	Initial training year 2. Annual refresher Years 3-5.	Reviewed all new policies and procedures regarding Municipal Maintenance as part of the NPDES requirements. Employees were informed of the requirements and items they should be able to identify and either correct or report to the Superintendent.	Initial training with annual refresher training in future years.
Revised					
6C	Stormwater Pollution Prevention Plan	Board of Selectman	Compliance with SWPPP Years 1-5.	Stormwater pollution prevention plan has been developed for the Transfer Station.	Review plan annually and revise as necessary. A Stormwater Pollution Prevention Plan will be developed for the DPW once DEP requirements for highway departments have been finalized.
Revised					
6D	Catch Basin Cleaning Program	DPW	Clean 15% in urbanized area Year 1. Clean 25% of remaining Years 2-5.	At least 25% of catch basins were inspected and cleaned in the urbanized area of Hampden. Materials were properly disposed of within the guidelines of a DEP issued BUD.	Continue to inspect, prioritize and clean catch basins as required.
Revised					

6a. Additions

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

The Town continues to inspect outfalls and catch basins, and issues notices and works with property owners to address any illegal discharges into Hampden's MS4 system.

Part V. Program Outputs & Accomplishments (OPTIONAL)**Programmatic**

Stormwater management position created/staffed	(y/n)	
Annual program budget/expenditures	(\$)	

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	
Stream teams established or supported	(# or y/n)	
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	

Legal/Regulatory

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

Mapping and Illicit Discharges

Outfall mapping complete	(%)	
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	
Illicit discharges identified	(#)	
Illicit connections removed	(#) (est. gpd)	
% of population on sewer	(%)	
% of population on septic systems	(%)	

Construction

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

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections completed	(# or %)	
Estimated volume of stormwater recharged	(gpy)	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	
Total number of structures cleaned	(#)	
Storm drain cleaned	(LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		
Cost of screenings disposal	(\$)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	
Qty. of sand/debris collected by sweeping	(lbs. or tons)	

Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	
Cost of sweepings disposal	(\$)	
Vacuum street sweepers purchased/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	

Reduction in application on public land of: (“N/A” = never used; “100%” = elimination)		
▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	

Anti-/De-Icing products and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized	(y/n)	
Manual control spreaders used	(y/n)	
Automatic or Zero-velocity spreaders used	(y/n)	
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	
Storage shed(s) in design or under construction	(y/n)	

Municipality/Organization: Town of Hampden

EPA NPDES Permit Number: MAR041009

MaDEP Transmittal Number: W-035925

Annual Report Number

& Reporting Period:

No. 8: March 10-March 11

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Richard R. Green

Title: Selectman

Telephone #: 413-566-2151

Email: selectmen@hampden.org

Certification:

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

Signature:



Printed Name: Richard R. Green

Title: Chairman, Board of Selectmen

Date:



Part II. Self-Assessment

REPORT OF THE STORMWATER COMMITTEE

In March of 2003, the Town of Hampden submitted a Notice of Intent and a five year Stormwater Management Program as required by the U.S. Environmental Protection Agency (EPA). The Program consists of various tasks and timelines which address 6 Minimum Controls as outlined by the EPA. One such task, delineated under the Planning Board's responsibility, was the formation of a Stormwater Committee.

The nine member committee consists of members from the Board of Selectmen, Highway Department, Planning Board, School Department, and Citizens of Hampden. Our goal is to protect our natural resources by overseeing the implementation of the Stormwater Program in an efficient and economic manner.

The Committee forwarded the goals of EPA's 6 Minimum Controls by implementing tasks delineated in Notice of Intent/Stormwater Management Program. Many of the tasks started by the Committee continue to be implemented by others, including the Highway Department, Board of Health, Board of Selectmen and teachers at the Thornton Burgess Middle School. The stormwater-related bylaws are being implemented and enforced by the Town.

The effort and dedication of the Committee and Community volunteers as well as Town staff make this program a success.

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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
1A	Educational Displays	Board of Health (Stormwater Committee)	One display at municipal building per year. Year 1-5	Posted large poster received from EPA in town hall.	Change poster in town hall annually
Revised					
1B	Educational Pamphlets	Board of Health (Stormwater committee)	One town-wide mailing per year. Year 1-5	Made “10 Things You can Do to Prevent Stormwater Runoff Pollution” educational bookmarks available to the public at the library.	Continue to educate the public by mailing / providing educational information at public locations
Revised					
1C	Classroom Education	School Department	One Stormwater topic per year minimum (4 th through 6 th grade) Year 1-5	Taught curriculum for grades 7 and 8. Topics included Water Erosion and Water Quality Monitoring. Includes a field trip to a nearby stormwater outfall.	Continue to teach Stormwater topics through future years and modify as necessary.
Revised			Changed grades to 7 th through 8th		
1D	Community Website & Hotline	Board of Selectman	Post information and link to DEP Website	Posted Stormwater Committee information on Town Website along with a committee Email address, illicit discharge hotline phone number, links to DEP and EPA websites, and household, construction and commercial educational information.	Update web page annually as necessary.
Revised					
1E	Hazardous Waste Collection Day	Board of Health	Publicize and support annual 5-town collection event.	Published press release for Hazardous Waste Collection day which was held on September 18, 2010. During the event 300 gallons of waste were collected along with a few Mercury thermometers.	Continue to support a hazardous waste collection day.
Revised					
Revised					

1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
2A	Adopt-a-Road	Board of Health/DPW	Support Annual pickup of urban area roads, year 1-5	Adopt –a –Road program held successful cleanup in May 9, 2010.	Continue Adopt -a-Road program
Revised					
2B	Storm Drain Stenciling	DPW	Form program, Target 10% of Town’s catch basins annually, year 1-5.	DPW identified 240 catch basins in affected area. The Hampden DPW enlisted the help of the Boy Scouts of America to stencil 240 catch basins in years 1 through 5. The catch basins were re-stenciled in 2010 as part of an Eagle Scout project	Scheduled additional catch basin stenciling as needed
Revised					
2C	Stormwater Committee	Planning Board	Initiate and set agenda year 1. Administer SMP year 2-5	The Hampden Stormwater Committee was formed in September 2003 by The Planning Board. The committee is made up of seven volunteers from the community, Planning Board, Conservation Commission, DPW, and School Department. The committee met as needed to administer the SMP and related stormwater issues.	Continue to develop and administer the Town’s SMP and monitor stormwater related activities.
Revised					
2D	Attitude Survey	Planning Board	1 st survey to set baseline year 2. 2 nd survey to measure progress and awareness in year 5.	Survey was developed and results analyzed in year 6. No further surveys are proposed at this time.	
Revised					

2a. Additions

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3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
3A	Mapping Stormwater outfalls	DPW	Compile map year 1. Field inspect /verify 25% of outfalls annually year 2-5.	Mapped all outfalls on Town map and continued field verification/inspection. With the assistance of local Eagle Scouts, outfalls were verified and a detailed report with photographs, condition, size and type was compiled.	Continue field verification of outfalls and correct map as needed. Identify and disconnect any illicit discharges/connections.
Revised					
3B	DPW Employee Education	DPW	Training under BMP #6C year 1 to recognize Illicit discharges. Annual refresher years 2-5.	DPW employees received a refresher course on illicit discharges, common signs of contamination in catch basins and actions to follow if such contaminants are found.	Annual refresher and expanded training as necessary.
Revised					
3C	Non-Stormwater discharge ordinance.	Board of Health/Planning Board	Evaluate existing procedures Year 1. Draft by-law Year 2. Proposed for adoption Year 3. Enforce Years 4-5.	By-law approved at April 25, 2005 Town Meeting. Implemented and monitored new illicit discharge bylaw.	Continue to monitor and implement illicit discharge bylaw.
Revised					
3D	Develop Illicit Discharge Plan	Board of Selectman	Evaluate and draft plan year 1. Propose for adoption Year 2. Implement Years 3-5.	Evaluated existing requirements regarding discharges to Stormwater system. Inspected outfalls. Developed Notices to inform property owners of identified illicit discharges. Issued notices and follow-up for removal of illicit discharges.	Continue inspections, issuing notices and follow-up on identified illicit discharges.
Revised					
Revised					

3a. Additions

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4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
4A	Construction Runoff Ordinance	Planning Board	Evaluate Existing Regulations Year 1. Draft revisions Year 2. Propose for adoption Year 3. Enforce Years 3-5.	Developed an erosion control bylaw for construction and post construction activities. Erosion and Sediment Control for Stormwater Management Bylaw was approved at April 28, 2008 Town Meeting. Implemented and monitored new erosion control bylaw.	Continue to implement and monitor new Erosion and Sediment Control for Stormwater Management bylaw.
Revised					
4B	Construction Plan Review	Planning Board	Enforce under existing Town regulations Years 1 and 2. Enforce under adopted bylaw Years 3-5.	Planning Board reviewing construction plans under new Erosion and Sediment Control for Stormwater Management bylaw.	Continue to review construction under new Erosion and Sediment Control for Stormwater Management bylaw.
Revised					
4C	Inspection /Reporting	Building Inspector	Enforce under existing Town regulations Years 1 and 2. Enforce under adopted bylaw Years 3-5.	Continuing inspection and reporting under new Erosion and Sediment Control for Stormwater Management bylaw.	Continuing inspection and reporting under new Erosion and Sediment Control for Stormwater Management bylaws.
Revised					
4D	Building Permit Application	Building Inspector	Include requirement for sites >1 acre to supply EPA permit number to trigger notice Year 1.	Require compliance with Erosion and Sediment Control for Stormwater Management bylaw.	Require compliance with Erosion and Sediment Control for Stormwater Management bylaw.
Revised					

4a. Additions

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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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
5A	Post Construction Runoff Ordinance	Planning Board	Evaluate current regulations Year 1. Draft amendments Year 2. Propose adoption for Year 3. Enforce Years 3-5.	Reviewed Zoning, Subdivision, Wetlands, and General Bylaws as they apply to construction runoff, sedimentation and erosion. Developed an Erosion and Sediment Control for Stormwater Management bylaw for construction and post construction activities. Bylaw was approved at April 28, 2008 Town Meeting. Implemented and monitored Erosion and Sediment Control for Stormwater Management bylaw.	Continue to implement and monitor new Erosion and Sediment Control for Stormwater Management bylaw.
Revised					
5B	Site Plan Review	Planning Board	Enforce under existing Town regulations Years 1 and 2. Enforce under adopted bylaw Years 3-5.	Planning Board reviewing construction plans under new Erosion and Sediment Control for Stormwater Management bylaw.	Continue to review construction under Erosion and Sediment Control for Stormwater Management bylaw.
Revised					
5C	Stormwater System Management Plan	Planning Board	Enforce under existing Town regulations Years 1 and 2. Enforce under adopted bylaw Years 3-5.	Continuing inspection and reporting under new Erosion and Sediment Control for Stormwater Management bylaw.	Continuing inspection and reporting under new Erosion and Sediment Control for Stormwater Management bylaws.
Revised					
5D	Training of Town Officials	Board of Selectman	Initial Training on new bylaws Year 3.	No action at this time.	Town officials have incorporated new bylaws into project review, permitting, and enforcement.
Revised					

5a. Additions

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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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
6A	Municipal Maintenance Activity Program	Board of Health	Evaluate and draft additional policies as necessary Year 1. Comply Years 2-5.	Reviewed all new policies and procedures regarding Municipal Maintenance as part of the NPDES requirements. Developed policies for addressing waste oil, educated employees.	Review and update annually as necessary.
Revised					
6B	Training of Municipal Employees	Board of Health/DPW	Initial training year 2. Annual refresher Years 3-5.	Reviewed all new policies and procedures regarding Municipal Maintenance as part of the NPDES requirements. Employees were informed of the requirements and items they should be able to identify and either correct or report to the Superintendent.	Initial training with annual refresher training in future years.
Revised					
6C	Stormwater Pollution Prevention Plan	Board of Selectman	Compliance with SWPPP Years 1-5.	Stormwater pollution prevention plan has been developed for the Transfer Station.	Review plan annually and revise as necessary. A Stormwater Pollution Prevention Plan will be developed for the DPW once DEP requirements for highway departments have been finalized.
Revised					
6D	Catch Basin Cleaning Program	DPW	Clean 15% in urbanized area Year 1. Clean 25% of remaining Years 2-5.	At least 25% of catch basins were inspected and cleaned in the urbanized area of Hampden. Materials were properly disposed of within the guidelines of a DEP issued BUD.	Continue to inspect, prioritize and clean catch basins as required.
Revised					

6a. Additions

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

The Town continues to inspect outfalls and catch basins, and issues notices and works with property owners to address any illegal discharges into Hampden's MS4 system.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	
Annual program budget/expenditures	(\$)	

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	
Stream teams established or supported	(# or y/n)	
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	

Legal/Regulatory

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

Mapping and Illicit Discharges

Outfall mapping complete	(%)	
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	
Illicit discharges identified	(#)	
Illicit connections removed	(#) (est. gpd)	
% of population on sewer	(%)	
% of population on septic systems	(%)	

Construction

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

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections completed	(# or %)	
Estimated volume of stormwater recharged	(gpy)	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	
Total number of structures cleaned	(#)	
Storm drain cleaned	(LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		
Cost of screenings disposal	(\$)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	

Qty. of sand/debris collected by sweeping	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	
Cost of sweepings disposal	(\$)	
Vacuum street sweepers purchased/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	

Reduction in application on public land of: (“N/A” = never used; “100%” = elimination)		
▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	

Anti-/De-Icing products and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized	(y/n)	
Manual control spreaders used	(y/n)	
Automatic or Zero-velocity spreaders used	(y/n)	
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	
Storage shed(s) in design or under construction	(y/n)	