

Municipality/Organization: Town of Hull

EPA NPDES Permit Number: MAR041040

MassDEP Transmittal Number: W-046041

Annual Report Number Year 11
& Reporting Period: April 1, 2013 – March 31, 2014

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2014)

Part I. General Information

Contact Person: Joseph Stigliani

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Certification:

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

Signature:

Printed Name: Philip Lemnios

Title: Town Manager

Date: 04/29/14

Part II. Self-Assessment

The Town of Hull has completed the required self-assessment and we have determined that our municipality is in compliance with all permit conditions.

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 11 (Reliance on non-municipal partners indicated, if any)	
1.1	Stormwater Flyer to Community Residences	Stormwater Committee DPW	Development and Distribution of flyer	A Stormwater Management flyer is available at Town Hall, DPW, and on a separate “Stormwater Management” page on the Town’s Website. (Attachment 1)	
Revised					
1.2	Identify and expand on stormwater, watershed, and water quality education in the School System (combined with previous 1.8)	Stormwater Committee, DPW, School Dept.	Implementation of curriculum.	The Hull Memorial Middle School provides environmental education to 6 th grade students through their Earth Science course. The Hull High School offers a number of science and environmental courses dealing with stormwater management as noted in attached program. (Attachment 2)	
Revised					
1.3	Stormwater flyer and survey to community businesses	Stormwater Committee, Conservation Commission, Board of Health	Distribution or make available to all residents and businesses.	(See 1.1 and 1.4)	
Revised					
1.4	Identify and coordinate with local media sources to publicize press releases, meetings, and events	Stormwater Committee and DPW Director	Identify all local media sources, and maintain record of distribution.	Beginning in Year 4, the Town has been issuing press releases to educate the public about the need for proper stormwater management on a regular	

Revised				basis. Frequently, this information is included in press releases about related subjects such as street sweeping. (Attachment 3)	
1.5	Coordinate with local watershed groups on providing a series of lectures to community residents	Stormwater Committee, local watershed groups (i.e., WRWA & SPWA)	Record number of meetings and attendance at all such meetings if possible.	The Town continues to work with local watershed and environmental groups to inform the public about stormwater management issues. Anne Herbst, the Hull Conservation Agent and member of the Town's Stormwater Committee spoke at one of the recent Weir River Watershed meetings. (Attachment 4)	
Revised					
1.6	Consider posting signs at publicly accessible stormwater outfalls			This BMP was determined to be inappropriate and deleted from plan. (However, see 1.9)	
Revised					
1.7	Develop a Stormwater Awareness Package	Stormwater Committee, Board of Selectmen, Conservation Commission	Materials to be included in package compiled. Number of packages distributed.	A "Stormwater Management" flyer/brochure is available at Town Hall and the DPW and a separate "Stormwater Management" page is available on the Town's Website.	
Revised	<i>Combine with 1.2</i>	Combine with 1.2	Combine with 1.2	(See Attachment 1)	

1.8	Meet with local school officials annually to identify past activities and upcoming curriculum. Identify organizations that offer stormwater education resources.	Stormwater Committee, School Department	School Department official contacted, meeting conducted. Each school has designated contact. Organizations identified and contacted.	A representative of the School Department serves on the Town's "Stormwater Management Committee". (Also see 1.2 and 1.5) (Attachment 5)	
Revised					
1.9	Develop Storm Drain Stenciling Program	DPW, Stormwater Committee, Conservation Commission, local watershed groups	Program developed, volunteers organized, basins identified and stenciled	The Town was never able to locate a suitable volunteer for the stenciling program. However, as an alternative the Town is now installing catch basin grates that are marked with "DUMP NO WASTE" and DRAINS TO WATERWAYS' stamped into the grate. All future grates installed in the Town will have this wording. (Photo #1 & Diagram A)	
1.10	Make the Stormwater Management Plan available to the general public	Town Manager, Stormwater Committee	Develop a Plan. Make the Plan available at Town Hall, Library, and in schools as an environmental education resource. Consider putting the plan on the website.	The Town's Stormwater Management Plan, Notice of Intent, and Annual Reports are available at the Town Hall, DPW Office, and Hull Public Library.	
Revised					

1.11	Consider developing a Stormwater Management Web page informing citizens about SWMP waste disposal options, stormwater “friendly” practices, volunteering opportunities, and the status of local beaches	DPW, Conservation Commission, Stormwater Committee, Board of Health, Surf Riders Association	Web page developed. Consider links to other websites such as WRWA, MA DEP, and USEPA.	The Town has a Separate Stormwater Management Web page which it periodically updates and adds new links and information to as it becomes available.	
Revised	<i>Use website to post SWMP and annual report</i>			(See Attachment 1)	

2.3	Stormwater Plan Annual Meeting	Stormwater Committee	Annual meetings planned, noticed, conducted, minutes prepared. Number of attendees. Comments received, considered. (Plan Development, Final Plan, and Annual Report).	The Town of Hull's Stormwater Management Committee's Annual meeting was held on September 12, 2013 and a copy of the Annual Stormwater Meeting sign in sheet has been attached. (Attachment 6)	
Revised					
2.4	Stormwater Traveling Exhibit	Stormwater Committee, School Department, local watershed groups	Consider working with schools and other organizations to develop exhibit. Displayed in several public locations. Prospects identified for future displays.	See BMP 2.6	
Revised					
2.5	Identify and coordinate with neighboring communities in the watershed who are implementing Stormwater Management Plans.	Town Manager, Board of Selectmen, Stormwater Committee	Communities identified and contacted. Coordination meeting. Multi-town programs planned and implemented.	The Town meets with representatives from other South Shore Communities regularly by attendance at Plymouth County Highway, South Shore Recycling Cooperative, Mass Tree Wardens Association, and other such group meetings. In addition the Hull DPW Director is in frequent contact with representatives of the neighboring Towns of Hingham and Cohasset concerning joint projects such as the management of the Straits Pond Culvert and Tide Gate, recycling, and storm water management.	

2.6.	<i>Coordinate with the School Department to promote stormwater awareness projects in the schools and then displaying these projects to the public.</i>	Town Manager, Conservation Commission, Stormwater Committee, School Department, DPW Director, local watershed groups.	School Dept. contacted and meeting scheduled. Possible projects identified. Projects completed and displayed in public buildings.	Hull High School Assistant Principal Scott Sivo was appointed to the Town's Stormwater Management Committee and environmental classes now are part of the High School curriculum. (See Attachments 2 and 5)	
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Revised					
2.7	Develop Storm drain Stenciling Program	DPW, Storm-water Committee, WRWA, SPWA, Conservation Committee	Program developed, volunteers organized, basins identified and stenciled.	(See 1.9)	
Revised					
2.8	Coordinate with WRWA, SPWA, Surf Riders Association, Weir River Estuaries, and others to implement water quality monitoring and review results.	DPW, Storm-water Committee, Conservation Commission, High School, local watershed groups, Board of Health.	Meeting conducted, activities scheduled, conducted. Results reviewed, potential actions identified, implemented.	The Town partnered with the SPWA for Water Quality Monitoring of Straits Pond. This monitoring was put on hold while the tide gate and culvert/bridge was reconstructed. Due to a series of on- going problems with the gate controls and alarm system, this water quality monitoring has not yet resumed. However, water quality	

Revised				testing is carried out by the Board of Health at all beach areas throughout the Summer. A summary of the testing is attached. (Attachment 7)	
2.91	Identify and coordinate with potential volunteers, to include “neighborhood watch” groups, Boy and Girl Scout organizations, school groups/clubs, local and regional environmental advocates.	DPW, Conservation Commission, Stormwater Committee	Groups identified. Contact established, meetings conducted. Activities scheduled, conducted. Number of participating.	See BMP 1.5, 2.1 and 2.8	
Revised	<i>Combined with 2.8</i>	Combined with 2.8	Combined with 2.8		
2.10	Sponsor and support neighborhood, town wide, and beach clean up projects.	DPW, Town Manager, Conservation Commission, Stormwater Committee, CZMA, local watershed groups, Board of Health.	Groups identified. Contact established, meetings conducted. Activities scheduled, conducted. Number of events sponsored/supported, amount of material collected, number of volunteers participating.	Clean up events sponsored or supported in Year 11 include regular beach clean ups in accordance with the Town’s formal “Beach Management Plan”, the annual “Coast Sweep” clean up, and numerous neighborhood and local beach clean ups. In Year 11 the Town also sponsored an annual Beach Grass Planting Day. The Beach Management Plan was submitted with the Year 5 report. (Attachments 8 and 9)	

2.11	Identify stormwater projects important to Hull Citizens (i.e. Straits Pond and Estuary Park projects) and assist in promoting and coordination volunteer efforts on these projects.	DPW, Conservation Commission, town Manager and Board of Selectmen, SPWA, Weir River Estuaries.	Projects identified, inventoried, and promoted. Local watershed groups are assisted. Number of volunteers assisting in projects.	In Year 11 the Town continued work on the Straits Pond/Richards Road Water Quality Improvement Project that was supported by citizens of Hull, Hingham, and Cohasset, and funded in part by a "319" Grant. The project is summarized in the attached brochure.	
				(See Attachment 21)	
Revised					

2a. Additions

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	
3.1	Consider implementation of a GIS system to include the Storm Sewer System	DPW	Mapping completed, consider integration of asset management system	GIS system in place and all components of system located and mapped.	

Revised	<i>Map and assess condition of storm-water of stormwater system components. Verify outfall locations as identified in the Harbor Management Plan. Conduct as outfall survey.</i>	DPW	Number of outfalls verified, survey of outfalls, investigations identified, prioritized, conducted.	Stormwater system assessments conducted in Year 11 in conjunction with Town's "Standard Operating Procedures for Stormwater Systems" and "Seawall Maintenance and Monitoring" inspection program. (Submitted with Year 7 Annual Report)	
3.2	Verify outfall locations as identified in the Harbor Management Plan. Conduct an outfall survey.	DPW	Number of outfalls verified. Survey of outfalls completed. Investigations identified, prioritized, conducted.	Beginning in Year 11, the Town developed and began using a new "Outfall Inspection Report Log" which identifies, evaluates, and records inspection information or drain outfalls throughout Town. A copy of a portion of the Log is attached. (See Attachment 14)	
Revised	<i>Combined with 3.1</i>	Combined with 3.1	Combined with 3.1		
3.3	Adopt by-law to effectively prohibit illicit discharges into the storm system.	DPW, Storm-water Committee, Conservation Commission	Review of model ordinance to ensure compliance with existing laws and regulations. Draft language and legal review. Conduct informational meetings as necessary. Submit to warrant, schedule for vote at Town Meeting. Article voted, accepted.	The Town of Hull currently has both a "Stormwater Bylaw" and "Stormwater Regulations" which are enforced by the Conservation Commission, that prohibit illicit discharges into storm drain systems. (Submitted with Year 7 Annual Report)	
Revised					

3.4	Develop a program to record and investigate suspected illicit discharges.	DPW, Board of Health, Sewer Department, and Conservation Commission.	Program developed. Suspected illicit connections investigated. Source identified and scheduled for removal. Enforcement actions taken or referred to other entity such as police, Health Department, MA DEP or USEPA.	The DPW staff have been trained to look for illicit discharges when cleaning catch basins and other drain structures, and the town continues to respond to and investigate citizen complaints. Most complaint investigations involve a number of Town Departments including DPW, Board of Health, Conservation Commission, and Sewer Department. Illicit discharges are most likely to be detected during Seawall Maintenance and Monitoring Plan inspections.	
Revised				(See BMP 6.3) (See attachment 14)	
3.5	Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.	DPW, Storm-water Committee, WRWA	Ensure that educational materials developed include illicit discharge awareness. Materials developed and distributed.	In Year 11 the DPW Director presented information on stormwater management and the NPDES program to all Department Heads on several occasions, and issued a press release on stormwater management. Stormwater education material is available on the Town's Web page and Cable Channel, including a Stormwater Management information brochure, Household Hazardous Waste Disposal Information, and Non Toxic Cleaning Alternatives.	
				(See Attachments 1 & 3)	

Revised					
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3a. Additions					

4.4	Develop procedures for site plan review which incorporate consideration of potential water quality impacts	Building Officials, Town Planner, DPW, Stormwater Committee, Conservation Commission	Ensure stormwater by-law includes language for site plan review. Consider providing guidance documents or other outreach materials for developers.	The DPW Planning Board and Conservation Commission all review permit applications proper stormwater management. New developments are required to install BMP's as part of the development. Plans are reviewed for stormwater quality. Town works with applicants to develop designs that will help the Town to achieve better stormwater quality, and address soil erosion and sediment control during construction.	
Revised					
4.5	Develop procedures for site inspection and enforcement of control measures	Building Officials, town Planner, DPW, Conservation Commission	Inspection schedule established. Inspections conducted. Deficiencies noted and corrected.	In Year 11 all construction sites in Town were inspected for erosion controls by the Building Inspector and/or the Conservation Administrator. DPW also inspects sites of concern and refers any issues off to Building or Conservations for enforcement.	
Revised					
4.6	Develop procedures for receipt and consideration of information submitted by the public.	Building Officials, Town Planner, DPW, Stormwater Committee, Conservation Commission	Develop a form for the public to provide information. Designate municipal official responsible for receiving, reviewing, and responding to information. Track deficiencies and corrections. Post form on town website.	Complaints to Building Department or Conservation Commission are usually handled by that department. Complaints to DPW or Board of Health are usually referred off to Conservation and/or Building Department. Complaints to DPW are logged and tracked on Work Lists.	
Revised				(Attachment 11)	

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 11 (Reliance on non-municipal partners indicated, if any)	
5.1	Identify structural and non-structural best management practices (BMP's) appropriate for the community	Town Planner, DPW, Conservation Commission, Stormwater Committee	Incorporate by reference state specific standards (i.e acceptable practices under Wetlands Protection Act). Identify standard practices which are not acceptable in the community. Consider developing guidance documents or other outreach materials for developers outlining BMP selection and guidance on proper operation and maintenance.	In Year 11 Town Departments continued to evaluate construction projects to identify and if possible require both structural and non-structural BMP's. (Also see BMP 2.11)	
Revised					
5.2	Adopt by-law to require post-construction runoff controls.	Town Planner, DPW, Conservation Commission, Stormwater Committee	Review of model ordinance to ensure compliance with existing laws and regulations. Draft language and legal review. Conduct informational meetings as necessary. Submit to warrant, schedule for vote at Town Meeting. Article voted, accepted.	The Town currently has a Stormwater By-Law and Regulations entitled "Standards and Specifications for Stormwater Management Systems" that require post construction inspection and maintenance of all storm water BMP's. The Town continues to enforce the By-Law and Regulations.	

Revised				(See 3.3 & 4.1)	
5.3	Ensure all new development and redevelopment projects that disturb one acre or more require long term operation and maintenance of post-construction runoff controls.	Town Planner, DPW, Conservation Commission, Stormwater Committee	Ensure proposed by-law or regulations, language and enforceable mechanism for long term operation and maintenance of post-construction runoff controls.	In Year 11 there were no new development or redevelopment projects that disturbed one acre or more of land.	
Revised				(See Attachment 10)	
5.4	Acquire land for conservation and preservation as open space	Town Manager, Conservation Commission.	Acres preserved and to remain undeveloped	The Town continues to pursue acquisition of private property for preservation and open space, and also works with non-municipal partners such as the Hull Land Conservation Trust in support of continued acquisition. (Attachment 12)	

5a. Additions

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 11 (Reliance on non-municipal partners indicated, if any)
6.1	Review and expand upon the current public street and parking lot sweeping program. Consider tracking streets and curb miles swept and the quantity of material collected.	DPW, Storm-water Committee	Continue existing program and maintain records on areas swept including, a breakdown of beach sand and road sand.	In Year 11 the Town swept all public roadways and municipal parking areas at least once, and environmentally sensitive areas, beach locations, low lying areas and the business districts more than once. Logs were maintained on dates and amounts including a breakdown of sand types.
Revised				(Attachment 13) (Also see Attachment 3)
6.2	Consider including pollution prevention training for equipment operators	DPW, Storm-water Committee	Consider including pollution prevention training for equipment operators. Evaluate the existing level of awareness of equipment operators. Consider incorporating Health and Safety training with stormwater awareness training.	In house training is done to educate DPW staff about proper stormwater management, and spill containment supplies are in DPW vehicles. The Fire Department is trained and available to respond to any hazardous material spills, and has an “emergency response trailer” that is equipped with supplies and materials needed for this.
Revised	<i>Include pollution prevention, environmental awareness, and spill response training for equipment operators</i>	<i>DPW, Storm - water Committee, Fire Department, and Police Department</i>	<i>Provide pollution prevention, environmental awareness and spill response training for equipment operators and other town staff as appropriate. Evaluate the existing level of awareness of equipment operators.</i>	

6.3	Review and expand upon the current storm system inspection and maintenance program	DPW, Conservation Commission, Stormwater Committee	Continue existing program. Identify the system and all public structures tributary to the system. Conduct a catch basin sediment accumulation pilot program. Establish a routine inspection and maintenance program. Maintain records of inspections conducted, number of basins cleaned, approximate volume of material collected. Note areas that accumulate more sediment and consider more frequent inspection, cleaning or further investigation.	In Year 11 the DPW inspected and cleaned almost all of the 3,000 catch basins and manholes at least once, and those in problem areas more than once. The Town maintains a record of storm drain cleaning and jetting of lines and records the amount of material removed. Inspections and maintenance of the Town's stormwater infrastructure were conducted in accordance with the Town's "Standard Operating Procedures" program. In Year 9 the Town developed a new Outfall Inspection Report Log and began an in-depth inspection and evaluation of all drain outfalls. A copy of a portion of the log is attached, as is a copy of CB/MH Cleaning and Line Jetting Log.	
Revised				(Attachments 14)	
6.4	Identify, as necessary, structural modifications to the storm sewer system in conjunction with future roadway improvements	DPW, Conservation Commission and Town Manager	Evaluate system improvement needs in conjunction with planned roadway improvements.	The DPW Director, Conservation Administrator, Town Manager, and Town Planner meet on a regular basis to discuss stormwater system improvements that could be incorporated into future roadway	

Revised				reconstruction. In Year 10 GCG Associates prepared a Stormwater Report for Bay Ave. East that identified stormwater management BMP's that will be included in the Bay Ave. East Revitalization project. (Attachment 15)	
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6.5	Provide spill response and storm-water/environmental awareness training to mechanics and equipment operators	DPW, Fire Department, Police Department	Develop training program. Identify staff for training. Conduct initial and annual refresher training. Maintain training, roster for each session, and include documentation in personnel files.	(See 6.2 above) In addition, the Coast Guard is available for any spills in Marine/Coastal areas.	
Revised	Combined with 6.2	Combined with 6.2	Combined with 6.2		

6.6	Post spill prevention/emergency action plans prominently in areas where hazardous materials are used and stored.	DPW, Fire Department, Police Department	Develop posters outlining spill prevention/emergency response plans. Post prominently in the garage.	Task Completed; Report as Needed. (Also see Attachments 6.2, 6.4, and 6.5)	
Revised					
6.7	Conduct annual inspection of municipal maintenance facilities.	DPW, Fire Department, Police Department	Develop Checklist. Conduce inspections. Record and correct deficiencies.	The DPW continues to do self inspections and remains in contact with other Town Departments concerning self inspections and good housekeeping practices.	
Revised					

6.8	Develop a program for curb-side pick-up and composting of yard wastes.	Town Manager, DPW, Hull Municipal Landfill	Yard waste collected from citizens and composted at the Hull Landfill.	The Town composts municipally generated yard waste including wood chips generated from brush and trees collected from residents. Chip Days, which allow residents the opportunity to drop off trees and brush were held on 5/11/13 and 10/19/13.	
Revised	<i>Develop a program for composting of yard wastes</i>	DPW Director, Town Manager, DPW, Hull Municipal Landfill	Yard waste composted at the Hull Landfill	(Attachment 16)	
6.9	Investigate floor drain connections at maintenance facilities and post “no dumping” signs in the vicinity of these drains	DPW, Police Department, Fire Department	Number of floor drains connections investigated. Floor drains closed or connected to the sanitary sewers with adequate BMP’s. Signs posted.	All floor drains have been removed, sealed off, or connected to the Town’s sanitary sewer system.	
Revised					
6.10	Establish a program to discourage and investigate illegal dumping. Enforce penalties.	DPW, Police Department, Stormwater Committee, Neighborhood Groups	Educate citizens on the dangers of illegal dumping. Monitor chronic dumping areas. Enforce penalties and fees.	The Board of Health actively issues citations/orders to those who are caught illegally dumping. The Police Department is also available to enforce penalties against illegal dumpers. The town has a litter and dumpster by-law that provides legal enforcement abilities. Beginning in Year 8 we have been working with the State and the Trial Court Community Service Program to get litter and debris picked up from a number of locations in Town.	
Revised				(Attachment 17)	

6.11	Publicize and support Household Hazardous Waste (HHW) Collection events	DPW, Town Recycling Center, Sewer Commission, Wastewater Treatment Plant.	Continue to coordinate with the Town Recycling Center and the Sewer Commission to publicize and support HHW Collection events. Record the number of attendees, volunteers. Record the types and amounts of material collected.	As a result of budget cuts, the Town of Hull did not have a household hazardous waste collection in Year 11. However, we continue to coordinate with other groups to encourage recycling, and we maintain a Recycling Web site to provide residents with information on recycling and household hazardous waste disposal.	
Revised				(Attachments 18)	
Revised					
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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2006 through March 31, 2007)

Programmatic

		Response
Stormwater management position created/staffed	(y/n)	
Annual program budget/expenditures **	(Preferred Units)	
Total program expenditures since beginning of permit coverage	(\$)	
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		

Education, Involvement, and Training

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

Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft Review	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

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

Construction

		Response
Number of construction starts (>1-acre) **	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(Preferred Units) (%)	
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 (for proper BMP installation & operation) completed **	(# or %)	
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	
Low-impact development (LID) practices permitted and encouraged	(y/n)	

Operations and Maintenance

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)	
Qty of structures cleaned **	(#)	
Qty. of storm drain cleaned **	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	
• Disposal cost**	(\$)	
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	
• Vacuum truck(s) owned/leased	(#)	
• Vacuum trucks specified in contracts	(y/n)	
• % Structures cleaned with clam shells **	(%)	
• % Structures cleaned with vector **	(%)	

Response

Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr) (Preferred Units)	
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	
• Disposal cost**	(\$)	
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	
• Vacuum street sweepers owned/leased	(#)	
• Vacuum street sweepers specified in contracts	(y/n)	
• % Roads swept with rotary brush sweepers **	%	
• % Roads swept with vacuum sweepers **	%	

Reduction (since beginning of permit coverage) in application on public land of:
 (“N/A” = never used; “100%” = elimination)

▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	
Integrated Pest Management (IPM) Practices Implemented	(y/n)	

		Response
Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	(Preferred Units) % NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized **	(y/n or %)	
Manual control spreaders used **	(y/n or %)	
Zero-velocity spreaders used **	(y/n or %)	
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	
Storage shed(s) in design or under construction	(y/n or #)	
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	

• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	
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