Municipality/Organization: Town of Webster, MA

EPA NPDES Permit Number: MAR041170

MassDEP Transmittal Number: W-21004707

Annual Report Number
& Reporting Period: No. 12: April 1, 2014 – March 31, 2015

NPDES EPA Small MS4 General Permit Annual Report

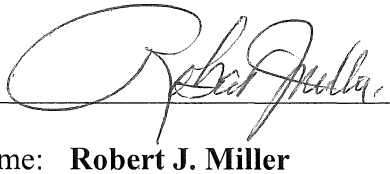
Part I. General Information

Contact Person: **Scott Charpentier, P.E.** Title: **Town Engineer/Planner**

Telephone #: **508-949-3800 x1028** Email: **scharpentier@webster-ma.gov**

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: **Robert J. Miller**

Title: **Chairman, Board of Selectman**

Date: April 27, 2015

Part II. Self-Assessment

In Permit Year 12 (April 1, 2014 through March 31, 2015), the Town of Webster continued to implement its Stormwater Management Program. As part of developing the annual report, the Town evaluated compliance of the stormwater management program with the conditions of the NPDES General Permit for Stormwater Discharges from Small MS4s, effective May 1, 2003, as required by Part II.D.1 of the permit. This year's evaluation shows the Town has continued to implement the Best Management Practices (BMPs) identified in the Notice of Intent (NOI) and met many of the measurable goals for these BMPs, and has continued to meet numerous General Permit requirements.

As part of the annual report development, the Town also evaluated the appropriateness of its BMPs in efforts towards achieving the defined measureable goals. In previous years, some BMPs and measurable goals were improved. This year, BMPs and measurable goals continue to be appropriate.

During Permit Year 12, the Town continued work on the comprehensive stormwater management program focusing on completing the stormwater system mapping, identification and inspection of outfalls, and preparing a comprehensive written Town-wide Municipal Good Housekeeping and Pollution Prevention Program for municipal facilities and activities and a Stormwater Pollution Prevention Plan (SWPPP) for the Highway Facility. The Webster Town Engineer also attended two Central Massachusetts Regional Stormwater Coalition (CMRSWC) meetings and the NEIWPCC Stormwater Utility workshop. The Town continued to support of the efforts of volunteer (Webster Lake Association, French River Connection) and governmental organizations (Central Massachusetts Mosquito Control Program).

In addition, the Town began evaluating the preliminary feasibility of a creating and adopting a stormwater utility as a potential mechanism to fund the current and future stormwater program. A preliminary feasibility report is currently under development and includes information on benefits and drawbacks of a utility, drivers for a utility, potential fee structures, an estimate of Webster's current and future program costs and needs, and provides next steps for considerations.

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 12	Planned Activities
1.a.	Educational Flyers and Pamphlets Town Website	DPW/Charpentier	# of materials created and distributed # of hits on town website	Webster maintains stormwater information and links on the Town website, including fact sheets entitled "Keep the Water Blue and the Lawn Green," "Why Webster Needs a Stormwater Bylaw," and a FAQ sheet for the Stormwater Bylaw public hearing. The Town continues working in collaboration with the two volunteer watershed associations representing the major waterways/bodies in Webster – the Webster Lake Association and the French River Connection. Both of their websites promote smart landscaping, avoidance of phosphate application, and other storm water Best Management Practices (BMPs). In Permit Year 11, a Public Education Strategy to meet the proposed new permit was developed. The Strategy includes educational materials, audiences, BMPs options and recommended methods of delivery and evaluation. Materials generally provide information on the impact of stormwater discharges to waterbodies and illicit discharges/illegal dumping.	Continue to maintain stormwater website and support education by watershed associations. Keep stormwater brochures available on the Town website. Once the new MS4 permit becomes effective, implement education program that meets new permit.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities
1.b.	Newspapers – Press Releases	DPW/Charpentier	# of stormwater related articles published	The Earth Day Roadside cleanup was held on May 3, 2014. The event was advertised in the Webster Times and on the Town of Webster website.	Continue to advertise and hold the annual Earth Day cleanup. Earth Day cleanup for 2015 is planned for May 2, 2015 and is advertised on the
1.c.	Local Cable Access Channel	DPW/Charpentier	# of public service announcements made on television	PSAs related to street sweeping and the annual Earth Day Cleanup were made on the local cable access channel during Year 12. In addition, during previous years, other stormwater-related information such as the Pennsylvania State University documentary "Liquid Assets" and presentations on the local stormwater bylaws made to Selectmen were aired.	Continue PSAs on Earth Day Cleanup and Street Sweeping. As budget and staff time allows, "After the Storm" video will be aired on local cable television in Year 13.
1.d.	Hazardous Waste Collection Day	DPW/Charpentier	# of people participating/list of materials collected	A Hazardous Waste Collection Day was not held due to budget cuts.	Until funding is available, a Hazardous Waste Collection Day will not occur.
1.e	Educational Training Materials	DPW/Charpentier	# of events where training materials are used	In previous permit years, the CMRSWC purchased an Enviroscape table focused on non-point source pollution education (http://www.enviroscapes.com/nonpoint-source.html). This tool is a hands-on, visual trainer to demonstrate the importance of good housekeeping and low-impact development for pollution prevention, with the objective of maintaining water quality in our communities. The CMRSWC purchased 100 water quality monitoring kits from the World Water Monitoring Challenge program (www.worldwatermonitoringday.org), which "builds public awareness and involvement in protecting water resources around the world by engaging citizens to conduct basic monitoring of their local water bodies."	The Town will continue to look for opportunities to use the CMRSWC materials, if they are available.
		CMRSWC			

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities
2.a	Stormwater Management Committee	DPW/Charpentier	# of meetings held	The Stormwater Management Committee did not formally meet in Year 12. The Stormwater Management Program is now directed by the Town's Engineer/Planner. The Engineer/Planner coordinates with the Town Administrator, DPW, and Water/Sewer staff.	The stormwater management committee will reconvene when the new MS4 permit is issued to provide input into development of the SWMP.
2.b.	Storm Drain Stenciling	DPW/Charpentier	# of drains stenciled	Stenciling was completed in previous permit years, however, no additional storm drains were stenciled in Year 12. However, the Town did purchase stormwater outfall markers in Permit Year 11 (see BMP #3.b.). Approximately 20 of these markers were placed during this permit year by WPI students (see also BMP #3b)	Measurable goals for 2003 General Permit have been met.
2.c.	Educational Outreach Materials		# of presentations	No public presentations were made in Year 12. See BMP 3c for public meetings regarding stormwater funding.	Measurable goals for 2003 General Permit were met in permit year 10. The Town will consider additional public presentations as necessary.
2.d.	Stream Cleanup and Monitoring	DPW/Charpentier	# of participants and locations of streams	Webster Lake Association volunteers conducted water quality sampling in Webster Lake. The Board of Health also collected water quality samples at the Webster Lake beach weekly from May through September. French River Connection volunteers sampled 7 events at 15 locations within the French River.	Continue collaboration and encouragement of the Lake Webster Association and the French River Connection related to monitoring and cleanup efforts.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities
2.e.	Roadside Cleanup Day	DPW/Charpentier	Hold volunteer-driven clean-up day once per year	The Town of Webster conducted an Earth Day roadside cleanup during Permit Year 12 on May 3, 2014 from 8:00 AM to 2:00 PM sponsored by the Webster-Dudley Business Alliance. 162 volunteers removed over 2 tons of waste including 1.92 tons of trash and 0.54 tons of recycling from roadsides and rivers. An additional 0.6 tons of electronic recyclables were collected.	Continue to support of Earth Day cleanup efforts. The next Earth Day cleanup is planned for May 2, 2015.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities
3.a.	Mapping of Stormwater Outfalls	DPW/Charpentier	# outfalls	The Town has developed a map showing the locations of 300 stormwater outfalls and receiving waterbodies are required by the 2003 MS4 General Permit. In addition, drainage system mapping is substantially completed (including catch basins, drainage manholes, and pipes) with field verification of locations and connectivity mapping ongoing.	Measureable goal for 2003 General Permit met. Mapping is an ongoing effort and the Town is continuing to work towards a complete system-wide map.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities
3.b.	Identification of Outfalls	DPW/Charpentier	# of outfalls located	Approximately 300 stormwater outfalls have been identified based on record plans which were digitized in GIS, and 185 have been field verified. The outfall inventory is complete for these outfalls. Dry weather flow was observed at 78 samples which will be field screened this summer. Outfall markers with unique identifying labels have been purchased and approximately 20 markers were placed in Year 12. The CMRSWC purchased two Leica surveying devices that will be helpful in completing field verification of outfall locations, and may be utilized by the Town as needed. WPI student volunteers assisted in outfall inspections and follow up dry weather monitoring in Fall 2014 for approximately 20 outfalls. Students noted condition of the outfall and for the six outfalls where dry weather flow was present, screened for ammonia, surfactants, chloride and pH using field kits and measured in situ specific conductance, turbidity, and temp using a meter. Results of inspections were recorded field sheets. Some additional outfall markers were installed.	Continue field verification and inventory of remaining outfalls and system connectivity as budget allows. Continue to install outfall markers during outfall inspections.
3.c.	Capital Planning/Budget	DPW/Charpentier	Amount of money needed for future projects	The Town continued to assess the feasibility of a Stormwater Utility to assist with stormwater financing. A preliminary draft Feasibility Report is being vetted internally.	Brief selectmen at public meeting once the Stormwater Feasibility Study is complete.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities
3.d.	Assess Current By-Laws/Amend to Meet Phase II Regulations	DPW/Charpentier	By-Law Language to prohibit illicit discharges	The Town adopted Chapter 570 Stormwater Management Bylaw on October 15, 2012. This bylaw includes sedimentation and erosion control, post-construction and illicit discharge components. Specifically, this bylaw prohibits non-stormwater discharges to the MS4 and includes appropriate enforcement authority.	Utilize the provisions of the bylaw to remove illicit discharges from the MS4 or address illegal dumping, as needed.
3.e.	BMP Installation	DPW/Charpentier	# of BMP's installed	There were no Town-owned structural BMPs installed in Permit Year 12.	A strategic approach to identifying priority areas for BMP retrofits will be evaluated during development of the NOI/SWMP for the reissued General Permit once effective.
3.f.	IDDE Program Development	DPW/Charpentier	# IDDE locations identified	A written IDDE program was developed during Permit Year 12. The program includes action plans for non-stormwater discharges, sanitary sewer overflows, stormwater system mapping, verifying regulations applicability, assessment and priority ranking of catchments, and identification, removal, and prevention of illicit discharges. The IDDE program also contains preliminary drainage system and catchment maps.	Measurable goal for 2003 General Permit has been met. Train municipal employees on proper detection and elimination procedures. Continue to implement program as budget allows.
3.g.	Inspecting Stormwater System Components	DPW/Charpentier	# of inspections completed	A comprehensive written Town-wide Municipal Good Housekeeping and Pollution Prevention Program was developed in Permit Year 12. CMRSWC Standard Operating Procedures (SOPs) and Town SOPs were created and can be utilized to address catch basin and constructed BMP inspection, oil/water separator maintenance, and private drainage connections.	Continue inspection of stormwater system as needed. DPW staff plan to continue outfall monitoring for signs of potential illicit discharges.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities
3.h.	Develop Stormwater Management Program Web based GIS system	DPW/ Charpentier	Implement GIS system for DPW and other town staff	The web-based GIS system deployed in Permit Year 11 assists with implementing and managing the stormwater program, including outfall mapping, monitoring, IDDE program, permit tracking, and site plan review.	Continue to train staff on GIS system use to assist with implementing and managing the stormwater program.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) Permit Year 12	Planned Activities
4.a.	Site Plan Review	Planning Board, Conservation Commission	# of sites reviewed prior to construction	Prior to approval and construction of projects under Site Plan Review, the Planning Board, Conservation Commission, Zoning Board, DPW Director, and Water & Sewer superintendents, review all proposals. The Town received 14 plans for Site Plan Review between April 2014 and March 2015. The Conservation Commission also reviewed 16 Notices of Intent for compliance with the MA Stormwater Management standards under the MA Wetlands Protection Act.	Continue implementing Site Plan Review and Wetland Protection Act. Continue to work with developers to control erosion, sedimentation, and pollutant runoff during construction activities.
4.b.	Building Permit Requirement	Building Dept.	# of simple stormwater permits issued # of building permits issued	In the draft *Rules and Regulations for the Management of Stormwater*, the Building Inspector is the authorized enforcement agent of the Planning Board to review and approve a Simplified Stormwater Permit (SSP). Since these regulations have not been adopted, the Building Inspector has continued to enforce projects under his purview (i.e., Zoning).	Because of anticipated new General Permit requirements for the regulation of development and redevelopment projects, the Town will revise and adopt these regulations after the Permit is finalized.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) Permit Year 12	Planned Activities
4. c.	Inspection	Planning Board/ Conservation Commission DPW	# of sites inspected	Construction phase site inspections are performed routinely for projects before Planning and Conservation. For example, site visits are performed at least weekly during the construction of subdivisions, and more often during crucial points of construction. Compliance with approved specifications during every step of the construction project is identified by using sign-off sheets.	Modify inspection/reporting as required under the reissued General Permit once effective. Continue documenting the number of site inspections during the year, including violations and remedial activities (see also BMP 4.d).
4.d.	Assess Planning Board Regulations/Amend to meeting Phase II Regulations	Planning Board	Regulations to control runoff from construction projects Permit tracking system	The Town adopted Chapter 570 Stormwater Management Bylaw on October 15, 2012. This bylaw requires erosion and sediment controls at construction sites that disturb 10,000 sq. ft. or more, development that will increase lot imperviousness over 25%, and any land alteration in "hotspots" (i.e., land use with higher potential pollutant loadings per MA Stormwater Standard #5). Draft rules and regulations for this Bylaw have been prepared and are under review.	Because of anticipated new General Permit requirements for the regulation of development and redevelopment projects, the Town will revise and adopt these regulations after the Permit is finalized. Continue evaluating Town permitting process to facilitate permit compliance tracking across multiple departments and jurisdictions.
4.e.	Erosion and Sedimentation Control Standard Operating Procedure (SOP)	Building Inspector/ Planning Board	Erosion and Sedimentation Control SOP	The CMRSWC SOP for Erosion and Sedimentation Control is included in Town-wide Municipal Good Housekeeping and Pollution Prevention Program. The SOP describes practices to minimize discharges from land-disturbing activities and addresses design, planning, construction, and inspection practices.	Measurable goal for the 2003 General Permit has been met. Erosion and sedimentation controls will be implemented for municipal and private projects under this SOP (as a minimum) or local bylaws when applicable.

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 12	Planned Activities
5.a.	Eliminating Curbs and Gutters	Highway/ Pizzetti	# of curb cuts made in existing developments	The Town issued 8 curb cuts between April 2014 and March 2015.	Continue to monitor and increase curb cuts where possible.
5.b.	Urban Forestry	DPW/Charpentier	# of trees planted as a result of urban forestry	No trees were planted by the Town during the reporting period due to budget constraints.	As needed, support tree planting programs in Town.
5.c.	Zoning	Office of Community Development	The amount of open space protected by zoning codes	There were no changes to the zoning code this Permit Year.	As part of Master Planning processes and Open Space & Recreation efforts, continue to look for opportunities to increase and protect open space.
5.d.	Assess Town Regulations/Amend to meet Phase II Regulations	Planning Board	Regulations to control post-construction runoff Permit tracking system	The Town adopted Chapter 570 Stormwater Management Bylaw on October 15, 2012. This bylaw regulates stormwater runoff from new development and redevelopment projects that disturb 10,000 sq. ft. or more, development that will increase lot imperviousness over 25%, and any land alteration in "hotspots" (i.e., land use with higher potential pollutant loadings per MA Stormwater Standard #5). Draft rules and regulations for this Bylaw have been prepared and are under review.	Because of anticipated new General Permit requirements for the regulation of development and redevelopment projects, the Town will revise and adopt these regulations after the Permit is finalized. Continue evaluating Town permitting process to facilitate permit compliance tracking across multiple departments and jurisdictions.
5.e.	Stormwater Best Management Practices (BMP) Tool Box	Building Inspector	Stormwater BMP technical data, design factors, and construction limitations for single family and small commercial projects	The CMRSWC developed a Toolbox that consists of Standard Operating Procedures that can be used to inspect constructed BMPs. The Town has evaluated these documents and has included them in the Town-wide Municipal Good Housekeeping and Pollution Prevention Program for use as needed.	Measurable goal for the 2003 General Permit has been met. BMPs will be addressed as needed as part of the Town-wide Municipal Good Housekeeping and Pollution Prevention Program

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 12	Planned Activities
6.a.	Parking Lot and Street Cleaning	Highway/ Pizzetti	# of scheduled road cleanings	In Permit Year 12, all 78 miles of streets were swept. Main Street and trouble spots received additional sweeping as needed.	Continue street sweeping program.
6.b.	Road Salt/Sand/Mix Application and Storage	Highway/ Pizzetti	Cubic yards of salt/sand/mix applied to roadways & location of storage	In Permit Year 12, the Town used continued to use 1,650 tons of ClearLane (no sand).	Continue the use of ClearLane Enhanced Deicer.
6.c.	Drain System Cleaning	Highway/ Pizzetti	# of storm drains cleaned regularly	Approximately 250 catch basins were cleaned and documented within the reporting period.	Continue the cleaning program and improve efficiency annually.
6.d.	Outfall Cleanup and Monitoring	DPW/Charpentier	# of outfalls examined and cleaned	A few storm drain outfalls were cleaned both in the spring and fall by the Highway Department. Brush was cut back, debris removed, and structural integrity was noted. Central Mass Mosquito Control also continued to clean roadside culverts and stream.	Continue outfall mapping and monitoring for signs of potential illicit discharges by DPW Staff. Continue participation in the Central Mass Mosquito Control Project.
6.e.	DPW Employee Education	DPW/Charpentier	# Employees Trained; # Facilities	Monthly training sessions are held for 12 DPW employees.	Continue to hold annual training to cover illicit discharge detection procedures and good housekeeping practices and procedures.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) Permit Year 12	Planned Activities
6.f.	Municipal Operation and Maintenance Procedures	DPW/ Charpentier	Guidance for Municipal Activities	A comprehensive written Town-wide Municipal Good Housekeeping and Pollution Prevention Program was developed in Permit Year 12. This document was prepared in accordance with the 2014 draft new MS4 permit requirements and includes a facility inventory, descriptions of activities at each facility, potential pollutants, and SOPs to provide guidance on activities such as oil/water separator maintenance, use and storage of pesticides and fertilizers, solid waste management, chemical handling, spill response and cleanup, and municipal vehicle washing, storage, and maintenance/repair.	Measurable goals for the 2003 General Permit have been met. Implement procedures to address operation and maintenance of municipal activities at municipal facilities and town-owned vehicles and equipment.
6.g.	Sump Pump Discharge Policy	DPW/Charpentier	Sump Pump Discharge Policy	The Town has evaluated the CMRSWC Sump Pump Discharge Policy, and determined it should not be incorporated into local rules and regulations or other formal documents. Discharges from sump pumps will be addressed as part of the Town's IDDE program.	No further efforts planned on the sump pump discharge policy at this time.
6.h.	Salt/Sand Benchmarking	DPW/Charpentier	Salt/Sand Benchmarking tool	The Town has evaluated the CMRSWC Salt/Sand Benchmarking tool for potential incorporation into rules and regulations, and determined this tool should not be incorporated into rules and regulations, but should be used as needed once the new MS4 general permit is issued.	No further activities planned under the 2003 General Permit.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) Permit Year 12	Planned Activities
6.i	Municipal SWPPP	DPW/Charpentier	Develop Stormwater Pollution Prevention Plans (SWPPP) for Municipal Facilities	A SWPPP for the Town's Highway Facility was developed in Permit Year 12. The SWPPP was prepared to meet proposed requirements in the draft 2014 MA MS4 General Permit, and includes descriptions of the pollution prevention team, the site, potential pollutant sources; stormwater control measures, schedules, and procedures; and reporting and recordkeeping requirements. A separate draft SWPPP was prepared for the Wastewater Treatment Facility which is covered by EPA's MSGP.	Measurable goals for the 2003 General Permit have been met. Implement the SWPPP and train municipal staff on municipal good housekeeping and stormwater pollution prevention.

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

None required. There are no final TMDLs in Webster.

According to the 2014 draft Massachusetts Small MS4 General Permit, at least a portion of Webster is located within the Long Island Sound watershed, which has an approved TMDL for nitrogen. The Town currently reduces nitrogen impacts by street sweeping. Nitrogen-reducing SOPs that were adopted through the Municipal Good Housekeeping Program include pet waste, landscaping, and pesticides and fertilizers management. The Town will evaluate additional BMPs when the new General Permit becomes effective.

Part IV. Summary of Information Collected and Analyzed

Town's Board of Health conducted fecal coliform sampling weekly during summer months at beaches along Webster Lake. Webster Lake Association and French River Connection sampling activities and results are detailed in the Public Participation MCM, and were shared with the Town and MassDEP.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

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

Education, Involvement, and Training

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

Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	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	N/A			
▪ Erosion & Sediment Control			X	
▪ Post-Development Stormwater Management			X	

Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	95%
Estimated or actual number of outfalls	(#)	300
System-Wide mapping complete	(%)	95%
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	100%
Outfalls inspected/screened	(# or %)	185
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	185
Illicit discharges identified	(#)	
Illicit discharges identified (Since beginning of permit coverage)	(#)	
Illicit connections removed	(#) (est. gpd)	
Illicit connections removed (Since beginning of permit coverage)	(#) (est. gpd)	
% of population on sewer	(%)	
% of population on septic systems	(%)	

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre)	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	
Site inspections completed	(# or %)	30 sites
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)	yes
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 sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)	(location)	
Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)	($)	
• Hourly or per basin contract rate	($/hr or $ per basin)	
• Disposal cost (included in contract rate)	($)	

Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	
• Vacuum truck(s) owned/leased	(#)	
• Vacuum trucks specified in contracts	(#)	
• % Structures cleaned with clam shells	(%)	
• % Structures cleaned with vactor	(%)	
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)	
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)	($)	
• Hourly or lane mile contract rate	($/hr or $ per 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 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)	
Anti-/De-Icing products and ratios	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	96% NaCl 4% $MgCl_2$
Pre-wetting techniques utilized	(y/n)	Y

Manual control spreaders used	(y/n)	
Automatic or Zero-velocity spreaders used	(y/n)	
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)	(%)	100%
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

Stormwater 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	