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design/build, & equipment

Weston&Sampson®
Middleborough, Massachusetts

MAY 1 2009

April 29, 2009

Ann Herrick - CIP
U.S. Environmental Protection Agency
1 Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

**Re: Annual Report - NPDES Permit No. MAR041134
Permit Year 6**

Dear Sir/Madam:

On behalf of the Town of Middleborough, Massachusetts, please find enclosed the Annual Report for permit year six in accordance with the terms of the town's NPDES Phase II Municipal Separate Storm Sewer Systems (MS4) General Permit. As the report states, the town is in compliance with the permit. If you have any questions or require additional information, please do not hesitate to contact me at (978) 532-1900.

Very truly yours,

WESTON & SAMPSON



Patricia C. Passariello, P.E. (NH)
Project Manager

Enclosure

cc: Fred Civian, MADEP-Boston
Charles Cristello, Town Manager
Donald Boucher, Highway Superintendent

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Municipality/Organization: Town of Middleborough, Massachusetts
EPA NPDES Permit Number: MAR041134
MADEP Transmittal Number: W-X227797
Annual Report Number & Reporting Period: No. 6: March 2008-March 2009

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Charles Christello **Title:** Town Manager
Telephone #: (508) 947-0928 **Email:** ccristello@middleborough.com

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: Patrick E. Rogers

Printed Name: Patrick E. Rogers

Title: Chairman, Board of Selectmen

Date: 04.22.09

Part II. Self-Assessment

The Town of Middleborough, Massachusetts has completed the required self-assessment and has determined that, based on the information, our municipality is in compliance with the conditions of the permit. The exception to this statement differed from those stated in the 2003 Notice of Intent (NOI), as detailed in Part III.

Part III. Summary of Minimum Control Measures

The town made significant progress on implementation of the Six Minimum Control Measures during the beginning of year six. All Best Management Practices (BMPs) listed in our July 2003 Notice of Intent were implemented with exceptions. Please see Table III, Summary of Minimum Control Measures (Attachment A) for a listing of the BMPs and a detailed analysis of the exceptions:

- 2a – Expand the Citizen’s Advisory Committee: As stated last year, although a Citizens Advisory Committee the town was unable to maintain involvement and activity in this committee. The town plans to develop and implement Participation efforts that will, hopefully, be more successful. This effort will be coordinated with re-issued BMPs to ensure that it meets any new requirements.
- 2d – Implement a Catch Basins Stenciling Program: The town has obtained catch basin stencils, but the stenciling has yet been completed.
- 3a – Map Outfalls and Receiving Waters: Middleborough has been working on a town-wide inventory of outfalls that includes catch basins, drain manholes, and outfalls. This includes physically locating outfalls for each street, collecting Global Positioning System (GPS) data on the outfalls, and adding GPS data to the existing drain inventory Geographic Information System (GIS). However, due to the total land area in Middleborough, this task has not been fully anticipated. Inventory of catch basins and outfalls is complete on approximately 297 out of 380 streets. Approximately 250 streets (65%) are located within the Urbanized Area, and inventory is completed on approximately 250 streets (65%). The town will continue to work towards inventory of all catch basins and outfalls in the Urbanized Area.
- 6e – Perform Follow-ups to Ensure Required Practices are Met: The town completed stormwater audits of municipally owned buildings and provided stormwater training to municipal employees. The town has not completed follow-up audits.

Part IV. Summary of Information Collected and Analyzed

Since the last annual report, the town has continued on-going efforts begun under the 2003 permit. In anticipation of permit issuance in 2008-2009, the town did not undertake any *new* data collection activities.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	No. Responsibilities split under Highway, Planning, & Conservation.
Annual program budget/expenditures	(\$)	SW not separate budget.

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	?
Stormwater management committee established	(y/n)	See discussion in Part III.
Stream teams established or supported	(# or y/n)	Not by town. Taunton River Watershed Assoc. has.
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	NA.
Household Hazardous Waste Collection Days	(#)	Wastes collected at town LF during all normal operating hours.
▪ days sponsored		?
▪ community participation	(%)	
▪ material collected	(tons or gal)	Town transferred LF to contract O&M.
School curricula implemented	(y/n)	None specifically under this program.

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				X
▪ Erosion & Sediment Control				X
▪ Post-Development Stormwater Management				X

Mapping and Illicit Discharges

Outfall mapping complete	(%)	Please see discussion under BMP 3a in Section III.
Estimated or actual number of outfalls mapped	(#)	75
System-Wide mapping complete	(%)	Please see discussion under BMP 3a in Section III.
Mapping method(s)		
▪ Paper/Mylar	(%)	Record drawings exist for drainage projects and new/re-development. Aprx. 50% of drainage piping network schematically mapped on GIS. Please see discussion under BMP 3a in Section III for status of outfall and catch basin GIS.
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	Initial wet-weather sampling attempted on 14 outfalls; samples taken @ 10 outfalls.
Illicit discharges identified	(#)	None.
Illicit connections removed	(#) (est. gpd)	N/A.
% of population on sewer	(%)	33%
% of population on septic systems	(%)	67%

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)	2-3
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	2-3
Total number of structures cleaned	(#)	896
Storm drain cleaned	(LF or mi.)	NA
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	See Attach. B
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		LF
Cost of screenings disposal	(\$)	\$75/ton
Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	2/yr
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	2/wk summer
Qty. of sand/debris collected by sweeping	(lbs. or tons)	See Attach. B
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	LF
Cost of sweepings disposal	(\$)	NA-town LF
Vacuum street sweepers purchased/leased	(#)	None
Vacuum street sweepers specified in contracts	(y/n)	NA
Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	NA
▪ Herbicides	(lbs. or %)	NA
▪ Pesticides	(lbs. or %)	NA
Anti-/De-icing products and ratios (% NaCl, % CaCl ₂ , % MgCl ₂ , % CMA, % Kac, % KCl, % Sand)	(%)	100%NaCl
Pre-wetting techniques utilized	(y/n)	No
Manual control spreaders used	(y/n)	Yes
Automatic or Zero-velocity spreaders used	(y/n)	No
Estimated net reduction in typical year salt application	(lbs. or %)	NA.
Salt pile(s) covered in storage shed(s)	(y/n)	Yes
Storage shed(s) in design or under construction	(y/n)	NA.