Municipality/Organization: Town of Medway, MA

EPA NPDES Permit Number: MA041132

MaDEP Transmittal Number: W-

Annual Report Number
& Reporting Period: No. 3: March 05-March 06

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NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: David D'Amico Title: Director, Dept. of Public Services

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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: Suzanne Kennedy

Title: Town Administrator

Date: April 26, 2006

Part II. Self-Assessment

The Storm Water Management Program TIME FRAMES submitted with our application generally remain on target. By-Law changes and Planning Board Rules and Regulation changes have been implemented. Work continues at Choate Pond as this is slightly behind schedule but expected to be complete within the next two months. However, Medway continues to be in a state of financial crisis. Fiscal Year 2006 which started with a $2.7 million shortfall in revenue has now unearthed an additional $1.8 million dollar shortfall. We are currently before the State Legislature requesting deficit financing. This shortage has resulted in considerable spending reductions and layoffs at a variety of levels. Much of the work proposed under the Storm Water Management Program has been impacted as Medway's Department of Public Services has had a 25% budget reduction from FY 2005 levels. Many of the BMP's are focused on education, awareness, and public participation that does not require much in funding. These areas remain our primary focus at present.

Medway is committed to improving its water quality. Funding for capital improvements to Choate Pond to aid circulation and cleaning was approved at the 2004 Annual Town Meeting. This funding was provided entirely by the Town without any State or Federal aid. In the summer of 2005, the pond was drained and dredged. An additional 2 to 3 feet of depth was gained in many areas. Also, Biocord filters and circulation pumps were installed. Wiring of the pumps needed to be redesigned and was delayed. This will be completed in spring, 2006.

A new public volunteer group emerged in 2006. They are the "Friends of Choate Park." This group has provided a wealth of funds and public interest and awareness for the pond and adjacent park. The group has been supported and encouraged by the Medway DPS and the Parks Commission. The pond continues to be a focal point of public involvement, news articles, and serves as a springboard for new initiatives in our stormwater management strategies.

The Town web site continues to make progress and gain popularity. Using the EPA's web site, we have incorporated links to again build public awareness. However, these links are constructed as public awareness/education tools and not as primary sites in their own rite. Many states appear to be creating statewide web sites for this purpose where local towns and districts can provide a link. Without such assistance from the State, the Town provided information will be limited due to funding constraints.

Several boards in Town continue to discuss methods to improving water quality. Much of the concern is focusing on pre- and post-construction run-off for larger residential and commercial projects. Such rising concern is evidence that efforts to raise public awareness is succeeding. The Planning Board has incorporated changes into new rules governing "open space" development. Now, the land's pre-construction features and natural hydrology are mapped and planned into the design elements of a project. This is a prime focus of low impact development. Similar thinking is now proposed for special "community" developments and will be expanded to traditional development within the next year or two.

In August of 2005, we responded to the EPA regarding comments from the Conservation Law Foundation (CLF) and the Charles River Watershed Association (CRWA) on our initial Notice of Intent. We concluded that response with this. "We are heartened by the last statement made in the letter from CLF and CRWA. They say that they welcome the opportunity to work with the EPA and Medway. Our principle constraint will be financing for the foreseeable future. The Town is under a host of other regulatory obligations in regards to education, safety, and health of our citizens. We believe that a more coordinated effort can lower costs and achieve better results over time. We also would welcome an opportunity to receive more guidance and content from the EPA, DEP, CLF, CRWA, and any other group with expertise in this area." At present, this statement remains true, however, even with a host of constraints, we believe that true progress is on-going. This progress is more heard than seen in the conversations of our public leaders, boards, developers, and the general public. We are a community working to save our future water quality.

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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
1	NEWSPAPER ARTICLES	DPS/ DAVID D'AMICO	RAISE PUBLIC AWARENESS	HHW collection advertised and held w/ 150+ residents, articles on Choate Pond condition continue to be published. Friends of Choate is created. Stormwater and water quality information on the Town web site	HHW collection day scheduled May 13th. Continue web announcements, Friends of Choate activites and news articles.
Revised					
2	PUBLIC MEETINGS	BOH/BILL FISHER	CHOATE POND/CHICKEN BROOK CLEAN UP	Public meetings with Conservation Commission, Board of Health, and Parks Commissioners held.	Continue Board of Health meetings on water quality
Revised					
11	SCHOOL OUTREACH	SCHOOL DEPT/DR. RICHARD GRANDMONT	SCIENCE CURRICULUM INCLUDES WATER RESOURCES TOPICS	Provided EPA materials on education to Medway Public School Superintendent. Began integration into curriculum.	Continue outreach program.
Revised					

1a. Additions

13	PUBLIC MEETINGS	BOARD OF SELECTMEN	UPDATE ON NPDES ANNUAL REPORT	New BMP	Update Board of Selectmen at televised public meeting on this annual report.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
12	CROSS COMMITTEE INVOLVEMENT	TOWN ADMINISTRATOR	RAISE PUBLIC AWARENESS	No progress on cross-committee meetings. Emphasis on financial issues. However, conversation, awareness, rule changes, and implementation changes have become very evident.	Establish joint meetings and goals with Planning Board, Conservation Committee, Design Review Committee, Building Inspector, DPS Director on revised construction rules geared toward ecological awareness/improvements.
Revised					

2a. Additions

14	CHOATE PARK CLEAN-UP DAY	PARKS COMMISSIONERS	SUCCESSFUL CLEAN-UP HELD WITH GOOD PARTICIPATION	New BMP	Advertise and hold a Choate Park Clean-Up Day to raise awareness about Choate Pond and the surrounding watershed.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
3	WEEKLY TESTING	DPS/DAVID D'AMICO	MAINTAIN LOW ECOLI LEVELS	Choate Pond closed for swimming this season as Biocord filter / dredge project began.	Continue testing with Biocord filters and pumps in place. Swimming may not be allowed this season.
Revised		BOH/BILL FISHER			
4	319 GRANT APPLICATION	BOH/BILL FISHER & DPS/DAVID D'AMICO	WATER PURIFICATION PROJECT	Biocord filters installed. Dredging/cleaning of pond also accomplished. Circulating pumps to be wired in late spring of 2006.	Further action dependant on test results from BMP #3.
Revised	WATER PURIFICATION PROJECT		IMPROVE CHOATE POND WATER QUALITY		
5	MAINTAIN STORM SEWER SYSTEM MAP W/OUTFALLS	DPS/DAVID D'AMICO	STORM SEWER SYSTEM MAP MAINTAINED	Severe budget and personel cuts limited catchbasin labeling. Some areas done through involvement of local Boy Scout troops.	Label catchbasins if funding allows.
Revised					
6	REGULATE STORMWATER MGT & EROSION CONTROL	DPS/DAVID D'AMICO & TA/GREG BALUKONIS	REGULATIONS PASSED	Annual Town Meeting approves new Town By-Laws.	Continue revisions to Planning Board Rules and Regulations geared toward low impact development.
Revised					

3a. Additions

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
7	SILT FENCING, HAY BALES	BLDG INSPECTOR/BOB SPERONI	NO RUNOFF INTO STORMWATER SYSTEM	New regulations passed, but clearer responsibilities still needed for work outside of the Planning Board process.	Better enforcement new regulations.
Revised					
8	PUBLIC WAY CLEANUP	DPS/DAVID D'AMICO	INSURE NO SILT ON THE ROAD ADJACENT TO AREA	Street sweeping / catch basin cleaning complete.	Street sweeping / catch basin cleaning.
Revised					

4a. Additions

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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
Revised					
Revised					
Revised					
Revised					

5a. Additions

15	CONSTRUCTION INSPECTIONS	DPS/D. D'AMICO; PLANNING BOARD/PB MEMBERS; BUILDING INSPECTOR/R. SPORONI	PROJECTS COMPLETED PER PLAN; REDUCED STORMWATER RUN-OFF POST CONSTRUCTION	New BMP	Provide inspections to assure compliance with Town By-Laws, building code, and new Planning Board Rules and Regulations
16	NEW BY-LAWS INCORPORATING LOW IMPACT DESIGN DEVELOPMENT	PLANNING BOARD/PB MEMBERS	NEW OR AMMENDED BY-LAWS PASSED	New BMP	Create new or amended by-laws to require that land's pre-construction features and natural hydrology are mapped and planned into the design elements of a project

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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
9	WASH DOWN AREA	DPS/DAVID D'AMICO	HOLDING TANKS INSPECTED & CLEANED	Drains repaired and operating properly. Routine maintenance on-going. Lack of funds prevented any further progress in this area.	Install outdoor wash pad if funding is available.
Revised	CONSTRUCT NEW TRUCK WASH AREA WITH ZERO DISCHARGE	SAME	NEW TRUCK WASH AREA CONSTRUCTED		
10	SALT SHED	DPS/DAVID D'AMICO	COVERED & COFFER DAMED	On-going maintenance.	Continuing to seek funding for new construction/new location in 5 years.
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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

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)	

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Watershed Management
BRP WM 08A NPDES Stormwater General Permit Notice of Intent
for Discharges from Small Municipal Separate Storm Sewer Systems (MS4s)
F. Storm Water Management Program TIME FRAMES

Transmittal Number
Facility ID (if known)

	PERMIT YEAR ONE				PERMIT YEAR TWO				PERMIT YEAR THREE				PERMIT YEAR FOUR				PERMIT YEAR FIVE				
BMP ID #	**Spring 03**	**Summer 03**	**Fall 03**	**Winter 03-04**	**Spring 04**	**Summer 04**	**Fall 04**	**Winter 04-05**	**Spring 05**	**Summer 05**	**Fall 05**	**Winter 05-06**	**Spring 06**	**Summer 06**	**Fall 06**	**Winter 06-07**	**Spring 07**	**Summer 07**	**Fall 07**	**Winter 07-08**	**Next Permit**
1																					
2								X				X				X				X	
3		X				X				X				X				X			
4		X							X												
5																					
6									X	X											
7																					
8																					
9	X		X		X		X		X		X		X		X		X		X		
10																					
11									X												
12																					
13									X				X				X				
14									X				X				X				
15																					
16														X				X			