

**Municipality/Organization:** WRENTHAM, MASSACHUSETTS

**EPA NPDES Permit Number:** MAR041175

**MassDEP Transmittal Number:** W036282

**Annual Report Number  
& Reporting Period:** April 1, 2006 – March 31, 2007

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## NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2007)

### Part I. General Information

**Contact Person:** Robert J. Reardon **Title:** DPW Superintendent

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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:** John J. McFeeley

**Printed Name:** John J. McFeeley

**Title:** Town Administrator

**Date:** 4/24/07

## **Part II. Self-Assessment**

During Permit Year 4, Draft Stormwater Bylaws were developed that included provisions for Illicit Discharge Detection and Elimination, Construction Site Stormwater Controls, and Post-construction site stormwater controls. These Draft Bylaws are still under review and have not been presented to Town Meeting for approval. Finalization of this document is anticipated during Permit Year 5 and the Town of Wrentham plans to submit the finalized document for approval at the Fall ('07) Town Meeting.

The town has completed the self-assessment and has determined that our municipality is in compliance with permit conditions, either through completed activities or planned activities.

### 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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
1a Revised	Distribute/Post Nonpoint Source Pollution Posters	DPW Superintendent	Post in all schools and town buildings	During Permit Year 1, nonpoint source pollution posters were given to all fifth grade teachers at the Roderick School to hang in their classrooms, and posters were also distributed to town office buildings. Posters remained hanging in public locations (Schools, post office, etc.) throughout Permit Year 4.	Nonpoint source pollution posters will remain hanging in public locations during Permit Year 5.
1b Revised	Air Stormwater Message on Local Cable Access Channel	DPW Superintendent	Post one message every month	The town has put together a list of stormwater messages to be aired on the local cable access channel. A new message is aired each month. These messages were aired during Permit Year 4.	In Permit Year 5, the town intends to continue to televise both the public education workshop and the list of stormwater messages on the Wrentham Cable Access Channel.
1c Revised	Obtain and Distribute Auto Repair Shop Brochures	DPW Superintendent	Distribute to all impacted local businesses	A brochure was obtained during Permit Year 1 to send to auto repair shops regarding the proper storage and disposal of waste oil. During Permit Year 2, the town developed a letter to mail to all auto repair shops along with the brochure. The brochure was mailed in Permit Year 4.	No activities are planned for Permit Year 5.
1d Revised	Add Stormwater Information to Town's Website	DPW Superintendent	Update information quarterly to address seasonal concerns	During Permit Year 1, a list of stormwater links was developed to be added to the town website. The town is still redesigning the website and will add the links in Permit Year 5.	The list of stormwater links, and other pertinent stormwater information will be added to the town website to help in educating residents and local business owners during Permit Year 5.

le	Prepare and Distribute Stormwater Brochure	DPW Superintendent	Distribute to local residents, businesses, and schools	During Permit Years 1 and 2, the town prepared and printed a brochure that targets homeowners, and informs them what they can do to prevent stormwater pollution. Approximately 100 brochures were distributed in Permit Year 4, for a total of 250.	During Permit Year 5, the town will reprint 250 copies of the brochure and continue to make brochures available to residents at Town Hall.
Revised					
Revised					

**1a. Additions**


## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
2a	Hold Public Meetings with Local Residents	DPW Superintendent	Conduct two public meetings during the permit cycle	In Permit Year 2, a public meeting was held in conjunction with the Board of Selectman's weekly meetings and was aired live on the cable access channel. It was aired again for a total of 29 viewings. The public meeting for Permit Year 3 will be held in Permit Year 5, in conjunction with presentation of the town-wide Stormwater Management Plan.	A public meeting is planned for Permit Year 5 in conjunction with the town-wide Stormwater Management Plan currently being finalized.
Revised					
2b	Coordinate Public Outreach Program	DPW Superintendent	Conduct two workshops for residents over the permit cycle	Eight public education workshops were conducted with a total of approximately 200 fifth-grade children at the Roderick School during Permit Year 1. Articles about the workshops were placed in two local newspapers, The Sun Chronicle and The Country Gazette. One workshop was taped and has aired on the town's cable access channel during Permit Years 3 and 4 approximately once per month.	The public education workshop that was taped at the Roderick School will air on Wrentham's local cable access channel during Permit Year 5.
Revised					

2c	Hold Hazardous Waste Collection Day	Wrentham Recycling Committee	Hold collection day once every year	The Wrentham Recycling Committee held an annual household hazardous waste collection day in May of 2004 and have continued it through Permit Year 4. A sampling of those materials collected included antifreeze, brake fluid, motor oil, batteries, fertilizers, fuels, paint, pesticides, mercury containing items and solvents. In addition, waste oil is collected from residents at the DPW the first Saturday of every month, beginning in Permit Year 1 and continuing through Permit Year 4. In addition to their own household hazardous waste collection day, Wrentham residents are also now allowed to participate in the annual household hazardous waste collection days of three neighboring towns as part of a consortium. These days are held in the spring and fall.	The Wrentham Recycling Committee will continue to hold the annual household hazardous waste collection in May each year. During Permit Year 5, the town will also continue to collect waste oil from residents at the DPW the first Saturday of every month. The Town also has used tire drop offs at the DPW and weekly curbside recycling pickup.
Revised					
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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
3a	Map Outfalls and Receiving Waters	DPW Superintendent	Develop map in first permit year and map 25% of outfalls that drain urbanized areas in each year after	All outfalls within Phase II urbanized areas were mapped during Permit Years 1 and 2. A drainage system database was also configured and linked to the drainage mapping, and includes datasets for the following drainage features: drain manholes, catch basins, drainage pipes, and outfalls. Also, where available, inspection forms completed and digital photographs taken during the outfall inspection work completed during Permit Year 1, were linked to the individual outfalls. The Town completed populating the datasets during Permit Year 4.	No activities are planned for Permit Year 5.
Revised					
3b	Review Existing Bylaws and Regulations	DPW Superintendent	Determine if existing bylaws and regs fulfill EPA requirements	The town's existing Stormwater and Runoff Management Regulations were reviewed. Recommended changes to these regulations to ensure compliance with EPA plan requirements will be included in the town-wide Stormwater Management Plan currently being finalized. No tasks were scheduled for Permit Year 4.	Submittal of the Stormwater Bylaw for Town Meeting approval is planned for Permit Year 5.
Revised					
3c	Develop Illicit Discharge Detection & Elimination Plan	DPW Superintendent	Make recommendations for inclusion into proposed plan	IDDE plans were included in development of the Stormwater Bylaw.	Submittal of the Stormwater Bylaw for Town Meeting approval is planned for Permit Year 5.
Revised					
3d	Develop/Modify General Illicit Discharge Bylaw	DPW Superintendent	Propose recommendations for modifying/developing bylaw	A Draft General Illicit Discharge Bylaw is included in development of the Stormwater Bylaw	Submittal of the Stormwater Bylaw for Town Meeting approval is planned for Permit Year 5.
Revised					

3e	Present Bylaw for Town Meeting Action	DPW Superintendent	Make Presentations for Town Meeting Action	None to date.	During Permit Year 5, the general illicit discharge plan will be presented for Town Meeting action as part of the proposed Stormwater Bylaw.
Revised					
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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
4a	Review Existing Site Inspection Practices	DPW Superintendent	Determine if existing practices fulfill EPA requirements	During Permit Year 2, the town's existing erosion/sedimentation control and drainage submittal requirements, as well as their site inspection practices, were reviewed. No tasks were scheduled for Permit Year 4.	None planned for Permit Year 5.
Revised					
4b	Develop/Modify Site Inspection Program	DPW Superintendent	Make recommendations for modifying existing program	During Permit Year 2 and 3, the town's erosion/ sedimentation control and drainage submittal requirements, as well as their site inspection practices were reviewed. No activities were conducted during Permit Year 4.	Submittal of the Stormwater Bylaw for Town Meeting approval is planned for Permit Year 5.
Revised					
4c	Review Existing Bylaws and Regulations	DPW Superintendent	Determine if existing bylaws and regs fulfill EPA requirements	During Permit Year 2 and 3, existing applicable bylaws were reviewed to determine if they met EPA requirements for construction stormwater runoff control. No activities were conducted during Permit Year 4.	Submittal of the Stormwater Bylaw for Town Meeting approval is planned for Permit Year 5.
Revised					
4d	Develop/Modify Bylaw for Construction Site Runoff	DPW Superintendent	Propose recommendations for modifying/developing bylaw	A Draft Construction Site Runoff Bylaw was developed as part of the Stormwater Bylaw in Permit Year 3. No activities were conducted during Permit Year 4.	Submittal of the Stormwater Bylaw for Town Meeting approval is planned for Permit Year 5.
Revised					
4e	Present Bylaw for Town Meeting Action	DPW Superintendent	Make Presentations for Town Meeting Action	None to date.	Submittal of the Stormwater Bylaw for Town Meeting approval is planned for Permit Year 5.
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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
5a	Review Existing Site Inspection Practices	DPW Superintendent	Determine if existing practices fulfill EPA requirements	During Permit Year 2, the town's existing site inspection and maintenance practices were reviewed to determine whether the existing site inspection and maintenance practices complied with EPA's stormwater management plan requirements. No tasks were scheduled for Permit Year 3 or 4.	None planned for Permit Year 5.
Revised					
5b	Develop/Modify Inspection and Maintenance Practices	DPW Superintendent	Make recommendations for modifying existing practices	During Permit Year 2, existing site inspection and maintenance practices were reviewed.	Recommended changes to these existing practices will be included in the town-wide Stormwater Bylaw in Permit Year 5.
Revised					
5c	Review Existing Bylaws and Regulations	DPW Superintendent	Determine if existing bylaws and regs fulfill EPA requirements	During Permit Year 2, regulations regarding the control of post-construction stormwater runoff, including the Stormwater Runoff and Management Regulations, were reviewed.	Recommended changes to these existing practices will be included in the town-wide Stormwater Bylaw in Permit Year 5.
Revised					
5d	Develop/Modify Bylaws for Post-Construction Site Runoff	DPW Superintendent	Propose recommendations for modifying/developing bylaw	A Draft Post-Construction Site Runoff Bylaw was developed in Permit Year 3.	A Post-Construction Site Runoff Bylaw that satisfies EPA requirements will be finalized and presented, as part of the Stormwater Bylaw, for acceptance at town meeting during Permit Year 5.
Revised					
5e	Present Bylaw for Town Meeting Action	DPW Superintendent	Make Presentations for Town Meeting Action	None to date.	This bylaw will be presented for Town Meeting action during Permit Year 5.
Revised					

**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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
6a Revised	Street Sweeping Program	Department of Public Works	Sweep all streets up to twice per year	The DPW swept all streets in Wrentham at least once during Permit Year 4. Some streets were swept twice once during the spring and once during the fall.	During Permit Year 5, the DPW will continue to sweep all streets in Wrentham up to twice per year, typically once during the spring and once during the fall.
6b Revised	Catch Basin Cleaning Program	Department of Public Works	Clean all catch basins at least once per year	The town cleaned all catch basins at least once during Permit Year 4. Some catch basins may have been cleaned more frequently if there was significant sediment accumulation.	During Permit Year 5, the DPW will continue to clean all catch basins at least once per year.
6c Revised	Perform Site Visits to Examine Existing Practices at Town Facilities	DPW Superintendent	Target all applicable municipal facilities	The town performed site visits to examine existing practices at municipal facilities. This practice is ongoing.	The Town will continue periodic inspections of municipal facilities during Permit Year 5.
6d Revised	Train Municipal Employees at Each Town Facility	DPW Superintendent	Target all applicable municipal facilities	The town trained employees at all applicable municipal facilities. In addition, off-site training through MHD or the DEP is conducted as available.	Training of employees will be ongoing during Permit Year 5.
6e Revised	Perform Follow-ups to Ensure Required Practices are Met	DPW Superintendent	Target all applicable municipal facilities	Annual follow-ups were performed during Permit Year 4 at municipal facilities to ensure that employees working at these facilities are following the required stormwater management practices, and that new employees are receiving the required training.	Follow-ups to training activities will be ongoing during Permit Year 5.
Revised					

**6a. Additions**


**7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>**  
*This Section is not applicable.*

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
Revised					
Revised					
Revised					
Revised					

**7a. Additions**


**7b. WLA Assessment**

Not applicable – while there are Category 5 “Waters Requiring a TMDL” water bodies and/or segments identified in the Final 2004 Integrated List of Waters, there are no approved TMDL reports. Therefore, there are no WLAs to be implemented.

**Part IV. Summary of Information Collected and Analyzed**

Fifteen different outfalls were sampled during two wet weather events during Permit Year 2. These outfalls discharged stormwater to a number of different surface water resources, which included Lake Pearl, Lake Archer, Mirror Lake, Desert Brook, Uncas Brook, Eagle Brook, and Meadow Brook. The outfall sampling results were evaluated and three locations for structural improvements were identified and prioritized. One will be constructed during Permit Year 5 and two will be bid during Permit Year 5.

**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**

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	No – the BOH agent and DPW Director jointly oversee stormwater management activities
Annual program budget/expenditures **	(\$)	\$45,000/yr. for replacement of drainage structures
Total program expenditures since beginning of permit coverage	(\$)	\$120,000
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		Capital improvements/Town Meeting

**Education, Involvement, and Training**

Estimated number of property owners reached by education program(s)	(# or %)	10%
Stormwater management committee established	(y/n)	No



Stream teams established or supported	(# or y/n)	Yes – 2-3 annual clean up days supported
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 **	(#)	1 (annually)
▪ community participation **	(# or %)	10%
▪ material collected **	(tons or gal)	2035 gal
School curricula implemented	(y/n)	Yes
<b>NOTE: Waste oil collected = 1500 gal/yr</b>		

**Legal/Regulatory**

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

	(Preferred Units)	Response
Outfall mapping complete	(%)	100% (urbanized areas under town jurisdiction only)
Estimated or actual number of outfalls	(#)	Approx. 200 outfalls (urbanized areas under town jurisdiction only)
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100% (only areas that are not urbanized remain)
<b>Mapping method(s)</b>		
▪ Paper/Mylar	(%)	20% (includes only areas that are not urbanized)
▪ CADD	(%)	0%
▪ GIS	(%)	80%
Outfalls inspected/screened **	(# or %)	100% of those mapped in urbanized areas
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	70%
Illicit discharges identified **	(#)	2
Illicit discharges identified (Since beginning of permit coverage)	(#)	2

Illicit connections removed **	(#); and (est. gpd)	0 (ongoing)
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	
% of population on sewer	(%)	0
% of population on septic systems	(%)	100% (not including Massachusetts DMR Facility)

### Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	0 (see note)
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100%
Site inspections completed **	(# or %)	N/A
Tickets/Stop work orders issued **	(# or %)	N/A
Fines collected **	(# and \$)	N/A
Complaints/concerns received from public **	(#)	N/A
NOTE: 20 new homes constructed in cluster development – lot sizes < 1 acre		

### Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	0%
Site inspections (for proper BMP installation & operation) completed **	(# or %)	100%
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Y
Low-impact development (LID) practices permitted and encouraged	(y/n)	Y

## Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1/yr
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	2/yr
Qty of structures cleaned **	(#)	700
Qty. of storm drain cleaned **	(%, LF or mi.)	100 %
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	1200 lb.
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Compost
Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	In house
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	In house
• Disposal cost**	(\$)	-
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1
• Vacuum truck(s) owned/leased	(#)	0
• Vacuum trucks specified in contracts	(y/n)	0
• % Structures cleaned with clam shells **	(%)	100
• % Structures cleaned with vactor **	(%)	0
Average frequency of street sweeping (non-commercial/non-arterial streets) **		
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/yr
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	1500 lb.
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Compost
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	0
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	In house
• Disposal cost**	(\$)	-
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1

• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	0
• % Roads swept with rotary brush sweepers **	%	100
• % Roads swept with vacuum sweepers **	%	0

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	Controlled by DPW
▪ Herbicides	(lbs. or %)	"
▪ Pesticides	(lbs. or %)	"
Integrated Pest Management (IPM) Practices Implemented	(y/n)	N/A

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used **  (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % CaCl <sub>2</sub> % MgCl <sub>2</sub> % CMA % Kac % KCl % Sand	Granular CaCl <sub>2</sub> and Sand: 1/1 ratio; Liquid CaCl <sub>2</sub>
Pre-wetting techniques utilized **	(y/n or %)	Yes
Manual control spreaders used **	(y/n or %)	No
Zero-velocity spreaders used **	(y/n or %)	Yes - Automated Spreaders
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/l <sub>n</sub> mi. or %)	800-900 tons of sand

Estimated net reduction or increase in typical year sand application rate **	(±lbs/l <sup>n</sup> mi. or %)	Yes
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100
Storage shed(s) in design or under construction	(y/n or #)	N
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	Y

### Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	N
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	Y
<ul style="list-style-type: none"> <li>Treatment units induce infiltration within 500-feet of a wellhead protection area</li> </ul>	# or y/n	Y