

MUNICIPALITY/ORGANIZATION: Town of Rehoboth

EPA NPDES PERMIT NUMBER: MAR041152

REPORTING PERIOD: April 1, 2006 - March 31, 2007

NPDES Phase II Small MS4 General Permit
ANNUAL REPORT
#4

Part I. General Information

Contact: Jane Miller Title: Town Planner & Conservation Agent
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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: STEPHEN MARTIN

Title: CHAIRMAN, REHOBOTH BOARD OF SELECTMEN

Date: April 17, 2007

Part II. Self-Assessment

The Town of Rehoboth has completed the required self-assessment and has determined that the municipality is in

- **complete compliance with three (3) of the permit conditions including...**
 - BMP 2.1 *Successful implementation of a stormwater committee in Permit Year 4,*
 - BMP 2.3 *Roadside clean-up successfully implemented prior to permitting years,*
 - BMP 3.4 *Oil collection/recycling successfully implemented prior to permitting years;*

- **partial compliance with seven (7) of the permit conditions including...**
 - BMP 1.6 *Existing tributary signage identified; Committee has yet to identify additional areas that would benefit from signage,*
 - BMP 1.3 *Municipality shares urbanized areas with MassHighway; BMPs approved for MassHighway have been collected; analysis to remove any redundancy between the Town and state's responsibilities has not begun,*
 - BMP 3.3 *Storm sewer system structures within urbanized areas have been inventoried; map has yet to be drafted,*
 - BMP 4.2 *Site plan review process that meets most of the criteria is addressed via the zoning by-law, subdivision regulations and WPA; Committee to review regulations to determine if modifications/additions are necessary,*
 - BMP 4.3 *Construction site inspection requirements is addressed via the zoning by-law, subdivision regulations and WPA; Committee to review regulations to determine if modifications/additions are necessary,*
 - BMP 4.4 *Sanctions are conditioned per the zoning by-law, subdivision regulations and WPA; Committee to review regulations to determine if modifications/ additions are necessary,*
 - BMP 6.1 *O & M plan developed by the Highway Department is partially developed and implemented by the Highway Department; Committee to review existing procedures to determine if modifications/additions are necessary;*

- **and has made little to no progress on the remaining seventeen (17) permit conditions.**

The Town designated their Conservation Agent to be the position responsible for fulfilling many of the requirements of the EPA and the Massachusetts DEP stormwater regulations. Since the beginning of Rehoboth's first permit year in March 2003, the Town either has been without an Agent or without an Agent willing to contribute in this capacity for a majority of the permitting time. Permit year four is the first year the Town has steadily employed one individual in the capacity of Agent. This Agent worked with the Select Board to re-establish the Stormwater Management Implementation Committee comprised of residents and municipal employees charged with bringing the Town into compliance with the EPA as well as addressing stormwater concerns in non-urbanized areas.

The re-organized Committee held their first meeting in January 2006 and accomplished the following tasks through March 2007, the end of the current permitting period:

- Inventoried and assessed all stormwater structures in the Town's five urbanized areas
- Reviewed the originally filed Notice of Intent and its proposed BMPs
- Drafted this Annual Report for the fourth permitting year for submission to the EPA and DEP by the Select Board, proposing several additional BMPs and modifications (including modification to the original Notice of Intent to avoid redundancy throughout the six sections) to more appropriately serve the Town and ensure compliance with the EPA

Based upon the above efforts by the Stormwater Committee, all six sections outlined below in Section III have been significantly revised: BMPs have been relocated to more appropriate sections, BMPs have been proposed to be abandoned, many BMPs remain in place but with revised language or measurable goals, and several new BMPs have been added to comply with PII. The Committee anticipates an extremely productive spring and summer drafting appropriate regulations and delegating responsibilities and enforcement authorities as appropriate.

Part III. Summary of Minimum Control Measures

Continued on pages 4 - 9.

1. Public Education & Outreach

BMP ID #	BMP Description	Responsible Party	Measurable Goal(s)	Permit Year 3 Progress Apr 06 - Mar 07	Planned Activities Permit Year 5
1.1	Public Education Outreach Program - Publish articles and direct mailings	Committee	Reach 100% of residents with publication in Rehoboth Reporter and direct mailer(s)	None	Publish monthly articles in Rehoboth Reporter beginning May 2007 and plan town-wide mailer to be included in tax bills
1.2	Stormwater Informational Videos - Broadcast on local public access channel	Committee / RePAC	Reach residents with cable access	None	Request RePAC to run EPA's stormwater video once a month beginning April 2007, research other options for broadcast
1.3	Form partnership	Committee	Eliminate redundancy addressing stormwater requirements along state highways	None	Coordinate with MassHighway in urbanized areas along state highways
1.4	Information Library	Town Planner & Agent	Maintain publicly-accessible stormwater material (books, posters, videos, etc)	None	Establish April 2007 in BOS office
1.5	Educational Bulletin Board	Committee / Town Planner & Agent	Target visitors to Town Hall and/or library	None	Identify best location and establish by May 2007
1.6	Tributary Signage	Committee / Highway Dep't	Identify and permanently sign valuable resource areas	None	Identify existing signage and permanently sign remaining valuable resource areas for completion by September 2007

2. Public Participation & Involvement

BMP ID #	BMP Description	Responsible Party	Measurable Goal(s)	Permit Year 3 Progress Apr 06 - Mar 07	Planned Activities Permit Year 5
2.1	Stormwater Phase II Implementation Committee - Municipal residents and employees	BOS Office	Establishment of group to implement the plan	Established in 2004, re-established successfully in '06	Completed / Continuing
2.2	Public Meeting(s) to discuss all proposed by-laws and regulations	Committee	Inform and gather comments from residents, municipal representatives, business owners, and construction/development groups	None	Advertise, distribute invitations, hold meeting(s) and televise live allowing call-in questions and comments mid to late summer prior to October Special Town Meeting
2.3	Roadside Clean-up Month	Rehoboth Business Association	Reduce roadside waste entering resources/ stormwater structures	April 2005 - 340 bags of refuse picked up April 2006 - 350 bags of refuse picked up	Completed / Continuing Future Dates: APRIL 2007 & APRIL 2008

3. Illicit Discharge Detection & Elimination

BMP ID #	BMP Description	Responsible Party	Measurable Goal(s)	Permit Year 3 Progress Apr 06 – Mar 07	Planned Activities Permit Year 5
3.1	Stormwater Illicit Discharge Officer	Committee / BOS	Prepare municipal employee job description for approval by BOS	None	Committee to review professional and/or clerical staffing needs (enforcement of UAs or whole Town?) by April 2008
3.2	By-law prohibiting non-stormwater discharges into MS4 with enforcement procedures and actions	Committee	Legal mechanism to reduce non-stormwater discharges into MS4	None	Submit general by-law at October 2007 Special Town Meeting
3.3	Storm Sewer System Map of all outfalls into US waters	Committee	Completion and dissemination of map	All structures inventoried	Map to be completed Spring 2007
3.4	Oil Drop-off Days	Board of Health / Highway Department	Reduction in potential illicit discharges	One collection day April 2006, Collected approx 300 gal.	Future Date(s): April 7, 2007, March 2008
3.5	Detection Plan: Official municipal stormwater contact	Committee/BOS	Respond to complaints and inquiries within 48 hours and maintain log	Conservation/Highway Department have logged and responded to near 100% of concerned residents (discharges not all resolved)	Establish an official and appropriate existing department/position to receive and follow-up on concerns by May 2007, advertise the contact information
3.6	Educate public, employees, and businesses about hazards of illegal discharges	Committee	Deliver informational material to municipal workers; also see Section 2.1	None	Gather and prepare informational material for distribution to municipal workers; also see Section 2.1

4. Construction Site Runoff Control

BMP ID #	BMP Description	Responsible Party	Measurable Goal(s)	Permit Year 3 Progress Apr 06 - Mar 07	Planned Activities Permit Year 5
4.1	Erosion & Sediment Control By-law	Committee	Legal mechanism to reduce non-stormwater discharges into MS4	None - WPA/CC, PB subdivision regulations, ZBL address most sites	Review existing by-laws to determine if sufficient, recommend changes as applicable to October 2007 Special Town Meeting
4.2	Site plan review procedure: potential water quality impacts	Committee	Legal mechanism to review potential impacts	SPA By-law 1990: ZBL 6.7.6.01(f) Groundwater Protection District since 1990: ZBL 4.5	Review existing by-laws to determine if sufficient, recommend changes as applicable to October 2007 Special Town Meeting
4.3	Mechanisms for site inspection and enforcement	Committee	Legal mechanism to allow for on-site inspection/enforcement	ZBL/WPA allows for site inspection and enforcement since 1990	Review existing by-laws to determine if sufficient, recommend changes as applicable to October 2007 Special Town Meeting
4.4	Sanctions to ensure compliance	Committee	Legal mechanism to allow for sanctions	Building Inspector has had authority to suspend permits since 1990	Review existing by-laws to determine if sufficient, recommend changes as applicable to October 2007 Special Town Meeting
4.5	Procedure for receiving info from public		Respond to complaints and inquiries within 48 hours and maintain log	Conservation/Highway Department have logged and responded to near 100% of concerned residents (discharges not all resolved)	Establish an official and appropriate existing department/position to receive and follow-up on concerns by May 2007, advertise the contact information
4.6	Certification Procedure for Contractors	Committee	Require general contractors to prove their stormwater knowledge prior to construction	None	Consider requiring certification procedure for contractors, landscapers, installers, etc for adoption by October 2007 Special Town Meeting, as applicable

5. Post Construction Runoff Control

BMP ID #	BMP Description	Responsible Party	Measurable Goal(s)	Permit Year 3 Progress Apr 06 - Mar 07	Planned Activities Permit Year 5
5.1	BMP Operations & Maintenance Plan Requirements for new development: Long-term plan	Stormwater Illicit Discharge Officer & Highway Department Committee	Mechanism to require O&M plan and verify its implementation	None	Establish review process or O&M requirements for new development
5.2	Establish standards/requirements for use of structural and/or non-structural BMPs	Committee	Mechanism - by-law or otherwise - establish BMP standards and requirements	None	Review existing by-laws and subdivision regulations to determine if sufficient, recommend changes as applicable to October 2007 Special Town Meeting
5.3	By-law: Post-construction runoff controls (non-structural and structural)	Committee		None	Review existing by-laws and subdivision regulations to determine if sufficient, recommend changes as applicable to October 2007 Special Town Meeting
5.4	Certification Procedure for Property/Business Owners	Committee	Require managers to be familiar with their O&M plans	None	Consider requiring procedure for business owners/ managers to verify their familiarity and compliance with their O&M plans

6. Municipal Good Housekeeping

BMP ID #	BMP Description	Responsible Party	Measurable Goal(s)	Permit Year 3 Progress Apr 06 - Mar 07	Planned Activities Permit Year 5
6.1	O&M plan for municipal properties/structures	Committee / Highway Dep't	Prevent or reduce pollutant runoff from municipal operations	Written procedures for street sweeping and catch basin cleaning drafted in late 2006, catch basins cleaned and streets swept Spring 2006	
6.2	Employee Training	Committee / Highway Dep't	All Highway/BOH etc employees trained on municipal procedures	None	Implement training materials, test, etc upon approval of good housekeeping procedures

Part IV. Summary of Information Collected and Analyzed

Information collected is reflected elsewhere in this report; the Town is unable to analyze the collected information at this stage of the permitting process due to the lack of progress.

Part V. Program Outputs & Accomplishments

(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
Annual program budget/expenditures **	(\$)	\$0
Total program expenditures since beginning of permit coverage	(\$)	\$0
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		N/A

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	0%
Stormwater management committee established	(y/n)	YES
Stream teams established or supported	(# or y/n)	YES
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	N/A
Shoreline cleaned since beginning of permit coverage	(mi.)	N/A
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	1
▪ community participation **	(# or %)	60
▪ material collected **	(tons or gal)	300 gal
School curricula implemented	(y/n)	NO

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		✓			
▪ 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	(Preferred Units)	Response
Outfall mapping complete	(%)	0%
Estimated or actual number of outfalls	(#)	Unknown
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	Partial
Mapping method(s)		
▪ Paper/Mylar	(%)	✓ To Do
▪ CAD	(%)	No
▪ GIS	(%)	✓ To Do
Outfalls inspected/screened **	(# or %)	0
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	Unknown
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	Unknown
Illicit connections removed **	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	Unknown
% of population on sewer	(%)	0%
% of population on septic systems	(%)	100%

Construction	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	7 (Est)
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	85%
Site inspections completed **	(# or %)	85%
Tickets/Stop work orders issued **	(# or %)	10
Fines collected **	(# and \$)	\$0
Complaints/concerns received from public **	(#)	75 (Est)

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 %)	0%
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Small # of projects
Low-impact development (LID) practices permitted and encouraged	(y/n)	Yes, but not enforceable

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	N/A
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	Annual
Qty of structures cleaned **	(#)	1,165
Qty. of storm drain cleaned **	(%, LF or mi.)	300'
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	N/A
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	N/A
Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$22,500
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	
• Disposal cost**	(\$)	N/A
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1 - OWN
• Vacuum truck(s) owned/leased	(#)	0
• Vacuum trucks specified in contracts	(y/n)	0
• % Structures cleaned with clam shells **	(%)	100%
• % Structures cleaned with vacuor **	(%)	0
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	N/A
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	Annual
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	300 ton
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	N/A
Annual Sweeping Costs		

• Annual budget/expenditure (labor & equipment)**	(\$)	\$10,000
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	\$18.03/hr
• Disposal cost**	(\$)	1 - OWN
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1 - OWN
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	No
• % Roads swept with rotary brush sweepers **	%	ALL
• % 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 %)	Unknown
▪ Herbicides	(lbs. or %)	Unknown
▪ Pesticides	(lbs. or %)	Unknown
Integrated Pest Management (IPM) Practices Implemented	(y/n)	Unknown
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 ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	N/A 4:1 ratio Sand to salt
Pre-wetting techniques utilized **	(y/n or %)	NO
Manual control spreaders used **	(y/n or %)	8
Zero-velocity spreaders used **	(y/n or %)	N/A
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	N/A
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	900 ton

% of salt/chemical pile(s) covered in storage shed(s)	(%)	150 ton
Storage shed(s) in design or under construction	(y/n or #)	Yes
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	900 ton

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	No
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	No
<ul style="list-style-type: none"> Treatment units induce infiltration within 500-feet of a wellhead protection area 	# or y/n	Unknown