

Municipality/Organization: TOWN OF GEORGETOWN, MA

EPA NPDES Permit Number: MAR041191

MADEP Transmittal Number: W-035530

Annual Report Number

& Reporting Period: No. 4: April 1, 2006 – March 31, 2007

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: John Moultrie

Title: Highway Surveyor

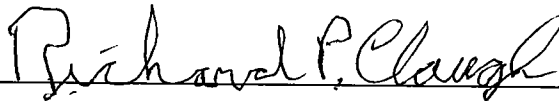
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Certification:

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: Richard Clough

Title: Chairman, Board of Selectmen

Date: April 23, 2007

Program, assisted by MVPC and the Eight Towns & The Bay organization, funded the production and direct mailing of over 3,000 “2007 Greenscape Reference Guides” to all residential households in the Town of Georgetown.

A summary of our **Permit Year 4** activities and accomplishments for each of the following six minimum control measures is presented in Part III:

- Public education and outreach
- Public involvement and participation
- Illicit discharge detection and elimination
- Construction site storm water runoff control
- Post-construction storm water management in new development and redevelopment
- Pollution prevention and good housekeeping in municipal operations

1.5	Storm Drain Stenciling or Marking	Highway Dept./ John Moultrie, MVPC/Alan Macintosh	Educate school students and residents about storm water runoff pollution and BMP's; storm drain stenciling/markings; photo news story	With advice and assistance from MVPC, the Highway Dept. developed a strategy and tentative timeline for deploying up to 1,000 metallic markers, purchased from Almetek Industries, Inc., with the messages, "No Dumping – Drains to River" and "No Dumping – Drains to Pond".	With assistance from MVPC, install storm drain markers at prominent locations in densely-developed commercial and residential neighborhoods, with a focus on the Town Center and neighborhoods surrounding Rock and Pentucket Ponds.
Revised	Due to manpower limitations, deferred installation of markers to 2007				

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
2.1	Inter-departmental Storm Water Mgmt. Committee	Highway Dept./ John Moultrie, Board of Selectmen/ Stephen Delaney, MVPC/Alan Macintosh	Appoint committee to assist Highway Dept. with development & implementation of municipal Storm Water Management Program (SWMP)	The Highway Surveyor, Town Administrator, Town Planner, Health Agent, other town personnel, and MVPC environmental staff continued to confer on the development and implementation of the town's Storm Water Management Program and other Phase II-related matters.	Convene additional SWMP Committee meetings as needed to solicit public input, chart progress, and facilitate implementation of SWMP actions.
Revised					
2.2	Municipal Board Meetings	Highway Dept./ John Moultrie, MVPC/Alan Macintosh	Meet with appropriate town boards and staff for input on municipal SWMP development.	The Highway Surveyor, assisted by MVPC, met and consulted with various town board members and staff (Selectmen, Planning, Health, Conservation) for information and advice on the continued development and implementation of the SWMP.	Continue to confer with appropriate town boards and staff to solicit input and advice, chart progress, and facilitate implementation of SWMP actions.
Revised					
2.3	Storm Water Mgmt. Website	Highway Dept./ John Moultrie MVPC/Alan Macintosh	See BMP #1.2	See BMP #1.2	See BMP #1.2
Revised					

3.4	Track Illicit Connections	Highway Dept./ John Moultrie, Health Dept./Deb Rogers, MVPC/Alan Macintosh	Develop inspection protocol; train inspectors; detect & document dry weather flows, flow sources, illicit pipe connections	The Highway Dept., assisted by MVPC, continued development of an illicit connections inspection protocol and inspector training. Following up on a limited pilot outfall inspection program initiated by MVPC in 2004, MVPC conducted additional field investigations for potential dry weather flows (3 days or more without rain). [Note: To date, no dry weather flows have been observed.]	Complete inspection protocol and inspector training. Complete dry weather flow investigations for additional 25% of outfalls in Urbanized Area.
Revised					
3.5	Remove Illicit Connections	Health Dept./ Deb Rogers	Elimination of non-municipal non-stormwater discharges to the MS4	No action.	Enforcement actions, if needed, will commence in Permit Years 5 based on results of field investigations to be conducted jointly by the Highway Dept. and MVPC, with findings to be reported to the Board of Health.
Revised					

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
4.1	Construction Site Runoff Control Bylaw/Regulation	Planning Board/Sara Buck, Highway Dept./ John Moultrie, MVPC/Alan Macintosh	Public notice, public hearing, town adoption and implementation of construction site runoff control bylaw/regulation	The Subdivision Regulations of the Code of Georgetown require construction site sediment and runoff control measures that are aimed at maximizing on-site storm water retention and minimizing soil erosion and sedimentation. Additional sediment controls are required under the Erosion Control Bylaw (Chapter 57).	Strictly regulate and monitor construction site sediment and runoff through implementation of municipal Subdivision Regulations and Erosion Control Bylaw.
Revised					
4.2	Slope Development Regulation	Planning Board/Sara Buck, Highway Dept./John Moultrie, MVPC/Alan Macintosh	Public notice, public hearing, Planning Board adoption of slope development regulation as part of Subdivision Rules and Regulations	Assisted by MVPC, the town prepared and revised a draft slope development regulation aimed at maximizing the retention of steep hillslopes in an undisturbed state and minimizing water quality impacts due to slope grading. Further review of this regulation is required before its adoption.	Further review and amend regulation as needed for Planning Board adoption in Permit Year 5.
Revised	Planning Board action on draft steep slope regulation deferred to 2007.				

5.2	BMP Operation & Maintenance Procedures	Highway Dept/ John Moultrie, MVPC/Alan Macintosh	Written procedures & personnel training manual to ensure long term operation & maintenance of storm water BMPs.	No action	Draft procedures/manual in Permit Year 5 and implement annually thereafter.
Revised	Procedures/training manual deferred to 2007/2008				
5.3	BMP Evaluation Procedures	Highway Dept/ John Moultrie, MVPC/Alan Macintosh	Written procedures & personnel training manual to evaluate and refine BMPs for purposes of ensuring long term storm water BMP effectiveness in minimizing water quality and habitat impacts.	No action	Draft procedures/manual in Permit Year 5 and implement annually thereafter.
Revised	Procedures/training manual deferred to 2007/2008				

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
6.1	Semi-annual Catch Basin Inspections & Cleanings	Highway Dept/ John Moultrie	Improve quality of storm drain discharges by maximizing catch basin sump capacity and minimizing sediment & debris buildup	The Highway Department conducted spring and fall catch basin inspections and contracted catch basin cleanings as needed in order to maintain the hydraulic and sediment removal efficiencies of the municipal storm drainage system. Problem basins were attended to more frequently as needed.	Continue spring and fall catch basin inspections and cleanings as needed.
Revised					
6.2	Annual Outfall Pipe Inspections & Cleanings	Highway Dept/ John Moultrie	Maintain capacity and operating efficiency of municipal outfalls	The Highway Department inspected the municipal storm drain outfalls and removed accumulated sediment & brush as needed to maintain unobstructed flows and prevent ponding and erosion.	Continue annual outfall pipe inspections and cleanings as needed.
Revised					

Part IV. Summary of Information Collected and Analyzed



During the summer of 2006, the Georgetown Board of Health collected weekly fecal coliform bacteria samples from the water column at Town Beach (American Legion Park) and at other locations around Pentucket Pond, an 84-acre recreational impoundment of the Parker River, the major waterway flowing through Georgetown. The sample results are presented in the table below. On one occasion in July, the bacteria level at Town Beach exceeded the state swimming water standard and the Beach was ordered closed by the Board of Health. Suspected pollution sources include stormwater runoff, domestic pet waste, inadequately treated septic effluent, and wildlife (especially geese and ducks).

PENTUCKET POND AREA SAMPLING RESULTS 2006

Sample Location	Fecal Coliform Count/100ml	Date	Action
Town Beach Water Column	30	6/14/2006	
Pentucket Pond (swamp)	97	6/14/2006	
Pentucket Pond (pipe)	9	6/14/2006	
Town Beach Water Column	92	6/21/2006	
Town Beach Water Column	180	6/28/2006	
Town Beach Water Column	110	7/5/2006	
Town Beach Water Column	400	7/12/2006	Beach Closed
2 Bartlett Drive	28	7/12/2006	
Fish & Game Boat Ramp	36	7/12/2006	
48 Pond Street	11	7/19/2006	
Town Beach Water Column	30	7/26/2006	
Town Beach Water Column	120	8/2/2006	
Town Beach - Left	90	8/2/2006	
Town Beach - Right	40	8/2/2006	
Town Beach @ 3'	9	8/9/2006	
Town Beach @ 1'	31	8/9/2006	
Town Beach @ 6'	4	8/9/2006	
Town Beach Water Column	110	8/15/2006	
Town Beach Water Column	140	8/23/2006	
Town Beach Water Column	100	8/31/2006	

The above fecal coliform bacteria data are intended to serve as a benchmark for evaluating Pentucket Pond water quality in ensuing years.

**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. Example Storm Water Management Program TIME FRAMES

Transmittal Number W 035530

Facility ID (if known)

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BMP ID #	PERMIT YEAR ONE				PERMIT YEAR TWO				PERMIT YEAR THREE				PERMIT YEAR FOUR				PERMIT YEAR FIVE				Next Permit
	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	
1.1			X								X	X									
1.2		X-----X		X	X-----X			X	X-----X			X	X-----X			X	X-----X				
1.3					X				X-----X			X									
1.4			X				X				X				X				X		
1.5					X						X	X	X				X				
2.1	X-----X			X	X-----X			X	X-----X			X	X-----X			X	X-----X				
2.2	X-----X			X				X				X				X				X	
2.3				X-----X					X-----X			X	X-----X			X	X-----X			X	
2.4				X-----X																X	
3.1	X-----X			X					X-----X				X-----X			X					
3.2	X-----X			X					X-----X				X-----X			X					
3.3					X-----X				X												
3.4									X-----X										X		
3.5													X-----X							X	
4.1					X-----X				X												
4.2					X-----X								X								
4.3	X-----X				X																
4.4	X-----X																			X	
4.5	X-----X																			X	
5.1					X-----X											X					
5.2									X-----X											X	
5.3									X-----X											X	
6.1	X-----X			X	X-----X				X-----X				X-----X			X	X-----X				
6.2	X-----X			X	X-----X				X-----X				X-----X			X	X-----X				
6.3			X				X					X	X		X				X		
6.4					X-----X							X			X						
6.5					X				X				X				X				