Municipality/Organization: Town of Marshfield, MA

EPA NPDES Permit Number: MA041048

MADEP Transmittal Number: W- 036194

Annual Report Number
& Reporting Period: No. 1: March 03-March 04

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NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: **Rod Procaccino** Title: **Acting Town Engineer**

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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: **Rod Procaccino**

Title: **Acting Town Engineer**

Date: **July 28, 2004**

Part II. Self-Assessment

The Town of Marshfield's stormwater management activities for the first year of the General Permit (March 2003 through March 2004) were in compliance with the Notice of Intent (Massachusetts DEP form BRP WM 08A) and schedule submitted dated July 21, 2003. The following assessment of activities that were included in the plan are provided below:

Public Education: 1. Continue Partnership with North and South River Watershed Association (NSRWA) (BMP ID No.1)

The Town applied and obtained a grant through the Coastal Pollutant Program (CPR) Storm water Management Watershed Assessment for tributary to the South River in the Town of Marshfield. Town officials met with NSRWA on January 5, 2004 to discuss the proposed scope of work outlined in the grant. Both the Town and NSRWA would participate in the assessment study to be implemented in the Spring 2004. Community information workshops were included in the grant and conducted for the general public and Town officials.

2. Develop Brochures: (BMP ID No. 2)

The Town added language to the Water Quality Report to emphasize aquifer protection and newly created Open Space Plan. This information is sent out on an annual basis.

3. Develop Web Site for Public Service Posting: (BMP ID No. 3)

The IT department has developed the Town wide website and is responsible for it's maintenance.

The Water Quality Report and the DPW's Operational Plan is posted on the Town's website " townofmarshfield.org "

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Public Participation: 1. Water Quality Testing (BMP ID No. 4)

The NSRWA volunteers and the Town's consultant conducted water quality sampling of the South River which is on the Massachusetts 303(d) list of impaired waters for pathogens. Sampling and testing was scheduled earlier in the spring but was delayed, and eventually completed in June 2004.

2. Community Cleanup Days (BMP ID No. 5)

The Town conducted its annual cleanup day in May 2003.

3. An open space committee was formed with representation from the DPW, Town Assessors, and Conservation Commission and other volunteers from the general public to develop an open space plan. The draft plan was created for the purpose of maintaining open space throughout the Town. Evaluation criteria was developed in order to rate properties of interest. Watershed protection was the highest priority included in the evaluation criteria.

Illicit Discharge Detection and Elimination:

1. Catchbasin/Outfall and Receiving Water Mapping (BMP ID No. 6)

The Town took steps to develop GIS Mapping capabilities. The Town's IT dept. contracted to have the Town flown over to conduct photography in March 2004 in order to obtain the most up to date information at a very high resolution. The Town was last flown over in 1975. A contract was issued to develop the GIS system which included limited planimetric mapping. This mapping will be developed to show approximately 80 percent of the Towns 4500 catch basin, manholes, outfalls and receiving waters.

The Town hired a consultant to inventory 400 outfall locations. The location coordinates and description of each outfall will be added to the mapping upon completion.

2. Water Quality Testing (BMP ID No.4)

The only testing that was accomplished was the sampling and testing associated with the South River included in the CPR grant.

3. Regulatory Review (BMP ID No. 7)

The Town of Marshfield, Town of Duxbury, and the Town of Plymouth applied for grant to develop a model storm water management bylaw through Coastal Zone Management (CZM) Coastal Nonpoint Source Grant Program in January of 2004. The three Towns received the grant and work will commence to develop regulations in the summer of 2004.

Construction Site Runoff Control:

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1. Regulatory Review (BMP ID No. 7)

Storm water management measures are required by subdivision regulation. Historically, these structures required by regulation fail during the construction phase. The BMPs are often short circuited during the initial phases of construction. Town officials have had to issue stop work orders to several developers during the past permit year. The developers were instructed to take corrective action. The DPW, Conservation Dept. and Planning Dept. have recognized the need to require more detailed explanation of construction methods being proposed. Erosion control plans, and proper construction sequencing should be addressed in the model bylaws being developed.

2. Permit Enforcement (BMP ID No. 8)

The Town has issued stop work and enforcement orders on the following subdivisions to address erosion control problems during construction:

Peregrine Woods located on South River St.
Spy Glass Landing located off Grove St.

3. Misconnection/ Illegal Dumping (BMP ID No. 9)

The Town had not discovered any illegal connections or illegal dumping impacting storm water over the past year. The Town has contracted with a consultant to document 400 storm water outfall locations. Photographs were included in the scope of work. Additional field work will be required after locations are added to the new mapping to verify connectivity.

Post Construction Site Runoff Control

1. Regulatory Review (BMP ID No. 7)

Several extreme rainfall events occurring just prior to this permit period alerted Town officials to capacity issues with existing drainage structures. During these recent storm events, flooding conditions caused significant erosion and sediment problems to brooks and ponds. Increased development has definitely impacted existing infrastructure despite of regulation in place. Several problem areas have been identified and the Town is formulating a plan to address at least two specific problems. The Town will be formulating a master drainage plan as part of the newly created DPW Operation Plan.

Telegraph Hill and Stony Brook Subdivision impact to South River St.

Telegraph Hill Subdivision impact to Peregrine White Drive.

2. Permit Enforcement (BMP ID No. 8)

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The Contractors from both subdivisions have agreed to participate to correct the South River St. drainage problem mentioned above.

Municipal Good House Keeping:

1. Improved Street sweeping (BMP ID No. 11)

The Town had implemented a plan to sweep the entire Town this Spring. Additional funding was obtained to allow the DPW to hire a private contractor to work together with the DPW sweeping operation to expedite the sweeping of the entire Town to reduce impact to the drainage system.

2. Improved Catch Basin Cleaning (BMP ID No. 12)

The Town's new Operations Director conducted an investigation of the Departments past practices of catch basin cleaning. There are approximately 1200 manholes, 3200 catch basins and 100 drop- inlets that require extensive cleaning. Based on current productivity, plans were made to obtain additional funding to hire a private contractor to expedite the process. An extensive evaluation of the drainage system will be conducted during the next permit period.

3. Household Hazardous Waste Days: (BMP ID No. 13)

The Town conducted its Household Hazardous Waste Day on 9-20-03 and continues to participate in the South Shore Recycling Organization. As a member of this organization residents are allowed to participate throughout the year in hazardous waste collection days offered by surrounding member Towns.

4. Drain Stenciling: (BMP ID No. 14)

The Town has taken no action to date.

BMP's for Meeting TMDL:

1. GIS Mapping Priority Waters and Drainage Patterns (BMP ID No. 6)

The Towns GIS program is under way and the DPW expects planimetric mapping to be completed in late fall of 2004. The new photography will serve as the basis for developing a new Geographic Information System (GIS) of the storm drain system, receiving waters and watersheds.

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Water Quality Testing (BMP ID No. 4)

Water quality testing was performed in the downtown area only. As outfalls are identified and connectivity is verified, a plan will be created to sample and test receiving waters and drainage outfalls.

2. Storm Water Modeling (BMP ID no. 15)

No action taken to date.

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