Municipality/Organization: Town of Marshfield, MA

EPA NPDES Permit Number: MA041048

MADEP Transmittal Number: W-036194

Annual Report Number & Reporting Period: No. 09: March 2011 – April 2012

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Rod Procaccino  Title: 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: [Signature]

Printed Name: Rod Procaccino  Title: Town Engineer

Date: April 27, 2012
2. Develop Brochures (BMP II No. 2)

Webiste - http://ww.w/townofmarshfield.org

The following assessment of activities that were included in the plan is provided below:

The Town of Marshfield's Stormwater Management Activities for the 2011 year of the General Permit (March 2010 through April 2011)
Community Cleanup Days (BMP ID No. 5)

Website connection and is the subscriber of the website.

These devices were installed and the DPW monitors the collection of data through a
device. The Conservation Agent escorted a group to purchase and install the new water level
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1. Water Quality Testing (BMP ID No. 4)

Public Participation:

The DEP has developed the Town's Water Quality Testing and Technical Assistance website at

http://www.townofmarshfield.org Small Wks Ph3 DEP General Permit Annual Report

Access is provided to the NIPDES Phase II Permit, General Permit, and Technical Assistance. A link to the Town's website at

4. Develop Website for Public Service Position (BMP ID No. 3)

Town officials attended a focus group sponsored by MACC on creating a stormwater utility in Lexington 4-12-12

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3. Training:

Training:

Training:

Training:

Training:
The following ponds were investigated: Governor Winthrop Pond, Blackburn Pond, Chancellorsville Pond.街 conducted field checks of 13 ponds to determine extent of town drainage system's impact to the

Street.

Interpretative layer compatible with Town GIS System.

next year. Field checks and verification accuracy of the plan. The map is being developed as an

regarded with staff, a final draft of the map will be provided in June 2012 and the town will send the

streets to verify location of structures. A draft drainage system map was provided by the consultant and

beaches developed showing connectivity of parking. The parking area is developed. A new town wide drainage system map is

The Town is in its 8th year developing its Mapping capabilities. A new town wide drainage system map is

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

Initial Discharge Detection and Phosphorus:

1. Composing at the Town Hall and sponsors distribution of Rain Barrels.

The DPW provides the General Public Hands-on workshops promoting water conservation, recycling,

2. Inquirier to the North and South Rivers.

The Town works closely with NSRWA as part of the Greencaptes Program and other programs

Recreation and Land Conservation.

and purchased 25+/- acres (Assessors 15-10-26) bringing the North River for the purpose of passive

and through Open Space Commission owned land.

The DPW, Town Assessors, and Conservation Commission and other volunteers from the general


Station also supports other neighborhood clean up efforts and the NSRWA annual River Clean-

due to the schedule date being part of the school vacation week. The Town’s Solid Waste Transfer

Station were 278 tons collected along with tires and scrap metal. The Town conducted its annual "Keep Marshfield Clean" weekend on April 14 and 15th, 2012.
Drainage system outlined indicated high levels of fecal coliform.

Only one of the sites will require further investigation. The rest results of Riverdale Circle
conductance, TDS, pH and temperature, and 12 sites were sampled and tested for fecal coliform.
3 sites screened 25 sites in June 2011, previously identified as priority sites, for specific
water quality testing (BMP II NO.4).

Based on the test results,

Based on the test results, elevated levels of fecal coliform at the outlet in July 2011. The sand filter will likely require replacement.

Potential discharge locations identified through on-site screening were reviewed for

Culvert on Union St at Pembroke/ Marshfield Town Line (25 feet)

Drainage ditches and pipe were cleaned on Union St near Lillies Farm (25 feet)

Drainage Ditches (150 feet) were cleaned on Corn Hill Lane

Drainage Ditches were cleaned on Union St from Short St to Hume Drive (600 feet)

No sediment was removed from previous identified Deleton Basins.

Cranberry Bog (Main St), Pleasant Spring Pond, Wam's Pond, Lewis Pond,

Pond, Parsons Pond, Funicare Pond, Magan Pond, Okanagan Pond, Hatfield Pond, Monroe Pond,
I. Regulatory Review (BMP II No. 7)

Construction Site Runoff Control

To increase this effort, the Town's Storm Drain System, the Environmental Division obtained funding to hire a seasonal student in 2012 to perform drainage system, storm water management, and storm water pollution prevention inspections. The student performed inspections and compiled a report on the performance of the BMPs and other storm water management practices.

The WRPD District was expanded and new zoning maps were approved at the April 2012 Town Meeting. The WRPD District requires that the WRPD Board (WRPD Special Permit Authority) review all the plans before they are approved and before the plans are submitted to the Planning Board for the Planning Board (Special Permit Authority). The revised plans are reviewed by the Planning Board, and the Planning Board (Special Permit Authority) presents proposed changes to the Board of Public Works and the Planning Board (Special Permit Authority). The Town hired a consultant and compiled a review of the Water Quality Protection By-law and Regulations and

The WRPD Board of Directors, the Special Permit Board, the Special Permit Board, and the Special Permit Board (Special Permit Authority) review all the plans before they are approved and before the plans are submitted to the Planning Board for the Planning Board (Special Permit Authority). The revised plans are reviewed by the Planning Board, and the Planning Board (Special Permit Authority) presents proposed changes to the Board of Public Works and the Planning Board (Special Permit Authority). The Town hired a consultant and compiled a review of the Water Quality Protection By-law and Regulations and

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Erosion control measures are in place.

Over the last year we have inspected the following developments that are under construction to ensure that all erosion control measures are in place:

1. South River Park - Ocean Sl.
2. Pudding Hill ARAY - Marine Hill Dr.
3. Strawberry Farm Rd. OSRD
4. Carter Gate Lane

The DPW was required to install erosion control still fence and wood chips to stabilize slope, cleared by

Volunteer Group at the ball fields located on Webster St. By the Conservation Agent,

had been taken to minimize erosion and impairs from the storm.

A she visit was conducted at all subdivisions prior to the Hurricane Irene in August 2011 to make sure measures

Builder at Columbia Road was required to sweep pavement and provide erosion control to site.

Builder at Percey Hill on Norwell St. was required to clean out a detention basin for early and provide better site

Builder at Percey Hill, on Norwell St. was required to repair site in Fall 2011.

Department’s site inspector has been monitoring the site.

sediment. Sediment was removed from drainage structures. This issue is still outstanding and the Planning

were taken concerning the problem area and if the soils occur to each basin and to sweep the road to remove

Developers on Strawberry Farm Road were warned several times to control site erosion. Corrective measures

problems during construction:

The Town has issued enforcement orders on the following subdivisions and building sites to address erosion control

2. Permit Enforcement (RPi ID No. 8)
I. Regulatory Review (BMP ID No. 7) The DPW hired a consultant to review the Town's Stormwater efforts and compliance with NPDPS permit a meeting was held with the Town Planner, Town Administrator, DPW Director, Environmental Steward, Town Building Official and DPW. The consultant is now compiling a report on the review and findings to be presented at the next meeting.

II. Permitting Process

Pending.

Planning Board approved the subdivision revisions and the developer committed to clean up the site. The developer is addressing issues related to the site.

III. Inconvenient Illegal Dumping (BMP ID No. 9)

I2. Parley’s Way
11. Perrett Lane
10. Houston St.
9. Proprietary Woods
8. Commerce Green / Villasage Green Way
7. Whites Ferry Rd.
6. White Holland
5. Wind Chime Lane

2. Permit Enforcement (BMP ID No. 8)

Scheduled in May 2017 for monthly access to hearing rooms that have been closed since 2011.

Pending.

Defenders Management Regulations were developed and presented to the Board of Public Works on February 6, 2017. To address the plan for new development and compliance. The hearing will be

compliance with NPDPS permit. A meeting was held with the Town Planner, Town Administrator, DPW Director, Environmental Steward, Town Building Official and DPW. The consultant is now compiling a report on the review and findings to be presented at the next meeting.

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800 cubic yards of catchbasin cleanings in 2011, that is currently in storage pending the disposition of the BLD.

The Town is under contract with a consultant to prepare BLD to determine method of handling and disposal of catchbasin cleanings on a long term basis.

The draft BLD is due by May 1, 2012. The Town has accumulated approximately

Recycling Technologies Landfill. An LST was hired to facilitate the removal.

The catch basin cleanings were removed from the site on 11-17-2011 and 11-18-2011 and disposed of at the Schoharie County Landfill over a 6 month period to determine disposal alternatives, for metals, recyclable materials, and EPH. The results were compiled over a six month period to determine disposal of catch basin cleanings. Enhanced (Schoharie County Year 2010). The Town received an accumulation of catch basin cleanings.

1. The Town has been in contact with DEP and is in the process of preparing a Benecial Use Determination (BUD) Application.

2. Improved Catch Basin Cleaning (BMP ID No. 11)

3. Household Hazardous Waste Day on September 17, 2011

4. The Town accepted waste oil and paint from May to November at the Transfer Station.

5. The Town conducted roadside clean-up with seasonal personnel several times a week during the summer (16 weeks).

6. Drain Screening (BMP ID No. 14) The Town has taken no action to

7. The Town has been in contact with DEP and is in the process of preparing a Beneficial Use Determination (BUD)

Municipal Good Housekeeping:

In addition to the above.

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

2. Improved Catch Basin Cleaning (BMP ID No. 11)

3. Household Hazardous Waste Day on September 17, 2011

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2. On a CWM Grant Program ($20,000), the lake area was installed in December 2009. The lake has been designed and built to provide the necessary infrastructure and support for the project. The lake helps reduce the potential for phosphorus and nitrogen loading, which can lead to eutrophication and nutrient concerns. The lake acts as a buffer, reducing nutrient levels in the water and improving water quality. The project also works to improve water quality for the purpose of protecting the water quality of the study area. The study considered the impact of altering the lake's water levels and nutrient loadings.

3. Background: Water quality testing was performed in the Green Harbor River by DR. HAM J. WHALE, Green Harbor River, CT. Water samples were collected from the upper Green Harbor River, downstream of the lake, and analyzed for various parameters. The results showed a significant improvement in water quality after the lake was installed. The study concluded that the lake was effective in reducing nutrient loadings and improving water quality.

BMPs for Meeting TMDL:

1. Sediment was removed in April 2010 as required by DEP to support permitting of Bass Creek Dredging Phase 1. The Bass Creek project was designed to remove sediment and improve water quality in the Bass Creek area.

2. The project is currently in Phase 2, focusing on the removal of the remaining sediment and the improvement of water quality.
Storm Water Model (BMP II) no. 13}

The Town hired Alion Engineers to design BMP in Ferry St. at Medford Sl. – Modeling is underway to determine impact to wetlands. The drainage structures have been sized and a plan has been prepared. The design proposal has been made on this BMP.

The DWV plans on implementing a proposed drainage improvement at the Union Sl. Bridge. The bridge reconstruction was completed in Fall 2009. The Town Highways Dept. participated in the proposed improvement by constructing the low flow bypass within the drainage system within the paved areas and limit of work during the bridge reconstruction project in the summer of 2009. The DWV will be working with the Conservation Agent and NSRWMA to implement the proposed No Progress has been requested.

2012 Construction is scheduled for May and June 2012. The SSWRWMA and the NOI was submitted and the hearing was conducted the first week in April. Final plans were prepared and the NOI was submitted on July 31, 2012. The NOI was submitted for two of the BMP sites. The South River NPS Implementation of other BMP’s.

3. South River NPS Implementation Coastal Pollutant Remediation Grant.

High bacteria contributing to the South River, and to recommendation BMP’s to provide removal of TSS and bacteriological treatment.
Some minor drainage work were paved in November 2011. Some minor drainage work can be seen in Figure 2 of 2011. The roads were installed for the summer of 2011. The roads were slightly elevated and 15 feet from the surface. 1,600 feet long along Pine Street in the fall of 2010. The Town installed a water main and water quality swale.

The free bike lane is required prior to submitting the NOI. The fee survey has been conducted. The design is complete.

A drainage system remains to be developed, permitted, and constructed. The drainage modification was completed in 2009 and 2010. The drainage modification was completed in 2009. The Town is pursuing alternative design. The draft alternative plan.

Notice of intent was prepared, submitted, and withdrawn. The 2009 project is underway.
Completion of the project began in March 2012 and will be

in March 2012.

Design contract issued ($9,500). The draft plan was submitted

Drainage System mapping and GIS drainage layer under way.

Construction of one BMP site by June 30, 2012

Town received $51,980 grant - Design contract with CEF.

Obtain the necessary permits.

DPW has been working with the Airport officials and DEP to

achieve a functional and sustainable mitigation for the project. The

improvement project will include the following:

million PA grant for the Marshfield Municipal Airport

Town received authorized $200,000 to be used as Town share of a $1,000,000 project.

Town completed Phase 1 - $200,000. The project was completed in January 2011 by Town and

Town completed $500,000. The project was completed in January 2010 in the amount of

Permitting completed by June 2010. Funding for Phase 1

Bass Creek dredging/channels restoration $650,000

Route 139 Corridor Improvement Project

EPA Phase II - SW Compliance Testing and Mapping

South River NPS Implementation Grant
Develop System Designs and Evaluate Alternatives

Identify Impacts to Groundwater and Surface Water

Evaluate need for sewer in neighborhoods served by septic systems

The DPW is under contract with consultant to do the following:

- Sewer Needs Assessment Keep Park and Black Mountain Area
- Assessment of Natural Environment
- Assessment of Man-Made Environment
- Assessment of Stormwater Infrastructure
- Assessment of Drinking Water Infrastructure
- Assessment of Wastewater Infrastructure
- Review of Existing Reports

The DPW hired a consultant to do the following:

- Reduced waste, more trucks will be utilized in 2012.
- Reduced fuel costs, the amount of sand used was

Several trucks were outfitted with hydraulic applicators to make

Reduction of sand in Sand-Salt Mixture to Tread Roads