

Municipality/Organization: Town of Sudbury MA

EPA NPDES Permit Number: MAR04-1224

MassDEP Transmittal Number: W-

Annual Report Number

& Reporting Period: April 1, 2009 – March 31, 2010

**NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2010)**

Part I. General Information

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Certification:

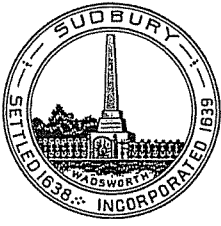
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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: Maureen G. Valente

Title: Town Manager

Date: May 3, 2010



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May 1, 2010

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Re: NPDES DEP & EPA Permit #MAR041224
Year 7 Report

Dear DEP and EPA:

In accordance with our 2003 NPDES permit, please accept this document as our seventh annual report required under our MS4 Phase II Storm Water Permit covering 2009-2010. The Town of Sudbury continues our comprehensive efforts to protect our water quality through appropriate use of storm water best management practices (BMPs), controlling erosion, public education, enhanced illicit discharge detection and elimination, water quality monitoring of stormwater discharges; encouragement of low impact development; and green infrastructure techniques.

Assessment of Compliance with Permit

Sudbury continues to make significant, regular progress in continued compliance with the requirements of our 2003 permit. Most notable accomplishments over the past 12 months were the passage of a Stormwater Management Bylaw (SWMB) at 2009 Town Meeting and the passage of an Illicit Discharge Detection and Elimination (IDDE) Bylaw at the 2010 Town Meeting. Both of these new bylaws passed overwhelmingly at the Town Meetings due in large part to the public education campaign preceding the votes.

Appropriateness of Selected BMP's

Over the past year, Sudbury's 2009 Stormwater Management Bylaw and regulations have been in effect. The SWMB is a two-tier approach based on scope of work, area disturbed, steepness of grade, and soil type. Thresholds are established which trigger either a General Stormwater Permit or a Stormwater Management Permit with requirements specific to the site conditions. The permit requires best management practices as developed in the Massachusetts Stormwater Handbook. The bylaw authorizes the Town to

enforce the effectiveness of the BMP's on individual sites, fine or take other action necessary for compliance with the bylaw.

PROGRESS TOWARDS ACHIEVING MEASURABLE GOALS

Year 7 Measurable Goals:

Public Education and Outreach:

Sudbury again contracted for Year VI with the SuAsCo Watershed Community Council to provide both the Public Education and Outreach and the Public Involvement and Participation components of the Year 7 permit requirements. The "Think Green" materials were well received by the community. The "self-test" is available and encouraged at all Conservation Commission meetings (applicants waiting for their hearing are kept busy with this test!). Individual postcard reminders of healthy stormwater practices are mailed with every wetland permit. These materials are also available in the Planning Board, Board of Health, Building Department, and at general information centers in the three major Town Office buildings. The "Stormwater Matters" slide presentation is available on the Town website and the video has been played regularly over the local Sudbury Cable Channel.

As a result of this information campaign, several neighborhoods which border ponds have formed neighborhood associations to manage the pond for optimum water quality and educate neighbors about how best to deal with drainage to achieve these goals. The Conservation Commission is helping to facilitate these neighborhood efforts.

Public Participation and Involvement

The Ponds & Waterways Committee (PWC), established in 2005 as an advisory board to review water quality and best management practices for stormwater sustainability has achieved several of its major goals during the past 12 months. A town-wide sub-watershed map was developed by the PWC. This new map divides the Town into nine sub-watersheds. This three-foot by four foot color-coded, laminated map includes a border of photos by Town residents showing unique features within each watershed. Full copies of the maps are on display in Town Office buildings, each of the schools, and on the Town website.

The map engages residents in locating themselves within their watershed and showing residents where their water bodies are located and how they drain. The map is also a tool for use by the Conservation Commission, Planning Board, and Engineering/DPW Departments.

Illicit Discharge Detection and Elimination

Sudbury made significant progress in the past 12 months toward achievement of IDDE goals. An Illicit Discharge Detection and Elimination Bylaw was passed at Town Meeting which allows the Town go beyond identification of illicit discharges with a procedure for tracking and enforcement. IDDE Bylaw Regulations were adopted by the Planning Board and Conservation Commission in September 2009.

Since outfall inspections must be conducted during dry weather when there has been less than 0.10 inches of precipitation within the preceding 48 hours, the outfall testing was been hampered by excessive rain in 2009 and 2010.

Only one additional illicit discharge was detected in the past 12 months. Outfall testing will proceed as weather permits with a goal of 25% of outfalls investigated this year. Priority areas for testing have been identified based on historic, visual, and anecdotal information.

Construction Site and Post-Construction Runoff Control

- The Town's practice of requiring pre-application meetings continues and includes all projects that disturb greater than one acre; new subdivision; commercial or business project requiring Selectmen Site Plan Review; or trigger new or revised storm water design or structures
- Sudbury requires the SWPPP (Storm water Pollution Prevention Plan) to be submitted to the Town for review and approval prior to the start of construction under the Planning Board and Conservation Commission permits. Larger projects are now required to hire an erosion control monitor to ensure the effectiveness the methods of site stabilization. Three recent large projects had an environmental monitor on site weekly and after each rain storm.
- The DPW has a Storm Water Management Maintenance fund to offset the increased street maintenance burden on the DPW. This fund is used to purchase new equipment and roadway repair costs, including storm water upgrades. These funds are used to hire private contractors to repair and clean catch basins with an achieved target of 25% per year minimum.
- The new Stormwater Management Bylaw has now been in effect for approximately 12 months with approximately ten permits issued and three enforcement actions taken. We believe that with the public education programs preceding the Town Meeting vote and the on-going distribution of written material and media coverage, both homeowners and developers are more aware and responsive to the need to manage stormwater locally.
- As a result of the economic downturn's impact on development, many large projects were permitted but never started, or started and left idle for two or three years. Wetlands permits had expired and rather than issuing extension permits, the Conservation Commission is requiring the filing of new Notices of Intent for all expiring projects where construction is now expected to begin in 2010. These projects, with over 158 units of housing planned in total, had the drainage designed prior to the current MS4 permit requirements. New NOIs must incorporate the current stormwater standards within any new plans.

Pollution Prevention/Good Housekeeping

- A total of 500 catch basins (25% of total) were cleaned during 2010. This is an ongoing process and the Town hired a private cleaning service at a cost of over \$15,000 to clean catch basins. We have over 2,000 structures to inspect routinely and clean as needed.
- As mitigation for work within 100' of wetlands, the Conservation Commission continues to require developers to install or upgrade drainage structures in existing roads along the project frontage. Drainage upgrades by private developers or the Town are reviewed under the direction of the DPW Department. Most notable is the upgrading the catch basins as needed along a six-mile length of water main replacement.
- Drainage structure repairs were performed on Fairbank, Maynard, August and Dutton Roads;

- Culvert upgrades were installed on Firecut Lane, Powder Mill Road, and in process on Ronald Road;
- Street sweeping for the year is currently in process and will be completed by the middle of May '10;

The flooding of last summer and more recently have provided an opportunity for the Town to work with homeowners in some of the worst flood-prone areas. Homeowners with older drainage structures on their property that are not within a formal drainage easement are now more willing to grant an easement to allow the Town to work with them to address their flooding issues as these issues also impact public ways.

Activities for Next Reporting Cycle

- Actively seek funding for the purchase of catch basin field sampling kits;
- Continued sampling of catch basins as prioritized with the goal of minimum 25% sampled;
- Continued operation and maintenance of drainage structures in accordance with the database schedule (minimum 500 per year);
- Additional funding sources for the continued success of the Program will be sought (potentially investigate development of a Stormwater Utility);
- Work closely with the Ponds & Waterways Committee to identify areas where joint water quality goals can be achieved;
- The Planning Board will be developing new regulations for the Water Resource Protection District;
- The Conservation Commission will be working on revisions to the Wetlands Administration Bylaw and Regulations to ensure compatibility with the new Stormwater Management Bylaw and Regulations as well as the Illicit Discharge Detection and Elimination Bylaw;
- Restructure the Drainage Tie-In database to reflect the new monitoring and enforcement provisions of the IDDE;
- Continue with the culvert upgrades at stream crossings to meet the DEP Stream Crossing guidelines;
- Continue to keep the issue of stormwater quantity and quality before residents through cable television, websites, and newspapers;
- Work with MassDOT to address causes and corrections for recent Rt. 20 flooding issues;

We once again appreciate this opportunity to provide a status report on Sudbury's progress toward our Storm Water Management Goals.

Sincerely,



Maureen G. Valente
Town Manager

cc: Nancy Bryant, SuAsCo