

Municipality/Organization: Shrewsbury, Massachusetts

EPA NPDES Permit Number: MAR041158

MassDEP Transmittal Number: W-036325

Annual Report Number **Year 14**
& Reporting Period: **April 1, 2016 – March 31, 2017**

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2017)

Part I. General Information

Contact Person: Jeff Howland

Title: Town Engineer

Telephone #: (508) 841-8502

Email: jhowland@shrewsburyma.gov

Mailing Address: Richard D. Carney Municipal Office Building, 100 Maple Avenue,
Shrewsbury, MA 01545

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: Daniel Morgado

Title: Town Manager

Date:

4/20/17

Part II. Self-Assessment

The Town has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions.

Current State of the Phase II Program in Shrewsbury:

The Town in the past has budgeted \$5,000 per year for the Phase II Program. This cost does not include money for catch basin cleaning and street sweeping, which is currently budgeted separately with the Town Highway Department. It also does not include funds used for reviews, inspections, research, and reporting for compliance with the permit conditions. Those funds are part of the Engineering Department budget. Occasionally funds have been made available for the Phase II Program from other sources within town budget areas as well.

Town budgets as a whole have been greatly reduced in recent years, and the stormwater program has suffered due to the lack of available funding. Catch basin cleaning is one example in town. Just prior to the issuance of the Phase II Permit, the Town was cleaning 100% of the catch basins within public roadways annually. With each passing year there has been a steady decrease in the amount of catch basins the Town has been able to maintain. During Year One of the permit, the Town was able to clean 60% of the catch basins. By Year Six the Town cleaned 30% of the catch basins annually, and during Permit Year Eight, the Town was only able to clean 4% of the catch basins. During Year 14 the Town was fortunate to be able to clean approximately 56% of the catch basins in town.

While it's clear that an additional funding source is needed to simply maintain the status quo in town, the Town has also been reviewing the potential fiscal impact of the next Phase II Permit. It is apparent that the projected costs cannot be covered within the existing Town budget, and a new revenue source such as a stormwater utility fee will be needed. The Town is strongly considering creating a stormwater utility. A final course of action will be decided once the new permit is fully understood. In the meantime, the Town continues to be proactive and continues to work with a consulting firm to develop a stormwater utility for the Town, and to also evaluate the future stormwater program and assess annual program costs. We have however conducted cost estimates based upon the new MS4 Permit that was issued on April 4, 2016, and we anticipate the cost of compliance to be at least a few million dollars. During Year 12, Shrewsbury submitted a comment letter to EPA regarding various components of the Draft MS4 Permit, and program costs was a major concern of ours.

In addition to exploring funding sources, the Town is also being proactive by recommending changes to the Stormwater Bylaw that would give Shrewsbury more control over construction activities. A revision to the Bylaw was made this year, and it's anticipated that another revised bylaw will be presented as a warrant article at Annual Town Meeting in the future.

This past year Shrewsbury was pleased to take part again in the Central Massachusetts Regional Stormwater Coalition group. The group now consists of 28 communities in Central Massachusetts that received funding from the Community Innovation Challenge Grant awarded by the Massachusetts Executive Office of Administration and Finance. Shrewsbury is proud to have served on the CMRSWC Steering Committee since the group's inception, and will continue to remain a major contributor to the Coalition's efforts. Shrewsbury and other communities contributed \$4,000 each to cover a funding gap to keep the group viable this year. Attached is a summary of the Coalition's achievements. This year the Coalition adopted bylaws and Shrewsbury has a representative serving as the chair for the Technical Subcommittee.

Shrewsbury is also member of the newly formed Massachusetts Statewide Stormwater Coalition. The goal of the group is to bring the regional coalitions together to work collaboratively and share resources. The group received a \$50,000 grant from the Department of Environmental Protection that allowed the coalition to produce public education tools and provide workshops for municipal officials. Shrewsbury's Town Engineer serves as the chair for the Technical Subcommittee for the statewide coalition.

Shrewsbury was able to use funding earmarked from Governor Baker's Capital Plan for Fiscal Year 2016 in Permit Year 14 to install some rain gardens and a hydrodynamic stormwater separator in the existing drainage system at Dean Park. The park is heavily used for recreational purposes, and this project will help protect the pond that is there and improve water quality.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
01	Pamphlet Mailings	Water & Sewer	# Pamphlets Mailed	One pamphlet mailed to approximately 11,000 subscribers of municipal water/sewer utilities.	Continue mailing pamphlets.
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
04	Water Monitoring & Sampling	Health Dept.	Sample Data	Samples for E. Coli & Total Coliform bacteria were taken on a weekly basis during the bathing season in Lake Quinsigamond	
Revised					
CMRSWC	Training Sessions	Engineering Dept.	# Training Sessions	Shrewsbury attended a training session held in Needham.	
Revised					
CMRSWC	Training Sessions	Engineering Dept.	# Training Sessions	Shrewsbury attended the training workshop and vendor fair held in Millbury.	
Revised					
Revised					
Revised					
Revised					

2a. Additions

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
05	Local Ordinance	Engineering Dept.	Bylaw Adopted	Local Bylaw adopted at Annual Town Meeting in May 2007. Revised at Annual Town Meeting May 2015.	Possible revisions to Bylaw and additional regulations.
Revised					
06	Storm Sewer Map	Engineering Dept.	GIS Map	GIS Map under production to show additional drainage utility components such as catch basins and manholes.	
Revised					
14	Grease Trap Inspection Program	Water & Sewer Dept. & BOH	Grease Traps Inspected	Continued to inspect grease traps. Regulations were revised to include internal grease traps.	
Revised					
Revised					
Revised					
Revised					

3a. Additions

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
05	Local Ordinance	Engineering Dept.	Bylaw Adopted	Local Bylaw adopted at Annual Town Meeting in May 2007. Revised at Annual Town Meeting May 2015.	Possible revisions to Bylaw and additional regulations.
Revised					
08	Mass Stormwater Policy	Engineering Dept.	# Projects Reviewed	4 Projects submitted to the Conservation Commission and/or Planning Board were reviewed.	Continue to review new applications.
Revised					
09	Site Plan Reviews	Engineering Dept.	Bylaw Adopted	Reviewed 5 construction projects with >1 acre disturbance.	Continue to review projects.
Revised					
Revised					
Revised					
Revised					

4a. Additions

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
05	Local Ordinance	Engineering Dept.	Bylaw Adopted	Local Bylaw adopted at Annual Town Meeting in May 2007. Revised at Annual Town Meeting May 2015.	Possible revisions to Bylaw and additional regulations.
Revised					
08	Mass. Stormwater Policy	Engineering Dept.	# Projects Reviewed	4 Projects submitted to the Conservation Commission and/or Planning Board were reviewed.	Continue to review new applications.
Revised					
Revised					
Revised					
Revised					
Revised					

5a. Additions

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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
10	Catch Basin Cleaning	Highway Dept.	Catch Basins Cleaned	A total of 2,830 catch basins were cleaned, approximately 56% of all catch basins.	Continue to clean catch basins.
Revised					
11	Street Sweeping	Highway Dept.	Streets Swept	All Public streets were swept.	Continue to sweep streets.
Revised					
18	Yard Refuse Disposal	Highway and BOH	Collection Days	The Town had 7 curbside collection events of yard refuse for each residence, and offered self-disposal at the maintenance garage facility	Continue to collect yard refuse and compost waste at the Shrewsbury landfill facility.
Revised					
Revised					
Revised					
Revised					

6a. Additions

19	Rain Gardens	Engineering Dept.		The Town installed rain gardens and a stormwater hydrodynamic separator at Dean Park using funding from Governor Baker's Capital Plan for Fiscal Year 2016.	

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
05	Local Ordinance	Engineering Dept.	Bylaw Adopted	Local Bylaw adopted at Annual Town Meeting in May 2007. Revised at Annual Town Meeting May 2015.	Possible revisions to Bylaw and additional regulations.
Revised					
08	Mass Stormwater Policy	Engineering Dept.	# Projects Reviewed	4 Projects submitted to the Conservation Commission and/or Planning Board were reviewed.	Continue to review applications.
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2015 through March 31, 2016)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	
Annual program budget/expenditures **	(\$)	
Total program expenditures since beginning of permit coverage	(\$)	
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	
Stream teams established or supported	(# or y/n)	
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	
▪ community participation **	(# or %)	
▪ material collected **	(tons or gal)	
School curricula implemented	(y/n)	

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	(%)	
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened **	(# or %)	
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	
Illicit discharges identified **	(#)	
Illicit discharges identified (Since beginning of permit coverage)	(#)	
Illicit connections removed **	(#); and (est. gpd)	
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	
% of population on sewer	(%)	

% of population on septic systems	(%)	
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Construction

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

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections (for proper BMP installation & operation) completed **	(# or %)	
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	
Low-impact development (LID) practices permitted and encouraged	(y/n)	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	
Qty of structures cleaned **	(#)	
Qty. of storm drain cleaned **	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	
• Disposal cost**	(\$)	
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	
• Vacuum truck(s) owned/leased	(#)	
• Vacuum trucks specified in contracts	(y/n)	
• % Structures cleaned with clam shells **	(%)	
• % Structures cleaned with vactor **	(%)	

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	
• Disposal cost**	(\$)	
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	
• Vacuum street sweepers owned/leased	(#)	
• Vacuum street sweepers specified in contracts	(y/n)	
• % Roads swept with rotary brush sweepers **	%	
• % Roads swept with vacuum sweepers **	%	

Reduction (since beginning of permit coverage) in application on public land of:
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("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	
Integrated Pest Management (IPM) Practices Implemented	(y/n)	

	(Preferred Units)	Response
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	
Pre-wetting techniques utilized **	(y/n or %)	
Manual control spreaders used **	(y/n or %)	
Zero-velocity spreaders used **	(y/n or %)	
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/l _n mi. or %)	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/l _n mi. or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	
Storage shed(s) in design or under construction	(y/n or #)	
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	
Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	

Central Massachusetts Regional Stormwater Coalition
2003-MS4 Permit
Coalition Activities in Year 14 (April 1, 2016-March 31, 2017)

Introduction

The Central Massachusetts Regional Stormwater Coalition (CMRSWC) is an MS4 resource for all member communities. In 2017, total membership reached 31 towns. In December 2016, CMRSWC created four standing sub-committees to allow members to focus efforts on specific issues important to the Coalition. These sub-committees are:

- Education Sub-Committee: responsible for developing and promoting outreach and educational materials for audiences targeted in the 2016-MS4 permit. The committee is the primary liaison to the WPI Project Centers and other university partnerships.
- Program Sub-Committee: responsible for planning and scheduling Annual Meeting, Steering Committee Meetings, educational workshops, and other forums for discussion of MS4 topics.
- Technical Sub-Committee: responsible for managing Coalition's website and shared equipment resources; advising members on relevant technical issues including GIS system maintenance and upgrades.
- Legislative Sub-Committee: serves as the liaison to the Massachusetts Statewide Stormwater Collaborative; responsible for tracking MS4 related legislation and regulations and keeping the legislature and regulatory agencies informed of the concerns of member communities.

The CMRSWC Steering Committee held four meetings during this 12 month reporting cycle. The CMRSWC Annual Meeting was held on September 20, 2016 in Holden. CMRSWC's Needham MS4 Technical Training Workshop and Stormwater Video were featured at the Annual Meeting of the Statewide Collaborative on September 27, 2016 at the Massachusetts Department of Environmental Protection central region office in Worcester. Members of CMRSWC attended and actively participated in the Massachusetts Statewide Stormwater Collaborative meetings.

MS4 Workshops and Technical Training (Minimum Control Measures 3, 4, 5, and 6)

Municipal Stormwater Technical Assistant Project

The CMRSWC was awarded a \$50,000 Municipal Stormwater Technical Assistance Contract Grant from the Massachusetts Department of Environmental Protection to provide technical assistance support and materials designed to help regulated communities in Massachusetts begin to cost-effectively comply with the requirements of the 2016 MS4 Permit. The grant funded the Needham MS4 training workshop, educational and training videos, and stormwater templates.

Needham Workshop

On June 29, 2016, CMRSWC and the Fuss & O'Neill project team held an MS4 training workshop at the Needham Public Services Administration Building. This site was selected because it contains several features that provided participants hands-on training and exposure to actual operations and conditions affected by the new MS4 permit requirements. These features include new SWPPP regulated activities, outfalls discharging to an on-site stream, vegetated swales, infiltration basins, catchbasin and manholes, gravel surface parking area, and more.

The program targeted new or inexperienced public works professionals, stormwater coordinators, and other municipal staff responsible for their community's NPDES Phase II Stormwater Permit Minimum Control Measures 3, 4, 5, and 6. The program included classroom presentation, site visits, and hands-on experience on the following MS4 topics:

- Outfall inspections and water quality sampling – safety, tools, protocols, hits
- Mapping stormwater system attributes – paper versus GIS
- Stormwater BMPs and LID – construction, operations, and maintenance
- SWPPPs – site characteristics

Millbury Workshop

CMRSWC held a second workshop for Coalition members on October 28, 2016 at the Millbury Public Works Facility. The program targeted public works professionals, stormwater coordinators, and other municipal staff responsible for the NPDES Phase II Stormwater Permit Minimum Control Measures 3, 4, 5, and 6.

The MS4 Training Workshop emphasized hands-on training on the following topics:

- IDDE – review of CMRSWC IDDE template and inspection form
- BMPs and LID–BMP retrofits; BMP & LID construction, O&M
- SWPPPs – using CMRSWC template to develop a facility-specific SWPPP

The Workshop included a Vendor Fair with products and services that support MS4 compliance. There were scheduled presentations by Environmental K9 Services, People GIS, and Civil View drone services.

Videos and Templates (Minimum Control Measures 1, 3, 4, 5, 6)

In addition to the Needham training workshop, the Municipal Stormwater Technical Assistance Contract Grant funded the following stormwater videos, new templates, updates of existing CMRSWC templates, and referenced additional online resources associated with various stormwater management topics to assist regulated communities.

Long-Format Stormwater Videos

- MS4 workshop from June 29, 2016
- Questions, concerns, and contributions from workshop participants
- Stormwater Utility options presented by municipal finance expert Mark Abrahams
- The success of Franklin, MA in considering stormwater BMPs and LID in their public works projects

Short-Format Classroom Videos

- Outfall inspections and water quality sampling – safety, tools, protocols, hits
- Mapping stormwater system attributes – paper versus GIS
- BMPs – construction, operations, and maintenance
- SWPPPs – site characteristics

Short-Format Videos Targeting Information on Specific MS4 Requirements

- Exterior salt and sand storage
- Proprietary systems for stormwater management
- Vegetated swales
- Outfall screening
- Tablet tools
- Stormwater infiltration basins
- Introduction to water quality testing procedures and tools
- Public works facility SWPPPs

Underscoring the value of the videos and templates developed by CMRSWC, in advance of the Millbury Technical Training Workshop participants were asked to review the MS4 training videos on CMRSWC's website. These videos provided background on the permit requirements, which facilitated the field training component of this workshop. CMRSWC MS4 templates were used and referenced for the SWPPP and IDDE program elements.

Worcester Polytech Institute Worcester Community Project Center (Minimum Control Measures 1 and 2)

From September 27, 2016 Statewide Stormwater Collaborative Minutes: Andrea Briggs of DEP provided a review of WPI Student projects, and an overview of the program. Andrea facilitates the program. In 2012 WPI and DEP approached the CMRSWC to pair students with communities who need assistance. Since that time WPI has created a new center called the Water Research Outreach Center (WROC), which is a Worcester Project Center. They also have a Boston Project Center. There are three ways through WPI that students can help cities and towns. WPI project timeline is structured in 4 quarters. A, B, C and D term. During the A term they prepare to work (e.g. learning the permit); during the B term the students are available full time to the communities. This past summer the student group looked at cost estimates for municipalities and created a permit summary. Andrea showed 5-minute educational video on stormwater and the connection to local resources, which is posted on the town of Holden webpage. WPI students in attendance introduced themselves and the projects they have been working on. Project #1 involves developing a methodology to help communities estimate cost and hopefully to compare to EPA's cost estimators. Project #2 involves developing an education and outreach campaign to educate municipalities and looking to conduct education and outreach to communities. Andrea described how the partnership between the state and WPI has been very beneficial. Holden has had at least 3 projects now.

WPI students developed a stormwater toolkit featuring an activity book and stickers for children. The activity book includes opportunities for parents to participate and ask questions. The students participated in a craft fair at Union Station in Worcester where they surveyed attendees on logo schemes for their stormwater project branding.

Member Needs Survey

In September 2016, CMRSWC developed a technical needs survey that measured the concerns of member communities with respect to the issuance of the 2016-MS4 General Permit for Stormwater Discharges. The survey also asked members to rank certain programs and tasks that CMRSWC could support to assist members in complying with the MS4 Permit.

Coalition members ranked their needs as follows:

1. Provide Comprehensive Training Programs
2. Continue Standardization of Templates and Forms
3. Provide Web-Based Tools That Support GIS Mapping

Coalition members ranked their compliance concerns as follows:

1. Funding
2. Preparation of NOI and SWMP
3. Designing and Constructing BMP Retrofits
4. Performing Outfall Inspections
5. Performing Outfall Inventory Ranking
6. Developing a Written IDDE Program
7. Meeting TMDL Requirements
8. Developing Written Catchment Investigation Procedures
9. Identifying and Removing Illicit/Illegal Discharges
10. Developing and Maintaining SWPPPs

Conclusion

More than 40 representatives, including CMRSWC members, from MS4 communities participated in the MS4 Workshop in Needham. More than 35 CMRSWC members participated in the Millbury Workshop. The production of 16 videos targeting specific MS4 topics and training opportunities expands the learning opportunities to anyone with access to the web.

The enhanced MS4 templates and information sources on developing IDDE plans, SWPPPs, bylaw review, and LID, which are accessible on the Coalition's website, provide relevant tools to communities implementing their MS4 program with local staff and resources. They are just as relevant to MS4 communities choosing to partner with associations or consultants in the implementation of their MS4 requirements.

CMRSWC members receive ongoing value from the Coalition's workshops, field training, video library, and templates. CMRSWC membership provides consistency to an MS4 constituency subject to routine staff changes, questionable access to funding, and ongoing regulatory demands.



TOWN OF SHREWSBURY

Richard D. Carney Municipal Office Building
100 Maple Avenue
Shrewsbury, Massachusetts 01545-5398

MEMORANDUM

Date: April 27, 2017

To: Brad Stone, Town Conservation

From: John Knipe, Jr., Superintendent of Streets

Re: Storm Water Permit

From April 27, 2016 through April 26, 2017 the following is an estimate of man-hours related to storm water management activities:

Street Sweeping in the town was 100% completed
Catch Basin Cleaning drainage outlets- 450 hours

Total of 2,830 catch basins cleaned or 56% of total catch basins
Detention Basin Activities- 356 hours

During this period all streets were swept and we cleaned approximately 56% of the catch basins and waterway outlets in town.

With current staffing levels and limited funding we found it difficult to clean all the catch basins.

We awarded a 3 yr contract to clean est. 2,000 catch basins at an estimated \$32,260 for fy 2017 (year 3). Work to be completed this fiscal year.

cc: Daniel J. Morgado, Town Manager

Water Conservation Kits For Sale

- **Where:** Shrewsbury Water Dept. Office, Shrewsbury Town Hall
- **Hours:** 8 am - 4:30 pm Monday through Friday
- **Cost:** \$3 or \$6 per kit.

Indoor (\$6 each) and outdoor (\$3 each) water conservation kits are now on sale at the Water Department at the Shrewsbury Town Hall.

Kits for Shrewsbury Residents only.



GARDEN HOSE TIMERS are available for purchase for \$5.00.



Conserve water, time and energy with this easy to set Garden Hose Timer. Automatic yard watering without the waste is made easier. Set the timer to water early in the morning during times of least evaporation and when it doesn't interfere with your schedule. By setting the timer, you won't over water the yard. The timer will automatically shut off when it has completed the water cycle. Ideal for watering the lawn, garden and micro-watering hanging baskets and potted plants. It is made of durable plastic hosing and a brass connector.



2016 WATER USE RESTRICTION

1. Pursuant to Article 18, Section 4 of the General By-Laws of the Town of Shrewsbury the following water conservation measures are hereby implemented:

Outdoor Watering Hours

Nonessential outdoor watering hours are restricted to before 9:00 AM and after 5:00 PM.

Outdoor Use of Water Restrictions

Based upon the street address number nonessential outdoor water use is allowed:

Even numbered addresses may engage in nonessential outdoor water use on Wednesdays and Saturdays only.

Odd numbered addresses may engage in nonessential outdoor water use on Thursdays and Sundays only.

There is no nonessential outdoor use of water on Monday, Tuesday and Friday

Nonessential outdoor water uses that are subject to mandatory restrictions include:

- Irrigation of lawns via sprinklers or automatic irrigation systems
- Washing of vehicles, except in a commercial car wash or as necessary for operator safety
- Washing of exterior building surfaces, parking lots, driveways or sidewalks, except as necessary to apply surface treatments such as paint, preservatives, stucco, pavement or cement

The following uses may be allowed when these mandatory restrictions are in place before 9:00 AM and after 5:00 PM:

- Irrigation to establish a new lawn and new plantings during the months of May and September
- Irrigation of public parks and recreational fields by means of automatic sprinklers outside the hours
- Irrigation of lawns, gardens, flowers and ornamental plants by means of a hand-held hose

2. The Board of Selectmen calls upon all water users to conserve water whenever possible and to observe the above listed water restriction.
3. The Board of Selectmen determines that for the period of time that this State of a Water Supply Conservation is in effect, that enforcement of the provisions of Article 18 of the General By-Laws of the Town of Shrewsbury shall be pursuant to General Laws Chapter 40, Section 21D which provides for non-criminal disposition.
4. These restrictions are effective May 1, 2016, and will end on September 30, 2016.
5. Under Article 18 General By-Laws, Town of Shrewsbury, Section 4, Water Use Restrictions, the following fine structure is in place for violations for the water use restrictions.
 - 1) First Offense in Calendar Year - Warning
 - 2) Second Offense in Calendar Year - \$50.00
 - 3) Third Offense in Calendar Year - \$100.00
 - 4) Fourth and subsequent offenses in Calendar Year - \$200.00 and turn off of water service
Reconnection Fee - \$50.00
6. Many items can be found to minimize outdoor water usage and maximize water efficiency around your home at the following EPA website: www.epa.gov/watersense

Where Does Your Household Rank?

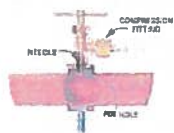
Check your current water bill. If your family's quarterly water use is higher than the target numbers listed below, your household needs to make a greater effort to conserve water.

Target Quarterly Residential Water Use								
No. of People in Household	1	2	3	4	5	6	7	8
Target Quarterly Water Use (in gallons)	5,931	11,862	17,793	23,724	29,655	35,586	41,517	47,448

If your family's quarterly water usage is equal to or lower than the target numbers in the chart above, keep up the good work! You are doing your part to conserve water at home, and your family meets or beats the State's 65 gallons per person per day water use goal.

100 Maple Ave - Shrewsbury, MA 01545 - 508-841-8506 - 8 am to 4:30 pm M-F - Please Recycle This Newsletter

SERVICE LINE INSURANCE



Periodically our customers get calls from companies offering water service line insurance. We would like our customers to know that the Shrewsbury Water Department does not endorse any service line insurance product or company, and we recommend exercising due diligence before making a decision to purchase insurance. Before considering purchasing service line insurance you may want to check with your home insurance company as some policies do offer some coverage for service line repairs or replacement.



Tips for Saving Water

Here is some water saving tips to conserve water.

Outdoor

Pay attention to your garden hose. Left unattended, a garden hose can pour out 8 to 12 gallons each minute.

Check all hoses, connectors and spigots regularly to make sure they are in good working order. Use hose washers between spigots and water hoses to eliminate any leaks.

Indoor

When washing your hands, don't let the water run while you lather.

When shaving, rinse your razor in the sink with a few inches of warm water. This will rinse your razor just as well as running water with far less waste of water.



SHREWSBURY 2016 RAIN BARREL EVENT

Save Money, Collect Rain Water, Conserve Energy

We are offering a Rain Barrel Program to help residents conserve water and save money. *Here's How Rain Barrels Help You Save Money and Conserve Water*



- Rain barrels collect and store rainwater for outdoor water use which means *you'll save money on your water bill.*
- In New England, rain barrels can save up to 1700 gallons of water during extended summer months.
- Rain barrels reduce pollutants from entering into the water supplies by reducing runoff – which helps towns manage the water supplies and keep costs down.
- Rain barrels are low cost and easy to install.

Rain Barrel Facts

The rain barrel is repurposed from a 60 gallon shipping drum that is 39" tall by 24" wide, 20 lbs. empty. The shipping drum is made from 3/16" polyethylene which is UV protected and BPA free. The barrel comes complete with overflow fittings, drain plug, screw on cover, and a threaded spigot with a choice of two ports to use with either a watering can or a garden hose. The rain barrel arrives with simple instructions for fast and easy installation.

Available Colors: Forest Green, Earth Brown or Nantucket Gray

Special Price for Town Residents: \$79 versus the retail price of \$119

How to Get Your Rain Barrel

To take advantage of this community program discount please visit:

<https://www.greatamericanrainbarrel.com/c-111-shrewsbury.aspx>
or call (800)251-2352.

Pick UP Saturday May 28th 9:00am-11:00am

Shrewsbury Town Hall Parking Lot 100 Maple Ave Shrewsbury, MA 01545

The Deadline for purchase: Orders must be received by May 21st, 5:00pm

WaterSense Toilet Rebate

The Shrewsbury Water Conservation Project is offering toilet rebate for residents. Residents approved for the **\$35 rebate** will receive a Town-issued check to be mailed to the billing address listed for their water account (Limit 1 toilet rebate per residential water account).

Rebate is good for toilets carrying the "WaterSense" label issued by the Environmental Protection Agency and toilet must have been installed by a licensed plumber.

Rebate applications must be post-marked within 90 days of purchase and received by **June 25, 2016.**

Rebate forms can be downloaded at the Town website under Water Department. Once completed, mail to: Shrewsbury Water Department, Attention: Rebates, 100 Maple Avenue, Shrewsbury, MA. 01545.

Applicant is responsible for disposal of old toilets using a bulk waste sticker from the PAYT program. Visit <http://www.shrewsbury-ma.gov/PAYT> for more information.

HOW TO GET YOUR REBATE

1. Return the following to the Shrewsbury Water Department:
 - a. Completed Rebate Form
 - b. Copy of Proof of Purchase
 - c. Copy of Plumbing permit
 - d. Verification of "WaterSense" label
2. Request must be received by June 25, 2016.
3. Allow 6-8 weeks for processing.



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