

Municipality/Organization: Southbridge, Massachusetts

EPA NPDES Permit Number: MAR041161

MaDEP Transmittal Number: W-041270

Annual Report Number

& Reporting Period: No.12: May 1, 2014-April 30, 2015

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Heather A. Blakeley

Title: Acting Director

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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: Kevin Paicos

Title: Interim Town Manager

Date: 4/30/15

Part II. Self-Assessment

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

Notable Accomplishments/Improvements in Permit Year 12:

- Central Massachusetts Regional Stormwater Coalition (CMRSWC) membership:
 - The Town continued to be a member of and utilize the CMRSWC as a resource throughout the permit term.
 - Continued to move towards full electronic inspection tracking with tablet and other resources provided by CMRSWC. The goal is to use tablets for inspections, mapping and other stormwater or water quality related data collection.
 - In 2014, the Town began using a tablet to conduct catch basin and outfall inspections.
- A Comprehensive Cost Analysis of the 2014 Massachusetts MS4 Permit was conducted by students and faculty at the Worcester Polytechnic Institute with the assistance of MassDEP and the Worcester Community Project Center. Before conducting the cost analysis, the Institute performed stormwater outfall water quality sampling at 10 locations using CMRSWC kits during dry and wet weather conditions and also tracked and saved the locations in GIS. These results, the cost analysis results and recommendations were provided to Southbridge to assist with future monitoring in Town.
- Erosion Control Project: The rail trail path and some parts of river bank along the Quinbog River are eroding from fallen trees. Town is working with MassDOT to design a solution to stop erosion and restore the area. This is still in the design stage. The bridge footing was reinforced on damaged areas of the Durfee Street Bridge to prevent failure. A failing culvert due to erosion on Eastfield Road was replaced with a reinforced culvert.
- Local church group is now doing cleanups around town and DPW conducts waste pickup.
- I/I study and ongoing efforts to reduce I/I: May 20, 2014: 70 foot pipe replacement completed on Kim drive.
- The Town invested in improvements related to its public water supply reservoirs, specifically a new toe drain that is currently under construction at Dam #5. The project also includes a wetland restoration project.
- Numerous stormwater improvements were completed this permit year including:
 - Added 25 deep sumps to replace existing catch basins.
 - Rebuilt/ repaired 59 catch basins
 - Parking and stormwater improvements were completed at the Henry Street fields and included a bioretention cell and bioswales.
- Two culvert crossings were designed during the permit year:
 - Dresser Street - currently has a direct discharge into the water body and will now discharge through a catch basin with a deep sump. It is expected to be constructed in summer 2015.
 - Old Dudley Road - a failed box culvert will be replaced in summer 2015.

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 12	Planned Activities – Permit Year 13
1A	Public Outreach	Public Works Dept.	Reach 5 th grade	No activities were performed with students during the permit term.	Make presentation on water quality to selected students. Consider additional opportunities to educate the public about DPW operations.
Revised	<i>Stormwater Education for Students</i>				
1B	Public Outreach	Water Dept.	Reach all water accounts (4,000 households)	Mailed annual Water Quality Report to residents which details drinking water quality for the Town.	Continue Annual Water Quality Report mailing.
Revised					

1a. 7 Additional Items

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Permit Year 13
1C	Stormwater Press Release	DPW / Board of Health	Annual stormwater newspaper article	Advertised the four Household Hazardous Waste (HHW) disposal events in local newspaper and at municipal buildings. Events were held on June 28, 2014; September 27, 2014; December 6, 2014 and March 28, 2015	Advertise the four Household Hazardous Waste (HHW) disposal events in local newspaper and at municipal buildings. Post street sweeping on Town web-site.
Revised				A leaf removal program is held during the fall months. Leaves are taken by the Town and composted. This was posted on the Town website. Posted street sweeping on the Town website.	

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Permit Year 13
1D	Distribute educational flyers and advertise Household Hazardous Waste Event	Board of Health	Distribution of Flyers	Household Hazardous Waste flyer advertisements were made available at municipal buildings. The events were advertised in the local newspaper in lieu of mailing the flyers with water bills.	Advertise the four Household Hazardous Waste (HHW) disposal events in local newspaper and at municipal buildings.
Revised					
1E	Develop Stormwater Section of Town Website	DPW and Town Website Manager	Measure number of hits annually.	Posted and updated the street sweeping schedule weekly on the Town web-site and the local cable network.	Continue to post and update the street sweeping schedule weekly on the Town web-site and the local cable network.
Revised				A GIS stormwater data layer is now located on the Town website for public access.	Continue to update GIS information on the Town website.
1F	Broadcast Town Council Meetings to update progress of the Phase II Program	DPW and Channel 12	Broadcast of Town Council meetings	Televised Town Council meetings on local cable channel.	Continue to broadcast any stormwater updates at the Council meeting on local cable.
Revised				The stormwater program and the new permit requirements were discussed at 3 meetings: -May 12, 2014: WWTP Tour -May 22, 2014: Water and Sewer Hearing -June 24, 2014: WWTP Tour	
1G	Assist with “Replanting Our Roots” initiative in tornado damaged areas.	DPW, Mass. Dept. of Cons. and Rec. and volunteers	Planting of 77 trees in tornado deforested area.	Volunteers and govt. agencies worked together to plant trees in areas prone to flooding and erosion due to the deforestation by the 6/1/11 tornado. 3 Phases were planned: tornado damage; downtown; and public lands. Phases 1, 2 and 3 have been completed.	No further activities are planned.
Revised					
1H	Obtained a \$5,000 grant and removed tornado damaged trees from flood prone areas.	DPW	Removal of many trees from flood prone areas.	This was completed during the previous permit year.	No further activities are planned.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Permit Year 13
1I	Created and distributed Stormwater pamphlets.	DPW	Posted in municipal offices and handed out at 6/23/11 Meet and Greet.	Handouts were posted at Town Hall and DPW.	Continue to post at public places and identify opportunities to hand out pamphlets.
Revised					

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Permit Year 13
2A	Monitor Streams	Conservation Commission	Monitor 1 stream annually	Each year, a group of volunteers working with “The Last Green Valley” tests 8 locations in the Town including the following water bodies; Quinebaug River, Dean Brook, Cohassee Brook, Lebanon Brook, and McKinstry Brook. Waters are tested for dissolved oxygen, turbidity, conductivity, ph and temperature. Color, odor, plants, animals, and trash are recorded. Final results are organized into a spreadsheet at the end of the year.	Continue stream monitoring program.
Revised				As discussed previously, the WPI project was completed by WPI students and faculty. Information was gathered on 10 outfalls and collected data during both wet and dry weather conditions.	http://thelastgreenvalley.org/learn-protect/watershed-protection/water-quality-monitoring/

2a. 4 Additional Items

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Permit Year 13
2B	Neighborhood Cleanup	DPW, Building, Fire, Police, Recycling Coordinator, church groups, Neighborhood groups	Weekly neighborhood walkthroughs during fair weather months	Neighborhood walks were not performed during the permit year.	Seek to perform neighborhood walks in the future and target stormwater impacts. Evaluate methods for tracking neighborhood participation.
Revised					
2C	Community Meet and Greet	DPW	DPW stormwater information	Town created a new Master Plan that was accepted but has not been implemented yet. Implementation meetings, however, are ongoing to make progress on plan recommendations.	Continue to attend similar events and offer water quality information to residents.
Revised				A “Touch-A-Truck” event was held on September 13, 2014 at the Southbridge Airport for the Cops N Kids Runway Car Show. Two DPW volunteers took a catch basin cleaning truck to students to explain what it does and why this truck is so important.	Continue “Touch-A-Truck” event and incorporate stormwater topics.
2D	Assist with “Replanting Our Roots” initiative in tornado damaged areas.	DPW, Mass. Dept. of Cons. and Rec. and volunteers	Planting of 77 trees in tornado deforested area.	This task was completed during the previous permit year.	No further action needed at this time.
Revised					
2E	Assist with trash removal from annual Earth Day Cleanup.	DPW	Clean up debris and advertize in newspaper.	Volunteers will be picking up trash during the May 16, 2015 Earth Day Cleanup event.	Continue to assist volunteers by picking up the trash from the annual Earth Day Cleanup event. Continue tracking public participation at event.
Revised					

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Permit Year 13
3A	Map Storm Sewer System	DPW	Map Outfalls	100% of all outfalls and the stormwater system were mapped in permit year 11. Map is still available on the Town's web-site. The Town budgeted for new GIS software to allow updates and additions as new data is collected.	Update and maintain the map as new data is collected.
Revised					
3B	Amend Drainage ByLaw	Town Council	Modify Existing Bylaw	No significant activity occurred, but the Town began reviewing existing bylaws from other Towns in the CMRSWC.	Review and modify the existing "draft" bylaw and move it forward to Town Council by Summer 2015.
Revised					
3C	Inspect Outfalls	Health Agent	Identify Illicit Discharges	As discussed previously, the WPI project was completed this year where students gathered information on 10 outfalls and collected data during both wet and dry weather conditions. The Town is in the process of reviewing this data to incorporate any follow up actions into the stormwater program. Two illicit discharges were identified and corrected in Year 12: -April 18, 2015: Durfee Street cap blew off of a sewer cleanout manhole. 25 gallons of sanitary wastewater overflowed onto roadway & was cleaned up with vacuum truck. New cap installed, back on-line. -April 19, 2015: Sanitary sewer manhole overflow at intersection of Wall & Langlais Street. Main sewer line was blocked at old DPW building access manhole at Mill Street area. Line cleaned & entire area flushed. Est. 2,500 gallons to storm drain at intersection. Cleaned wet street area and storm drain with jet/ vacuum truck to remove wastewater.	Continue to inspect selected major outfalls for potential illicit discharges and respond to/clean up incidents when illicit discharges occur.
Revised					

3a. 3 Additional Items

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Permit Year 13
3D	Household Hazardous Waste Collection Events	Board of health, Recycling Coordinator, Casella Waste Systems	Annual Household Hazardous Waste Day	Southbridge hosts four Household Hazardous Waste (HHW) disposal events. Events were held on June 28, 2014; September 27, 2014; December 6, 2014 and March 28, 2015. Flyers were made available at municipal buildings. Volunteers tracked around 800 cars containing mainly paints, chemicals, and CRTs.	Continue to advertize and host HHW collection events four times per year. Continue to track results and participation.
Revised					
3E	Establish Illicit Discharge Hotline	BOH / DPW	Number of phone calls	The Stormwater hotline is identified on the website. Calls and complaints were handled by the BOH and DPW. Residents can fill out a complaint form to be recorded by Town personnel. Stormwater complaints are forwarded to the DPW. The DPW documents the complaints and follows up on corrective actions. BOH enforces action as necessary. No complaints were received this permit year.	DPW will continue to handle illicit discharge related phone calls. The DPW phone number will continue to be advertised through existing media. Track calls and record actions taken annually.
Revised					
3F	A sewer lateral off of Elm St. was cracked and overflowing into a catch basin causing pollution in the downstream Cohasse Brook.	BOH	The pipe repaired and the overflow stopped.	As discussed in the Year 9 report, the DPW hired a contractor to repair the sewer break and charged the work back to the homeowners who failed to act.	Continue to address sewer main issues as they become known.
Revised					

4. Construction Site Storm water Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Permit Year 13
4A	Control Erosion & Sedimentation	Town Council	Enact New Bylaw	Continued erosion control enforcement as needed. The Town began reviewing existing bylaws from other Towns in the CMRSWC.	Review draft bylaw, revise as necessary and move it forward to Town Council by summer 2015.
Revised				Rail trail path and some parts of river bank along Quinbog river are eroding from fallen trees. Town is working with MassDOP to design a solution to stop erosion. This is still in the design stage. Footing was reinforced on damaged areas of Durfee Street Bridge. A failing culvert due to erosion on Eastfield Road was replaced with a reinforced culvert.	

4a. 3 Additional Items

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Permit Year 13
4B	Establish a procedure for the receipt of information submitted by the public.	DPW	Number of phone calls	Calls and complaints were handled by the DPW. Residents can fill out a complaint form to be recorded by Town administrative personnel. Stormwater complaints are forwarded to the DPW. The DPW documents the complaints and follows up on corrective actions.	DPW will continue to handle stormwater related phone calls. The DPW phone number will continue to be advertised through existing media. Track calls and record actions taken annually.
Revised				Complaints identified 30 catch basins in need of repair. All complaints were addressed and put on the list of repairs for Spring/Summer 2015. No calls related to construction sites were received this permit year.	

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Permit Year 13
4C	Construction Site Runoff Site Plan	Conservation Commission	Erosion control site plan	Town regulations required erosion and sediment control plans for all projects requiring a Notice of Intent (NOI) to be submitted to the Conservation Commission for review prior to construction. The Conservation Commission also reviewed site calculations to check pre- and post- development stormwater runoff for compliance with the Massachusetts Stormwater Management Policy.	Continue to require Conservation Commission review of proposed developments.
Revised					
4D	Conduct Inspections for erosion Control	DPW	Inspections performed and documented	The DPW performed inspections of all construction sites to ensure erosion controls were working properly. No major construction projects were conducted during the permit year. Construction of a Cumberland Farms began in April 2015 and the Town began inspecting the site.	Continue the current inspection program. Continue to document major erosion and sediment control issues which require enforcement.
Revised					

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 12	Planned Activities – Permit Year 13
5A	Regulate Post Construction runoff	Town Council	Amend Drainage Control Bylaw	Continued construction site erosion control enforcement as needed. The Town began reviewing existing bylaws from other Towns in the CMRSWC.	Review draft bylaw, revise as necessary and move it forward to Town Council by Summer 2015.
Revised					

5a. 2 Additional Items

5B	Post-Construction Site Inspection	DPW	Inspections performed	Before accepting maintenance responsibility for new construction sites, the DPW performs a full inspection of public drainage systems.	Continue current inspection program. Continue to document the acceptance of new public drainage systems and incorporate the system into the Town drainage system map.
Revised				In Permit Year 11, the DPW compiled a list of required repairs before accepting responsibility for the drainage infrastructure. This effort is ongoing and the systems were not accepted in Permit Year 12. Tall Pines is a subdivision project that was completed in Permit Year 12 and will be accepted in Permit Year 13.	
5C	As-Built Plans	DPW	Plans documenting construction	DPW requires as-built plans to be submitted upon completion of construction.	Continue to require and receive as-built plans for all projects.
Revised					

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 12	Planned Activities – Permit Year 13
6A	Street Sweeping	DPW	Sweep Streets Annually	All streets swept annually between April and June 2014 and 1,373.78 tons were collected and disposed at the Southbridge landfill.	Continue to sweep all streets annually and post on website and local cable access.
Revised				Sweeping schedules were updated weekly and posted on the website and on the local access channel. Priority areas are identified and repeated as needed though out the year.	
6B	Catch Basin Cleaning	DPW	Clean critical basins annually	The DPW cleaned all catch basins in the Town. 473.10 tons of catch basin debris were removed and disposed at the Southbridge landfill.	Continue annual catch basin cleaning program. Critical basins cleaned first and more than once as needed.
Revised				As discussed previously, the Town began using a tablet and standardized form to track catch basin cleaning activities.	Continue use of a tablet to track data from catch basin inspections.

6a. 7 Additional Items

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Permit Year 13
6C	Storm Drain System Inspection and Maintenance	DPW	Inspect and maintain storm drain system at least annually	Outfalls were inspected as outlined in BMP 3C. Catch basins were inspected for issues when cleaned by DPW staff.	Continue outfall and catch basin inspections and maintenance. Inspect all catch basins for structural deficiencies when cleaned by DPW staff.
Revised				As discussed under BMP 4B, complaints from the public identified 30 catch basins in need of repair. Approximately 59 structures were rebuilt last year.	Begin using a tablet to track work required and completed.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Permit Year 13
6D	Ensure Covered Storage for Winter Salt	DPW	All salt is covered.	All salt for winter storm operations was covered in the salt shed at the DPW building.	Continue to cover salt materials and track winter salting quantities.
Revised					
6E	Conduct Town Employee Stormwater Training	DPW	Develop pollution prevention workshop for municipal employees	Two members of Town DPW attended the APWA Western Snow and Ice Conference and National Snow Roadeo to learn about winter road maintenance activities on September 24-26, 2014 in Loveland, CO. The DPW director also attended a local snow conference held by the Town of Holland to discuss new salt practices and technology in December 2014.	Conduct training for DPW employees using resources from stormwater consortium.
Revised				Pesticide application training is also completed for the licensed Town applicators. A pesticide application plan and Vegetation Management Plan are in place and reviewed each year to update the Yearly Operation Plan. Storm drain system maintenance practices were also discussed with staff as part of routine cleaning activities.	
6F	Perform Neighborhood Roadway Trash Cleanups	DPW, Town Manager, Police, BOH	Amount of trash collected after weekly neighborhood walkthroughs	Neighborhood walks were not performed during the permit year. The Earth Day cleanup event is scheduled for May 16, 2015. Residents can contact the BOH to set up pickup times for bulk items at their homes. The items are disposed of at the landfill. Haz-Waste specialists are used as needed. DPW assists with the cleaning of illegal dumping that occurs throughout the year.	Seek to conduct neighborhood roadway cleanups in the future and Earth Day cleanup.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Permit Year 13
6G	Evaluate municipal facilities	DPW, Police, Fire	All municipal facilities evaluated and BMP's implemented within 3 years.	DPW and Police properly manage vehicle wash water. DPW has and utilizes a new wash bay facility. The Police wash their vehicles at the Red Carpet carwash on East Main St. Wash water is properly collected and disposed at both locations.	Continue vehicle washing program for the DPW and Police Dept.'s. Evaluate all remaining municipal facilities for stormwater pollution prevention needs.
Revised					
6H	Town purchased a new street sweeper	DPW	Maintain annual sweeping.	This item has been completed and the Town continued to sweep streets.	Continue existing street sweeping practices.
Revised					
6I	Enhance Winter Road Management Policies	DPW	Improved efficiency for winter road management to meet target road treatment rates.	Calibrated all trucks and progressed to an all salt no sand initiative with 2/3 of the permit year using only salt. A target salt application rate of 250 lbs/lane mile was established.	Continue to enhance winter road management activities.
Revised				Changed snow policies to include a pre-treating approach and the use of automatic (speed-set) spreaders. This resulted in a noticeable reduction in the salt application rate.	Continue to modify policies to better fit the Town's needs and maximize the efficiency of winter road maintenance activities.

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 12	Planned Activities – Permit Year 12
Revised					

7a. 1 Additional Item

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 12
7A	Develop a Water Quality Strategy for 303d waters	DPW, Conservation Commission	Summary of pollution prevention efforts, future needs, and responsible parties.	The Town continued with implementation of the existing SWMP to address impaired waters.	Continue to implement the existing SWMP. No further action is anticipated until the Phase II permit is renewed.
Revised					Review impaired water list and TMDLs as they are developed, along with information collected as part of the Phase II Stormwater Program and upcoming Phase II permit requirements to develop a water quality strategy to address impaired waters in Town.

7b. WLA Assessment

The Massachusetts Year 2012 Integrated List of Waters outlines several water bodies in Southbridge that are classified as category 5, meaning water bodies in need of a TMDL:

Name	Segment ID	Description	Size	Impairment Cause
Cady Brook	MA41-06	Charlton City WWTP outfall, Charlton to confluence with Quinebaug River, Southbridge.	5.1 miles	-Nutrient/Eutrophication Biological Indicators -(Low flow alterations)
Cohasse Brook	MA41-12	Southbridge through Wells Pond (formerly pond segment MA41053) to the confluence with the Quinebaug River, Southbridge	2.7 miles	-Aquatic Macroinvertebrate Bioassessments -Sedimentation/Siltation -Escherichia coli
Hatchet Brook	MA41-14	From the outlet of No. 3 Reservoir, Southbridge, to the confluence with the Quinebaug River, Southbridge	1.3 miles	-Escherichia coli
McKinstry Brook	MA41-13	Headwaters, east of Brookfield Road, Charlton (excluding intermittent portion) to the confluence with the Quinebaug River, Southbridge	7.3 miles	-Escherichia coli -(Debris/Floatables/Trash)
Morse Pond	MA41033	Southbridge	41.4 acres	-Oxygen, Dissolved -Aquatic Plants (Macrophytes)
Quinebaug River	MA41-02	Sturbridge WWTP outfall, Sturbridge to confluence with Cady Brook, Southbridge	6.5 miles	-Excess Algal Growth -Turbidity -(Debris/Floatables/Trash)
Quinebaug River	MA41-03	Southbridge WWTP outfall, Southbridge to dam just upstream of West Dudley Road, Dudley.	2.2 miles	-Other (unspecified nutrients) -Oxygen, Dissolved -(Physical substrate habitat alterations) -Fecal Coliform -Taste and odor -(Debris/Floatables/Trash)
Quinebaug River	MA41-09	From confluence with Cady Brook, Southbridge to Southbridge WWTP outfall, Southbridge.	1.3 miles	-Aquatic Macroinvertebrate Bioassessments -Ambient Bioassays - Chronic Aquatic Toxicity -Turbidity -(Debris/Floatables/Trash)

There are currently no TMDLs completed for waters in Southbridge. Water quality concerns associated with 303d waters are addressed through the implementation of BMPs under the six minimum measures for Phase II. The approach for addressing impaired waters will be updated based on the new permit.

Part IV. Summary of Information Collected and Analyzed

The Town plans to focus on the following items in the next permit year: collect data for the storm drain system and outfalls using tablets, update the GIS data layers for the storm drain system, evaluate waster quality and monitoring data collected by others, finalize and submit a stormwater bylaw to the Council for review, provide additional stormwater training to DPW employees.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures	(\$)	\$6,000*
*Number only consists of cost of Annual Report preparation and cost of the matching portion of stormwater grant – total program cost not calculated.		

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	90%
Stormwater management committee established	(y/n)	No
Stream teams established or supported	(# or y/n)	1
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Y
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	4
▪ community participation	(%)	800 cars
▪ material collected	(tons or gal)	See BMP 3D
School curricula implemented <i>(Flyers mailed to all homes)</i>	(y/n)	N

Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with “X”)				
▪ Illicit Discharge Detection & Elimination		X		
▪ Erosion & Sediment Control	X			
▪ Post-Development Stormwater Management		X		
Accompanying Regulation Status (indicate with “X”)				
▪ Illicit Discharge Detection & Elimination		X		
▪ Erosion & Sediment Control	X			
▪ Post-Development Stormwater Management		X		

Mapping and Illicit Discharges

Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	206
System-Wide mapping complete	(%)	100%
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	100%
Outfalls inspected/screened	(# or %)	10
Illicit discharges identified	(#)	2
Illicit connections removed	(#) (est. gpd)	2
% of population on sewer	(%)	85%
% of population on septic systems	(%)	15%

Construction

Number of construction starts (>1-acre)	(#)	1
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100%
Site inspections completed	(# or %)	100%
Tickets/Stop work orders issued	(# or %)	0
Fines collected	(# and \$)	0*
Complaints/concerns received from public	(#)	0
*No fines imposed by the Town, only DEP.		

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100%
Site inspections completed	(# or %)	7
Estimated volume of stormwater recharged	(gpy)	Unknown

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1/yr
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	>1/yr
Total number of structures cleaned	(#)	2,379
Storm drain cleaned	(LF or mi.)	~400 LF
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	473.10 tons
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Landfill
Cost of screenings disposal	(\$)	0

Operations and Maintenance (con't)

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	1/yr
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	>1/yr
Qty. of sand/debris collected by sweeping	(lbs. or tons)	1,373.78 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Landfill
Cost of sweepings disposal	(\$)	0
Vacuum street sweepers purchased/leased	(#)	0
Vacuum street sweepers specified in contracts	(y/n)	0

Reduction in application on public land of: (“N/A” = never used; “100%” = elimination)		
▪ Fertilizers	(lbs. or %)	No change
▪ Herbicides (Roundup Pro)	(lbs. or %)	No change
▪ Pesticides	(lbs. or %)	No change

Anti-/De-Icing products and ratios	% NaCl	83%
	% CaCl ₂	0
	% MgCl ₂	0
<i>Approach for anti/deicing roads:</i>	% CMA	0
• 50%/50% NaCl and sand mix used about 1/3 of the winter season, moved towards 100% NaCl application.	% Kac	0
• 100% NaCl application was used for the latter 2/3 of the winter season.	% KCl	0
• Ice-Be-Gone was used with the winter applications as a catalyst.	% Sand	17%
Pre-wetting techniques utilized	(y/n)	Pretreatment
Manual control spreaders used	(y/n)	N
Automatic or Zero-velocity spreaders used	(y/n)	Y (9 sanders)
Estimated net reduction in typical year salt application	(lbs. or %)	Unknown
Salt pile(s) covered in storage shed(s)	(y/n)	100%
Storage shed(s) in design or under construction	(y/n)	Complete