

Municipality/Organization: Town of Millville

EPA NPDES Permit Number: MAR041138

MaDEP Transmittal Number: W-063418

Annual Report Number

& Reporting Period: No. 14: May 1, 2016 - April 30, 2017

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Brian Mullaly

Title: Highway Surveyor

Telephone #: (508) 883-0250

Email:

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: Brian Mullaly

Title: Highway Surveyor

Date:

4-25-17

Part II. Self-Assessment

The Town of Millville received confirmation for coverage under the General Permit for its Municipal Separate Storm Sewer System (MS4) on May 10, 2003. In accordance with the NPDES Phase II Stormwater requirements, Millville has completed the required annual self-assessment compliance review for its Phase II Stormwater Program. The following topics were evaluated for the completion of the Annual Report:

1. Compliance with the Phase II Permit Conditions
2. Appropriateness of the Selected BMPs
3. Progress Towards Achieving the Program's Measurable Goals
4. Results of Any Information that has been Collected and Analyzed
5. Activities for the Next Reporting Cycle
6. Changes in Identified BMPs or Measurable Goals

The Town continued its work on public education by providing a number of informational flyers at several public locations in town, and providing them for download on the Town's website. Educational materials mostly target residences, as the Town is almost exclusively residential in nature. The Town also provides information in newspaper articles and through the local cable access channel, much of which promotes public participation events such as the annual roadside cleanup events in conjunction with Earth Day. For this event, volunteers spread out throughout the town and clean up Town streets and walking paths. The Town also periodically coordinates with the Blackstone River Watershed Association (BRWA) for public participation opportunities, such as the Earth Day Shoreline Cleanup, Family Fun Fishing Day held in May and Day on the Blackstone held in June. Millville also created a dedicated stormwater webpage as part of the Highway Department site to provide general information, as well as downloadable information.

To date, the Town has mapped 78 outfalls using GIS software, representing all known outfalls as of 2007, as well as all known catch basins, manholes and pipes. Since then, the Town has acquired as-built plans showing new stormwater structures. Also during 2007, the Town inspected outfalls for dry weather flows, possibly indicating an illicit discharge. Dry weather flows were traced upstream to natural sources such as wetlands, and no illicit discharges were found. Additional follow-up evaluations are performed during routine Highway Department operations. The Town also routinely inspects outfalls during both dry and wet weather, with suspect flows analyzed for potential illicit discharges. To date, no illicit discharges have been found.

The Town has adopted an Illicit Discharge, Detection, and Elimination (IDDE) Bylaw which is now in effect and being enforced. The Town has also adopted a Stormwater Management Bylaw, requiring projects disturbing one or more acres to obtain a Stormwater Management Permit through the Planning Board. The Planning Board routinely uses the Massachusetts Stormwater Handbook when reviewing and approving projects. The Town also requires that erosion controls be in place and good design techniques be employed, such as maintaining post development flows at predevelopment levels. Finally, Town departments routinely inspect construction projects to ensure erosion controls are in place and stormwater structures are functioning properly. Any complaints received by the public are addressed.

The Highway Department hires an outside contractor to conduct street sweeping every spring after winter sanding operations are complete, and catch basin cleaning every September. Catch

basins prone to excess sediment, such as those at the bottom of a hill or heavily sanded area are cleaned more frequently as needed. Sediment and other materials are removed from the system and properly disposed of. Stormwater structural BMPs are also maintained once per year, including removal of vegetation by Highway personnel and sediment/debris accumulation removal by an outside contractor. Highway personnel document the results of dry and wet weather screening as well as BMP inspections on an inspection form for recordkeeping purposes. The Town also accepts mercury-containing items such as fluorescent bulbs, thermostats, etc. Items are stored in a shed behind the Town Hall until collection by an authorized waste transfer company for disposal approximately once a year.

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 – Next Permit Term
1.1	Material Distribution	Conservation Commission	Distribute yearly mailing	Stormwater educational materials are displayed and made available at the Senior Center, Library, and Police Station. Educational materials consisted of four different types of flyers targeting typical residential topics, such as car washing, fertilizer and pesticide applications, proper disposal of pet wastes, preventing illegal dumping, illicit discharges, and safe storage of household hazardous wastes (HHWs). Included a brochure on proper pet waste disposal with pet registration reminders. Note that the Town Hall is currently closed, so this information is now made available at the temporary location within the Police Station.	Continue to provide educational materials for residents at public places. Include stormwater brochures with mass mailings, such as tax bills. Future public education topics will also target industrial and commercial, however current development is largely residential in nature. Track the number of brochures distributed to residents.
Revised	Distribute Educational Materials	Highway Department	Distribute and display educational materials to Millville households		
1.2	Work with the Blackstone River Watershed Association	Board of Health, Conservation Commission	Coordinate with the Blackstone River Watershed Association	The Town coordinated with the Blackstone River Watershed Association on potential projects requiring stormwater management during permit years 1 through 5. Residents may participate in the BRWA public events as outlined in BMP 2.1.	Coordinate with the Blackstone River Watershed Association as necessary. It is anticipated that coordination will continue once the new Phase II permit becomes effective.
Revised					

1a. Additions.

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 – Next Permit Term
1.3	Attend meetings	All Town Departments and Boards	Coordinate on stormwater-related issues	Town departments and boards, such as the Highway Department, Selectmen, Planning Board, Conservation Commission, and Board of Health coordinate on stormwater-related issues, as well as potential illicit discharges such as failed septic systems. Work to date has also included the establishment of bylaws discussed in BMPs 3.2, 4.1 and 5.1 and establishment of the Stormwater Management Permit through the Planning Board. Meetings are held as necessary.	Continue to coordinate between Town departments and attend meetings as necessary. It is anticipated that coordination will continue once the new Phase II permit becomes effective.
Revised			Meet with other departments and boards as necessary to coordinate on stormwater-related issues		
1.4	Create Dedicated Stormwater Website	Highway Department	Website with information on stormwater	The Town recently implemented a new website with a dedicated Stormwater Information page as part of the Highway Department website. The page provides information on what stormwater is, as well as proper stormwater management and water quality improvements. Millville's webpage also provides several brochures for download as outlined in BMP 1.1.	Continue to maintain the stormwater website and provide informational brochures for download. Periodically update the webpage with additional information, links to outside information, and post information on upcoming public participation opportunities such as the roadside cleanup discussed in BMP 2.4. Track website hits if possible.
Revised					
1.5	Utilize the Public Access Cable Channel to Distribute Stormwater Information	Highway Department	Advertisements of upcoming public participation events and providing stormwater public information	The Town advertised the Earth Day roadside cleanup activity on the local public access channel in advance of the April 29, 2017 event.	Continue to advertise the roadside cleanup event. Explore the use of informational videos, such as EPA's "After the Storm" video.
Revised					

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 – Next Permit Term
1.6	Publish Stormwater-Related Newspaper Articles	Highway Department	Advertisements of upcoming public participation events and providing stormwater public information	Town Departments, including the Board of Health, Conservation Commission, and Selectmen participate in various public outreach activities throughout the year. The Board of Health uses social media to advertise HHW disposal opportunities and the Conservation Commission advertises the Roadside Cleanup at meetings prior to the event.	Continue to advertise the roadside cleanup and HHW disposal opportunities. Publish follow-up articles discussing event success to thank volunteers and encourage future participation.
Revised					

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 – Next Permit Term
2.1	Public Involvement	Board of Health, Conservation Commission	Organize an annual canoe trip to inspect outfalls	The BRWA hosts an annual Earth Day Shoreline Cleanup, most recently on April 29, 2017, that targets towns within the Blackstone River watershed.	Continue to encourage resident participation in the Earth Day Shoreline Cleanup and other activity days.
Revised			Encourage public participation in BRWA events	The BRWA also hosts an annual Family Fun Fishing Day in May and Day on the Blackstone in June. Volunteers are encouraged to participate in these events as a way to enjoy the outdoors.	
2.2	Municipal Roads	Conservation Commission	Storm drain stenciling	Highway Department employees stenciled all catch basins which discharge to rivers and streams contributing to the Blackstone River with a “No Dumping” label prior to Permit Year 7. Town employees inspect the storm drain system during routine operations to see if re-stenciling was required. Fading labels were identified and repainted during Permit Year 14, with approximately 12 to 15 catch basins that discharge to the Blackstone River repainted.	Stencil new and/or repaved streets as budget and time allow, currently scheduled for spring 2017.
Revised	Stencil Catch Basins		Stencil all catch basins that discharge to the Blackstone River		
2.3	Watershed Organizations	Stormwater team	Coordinate with the Blackstone River Watershed Association	The Town coordinated with the Blackstone River Watershed Association on potential projects requiring stormwater management during permit years 1 through 5. No direct coordination has occurred during recent years, however public participation events as described in BMP 2.1 continue. The Town is in the process of becoming a supporting member of the BRWA to further coordination during upcoming years.	Coordinate with the Blackstone River Watershed Association as necessary. Explore the use of BRWA publications. It is anticipated that coordination will continue once the new Phase II permit becomes effective
Revised		Conservation Commission			

2a. Additions.

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 – Next Permit Term
2.4	Earth Day Roadside Cleanup	Highway Department	Annual roadside cleanup and amount of trash and material collected	The Town held its annual Earth Day roadside cleanup event on April 29, 2017 event. Residents and community volunteer groups such as the Boy Scouts were invited to participate. Volunteers met with Town employees at the Town Hall and were given a segment of roadways to target during cleanup efforts. Volunteers typically clean up all Town streets, as well as walking paths. Volunteers collected approximately 1 dumpster full of trash during each event. The Town advertised the event via advertisements and the local cable access channel as discussed in BMPs 1.5 and 1.6.	Hold an annual Earth Day roadside cleanup event, and continue to advertise the event through current media channels.
Revised			Host an annual roadside cleanup event and track the amount of material collected		

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 – Next Permit Term
3.1	Stormwater System Mapping	Highway Department	Map outfalls, catch basins, etc.	The Town mapped a total of 78 outfalls during 2007, representing approximately 95% of known outfalls at that time. Catch basins, manholes, pipes, etc. were also mapped. The Town also has a number of as-built plans documenting new stormwater structures installed since then.	No new field mapping efforts are planned at this time. Update the existing outfall map to show newly installed outfalls, previously unknown outfalls, etc. as time and budget allow and as required under the new permit.
Revised			Map outfalls, pipes, manholes and catch basins		
3.2	Regulatory Mechanism	Board of Health	Develop and implement ordinance	The IDDE Bylaw was approved by voters on May 11, 2015 and is now in effect and being enforced.	Continue to enforce the IDDE Bylaw by prohibiting illicit discharges from stormwater. Evaluate for compliance under the new permit and consider changes if required.
Revised			Develop and implement bylaw		
3.3	Illicit Discharge Plan	Highway Department, Board of Health	Develop illicit discharge plan	The Board of Health responds to any public complaints of suspected illicit discharges such as failed septic systems, illegal dumping, etc. Highway Department employees inspect outfalls as part of routine operations and document any evidence that may reveal an illicit discharge could be present. Should anything suspect be uncovered, the Board of Health is contacted for follow-up. Procedures for documenting information submitted by the public are outlined under BMP 4.4. No suspected illicit discharges were observed during Permit Year 14.	Continue to document any suspected illicit discharges or complaints received by the public. Follow up on all complaints and document the outcome. Continue to inspect outfalls during routine operations.
Revised			Develop Illicit Discharge Detection and Elimination and plan		

3a. Additions.

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 – Next Permit Term
3.4	Post Removal Evaluation	Board of Health	Report on post removals	The Board of Health is prepared to report on any illicit discharges discovered or eliminated in a given year as outlined in BMP 3.3. No illicit discharges have been detected to date.	Post follow-up reports on any illicit discharges found.
Revised			Report on illicit discharge removals		
3.5	Conduct Outfall Inspections	Highway Department	Locate and evaluate possible illicit discharges	The Town formally inspected all known stormwater outfalls in 2007 during dry weather while conducting the mapping efforts described under BMP 3.1. Follow-up outfall inspections were again conducted in October 2011 along the Blackstone River. Any dry weather flows present were traced upstream to ascertain if a natural or man-made source was likely. All dry weather flows were traced to natural sources such as wetlands, and no illicit discharges were detected to date. Highway employees perform informal ongoing dry weather monitoring during routine operations approximately once per year on outfalls discharging to the Blackstone River, particularly during dry fall conditions and document results on an inspection form. Wet weather monitoring is also performed once per year on outfalls discharging to the Blackstone River. If flow is visually suspect, a sample will be collected and analyzed for bacteria with the Board of Health, and the results will be logged on an inspection form.	Continue periodic outfall inspections as part of routine operations, and follow up on any suspected problem areas. Document all results. The Town plans on sampling all outfalls discharging to the Blackstone River during both wet and dry conditions during Permit Year 14, consistent with current practices.
Revised			Locate, evaluate, and remove any illicit discharges found		

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 – Next Permit Term
3.6	Household Hazardous Waste Event	Highway Department	Provide an opportunity for residents to dispose of household hazardous wastes	The Town accepts mercury-containing items such as fluorescent bulbs, thermostats, etc. Items are stored in a shed behind the Town Hall until collection by an authorized waste transfer company for disposal approximately once per year. The Town contacted several nearby towns to explore the possibility of cooperating on a Household Hazardous Waste event, however to date, this has not yet occurred.	Continue accepting mercury-containing devices at the Town Hall. Continue to explore the possibility of cooperating on a Household Hazardous Waste event at least once a year. The event should allow residents to dispose of items such as old oil-based paint, household chemicals, waste oil, etc.
Revised					

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 – Next Permit Term
4.1	Regulatory Mechanism	Planning Board	Develop / implement ordinance	The Planning Board developed a “Stormwater Management Bylaw” requiring any project disturbing one or more acres to obtain a Stormwater Management Permit through the Planning Board. The bylaw was adopted by the Town prior to the conclusion of Permit Year 5.	Continue to enforce the Stormwater Management Bylaw by requiring projects disturbing one or more acres to obtain a Stormwater Management Permit. Evaluate for compliance under the new permit and consider changes if required.
Revised			Develop and implement bylaw		
4.2	Site Plan Review Procedures	Planning Board	Preconstruction review of stormwater pollution prevention plan (SWPPP)	During permit review, the Planning Board utilizes the Massachusetts Storm Water Management Policy and Massachusetts Stormwater Handbook as a guideline for reviewing and approving projects. Erosion and sediment controls are required to be in place during construction activities by the Conservation Commission. Plan reviews were conducted as required throughout Permit Year 14.	Continue to require erosion and sediment controls to be in place during construction activities. Evaluate procedures under the new permit requirements and make changes as required.
Revised			Review site designs and applications as required under local bylaws		
4.3	Site Inspection and Enforcement	Planning Board	Conduct construction site inspections	Construction site inspections were conducted by the Planning Board and/or Conservation Commission as required throughout Permit Year 14 along with BMP 5.3. Highway Department personnel also periodically inspect projects during routine operations. Site inspections typically look for items such as proper stormwater management techniques and well-maintained erosion and sediment controls.	Continue to inspect construction projects to ensure adequate erosion and sediment BMPs are in place. Evaluate procedures under the new permit requirements and make changes as required.
Revised		Planning Board and Conservation Commission	Inspect all construction sites for proper stormwater management		

4a. Additions.

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 – Next Permit Term
4.4	Establish a Procedure for the Receipt of Information Submitted by the Public	Highway Dept., Planning Board, Conservation Commission, Board of Health	Call log of public complaints and follow-up actions taken	In the event of a complaint, residents contact the Town Hall and are directed to the appropriate department or board for follow-up action. The majority of stormwater-related complaints, such as flooding, are addressed by the Highway Department. Other complaints such as suspected illicit discharges are directed to the Board of Health. Town contact information is posted online and advertised in flyers, tax bills, etc. Complaints are addressed by the appropriate department as necessary.	Continue to address any calls or complaints received from the general public. Document and follow-up on any calls or complaints received.
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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
5.1	Regulatory Mechanism	Planning Board	Develop / implement ordinance	The Planning Board developed a “Stormwater Management Bylaw” requiring any project disturbing one or more acres to obtain a Stormwater Management Permit through the Planning Board. The bylaw was adopted by the Town prior to the conclusion of Permit Year 5.	Continue to enforce the Stormwater Management Bylaw by requiring projects disturbing one or more acres to obtain a Stormwater Management Permit. Evaluate for compliance under the new permit. It is likely that changes or alterations will be required to meet new permit requirements.
Revised			Develop and implement bylaw		
5.2	Review BMP Designs	Planning Board	Preconstruction review	During permit review, the Planning Board utilizes the Massachusetts Storm Water Management Policy and Massachusetts Stormwater Handbook as a guideline for reviewing and approving projects. At a minimum, new development and redevelopment projects must maintain post-development stormwater flows at predevelopment levels. Plan reviews were conducted as required throughout Permit Year 14.	Continue to review stormwater projects and require designs to conform to the Massachusetts Stormwater Handbook. Evaluate procedures under the new permit requirements and make changes as required.
Revised			Preconstruction review of all applicable design projects		
5.3	Site Inspection and Enforcement	Planning Board	Construction site inspections	Construction site inspections were conducted by the Planning Board and/or Conservation Commission as required throughout Permit Year 14 along with BMP 4.3. Highway Department personnel also periodically inspect projects during routine operations. Site inspections typically look for items such as proper stormwater management techniques, as well as proper construction according to the approved plans.	Continue to inspect construction projects to ensure stormwater BMPs are in place and functioning properly. Evaluate procedures under the new permit requirements and make changes as required.
Revised			Inspect all construction sites for proper stormwater management		

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 – Next Permit Term
5.4	Operation and Maintenance Procedures	Highway Department	Develop operation and maintenance procedures for BMPs	The Highway Department hires an outside contractor to conduct catch basin cleaning and street sweeping annually, and perform BMP maintenance as needed. Catch basin cleaning was performed October and November 2016, and street sweeping was performed April 2017. Sediment and other materials removed from the system are sampled as required, and properly disposed of, typically at a landfill facility. BMPs 6.2, 6.4, and 6.5 describe additional stormwater system maintenance activities.	Continue to clean out stormwater system structures as needed. Work on tracking quantities of sediment removed during operation and maintenance activities. Evaluate procedures under the new permit requirements and make changes as required.
Revised			Track quantities of sediment removed during O&M procedures		

5a. No additions at this time.

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 – Next Permit Term
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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
6.1	Employee Training Program	Stormwater Management Team	Spill reporting / response	The Highway Surveyor conducts informal pollution prevention and illicit discharge detection training as part of routine Highway Department operation meetings.	Continue training of town employees, particularly Highway Surveyor and Highway Department employees for proper stormwater operations and maintenance procedures.
Revised		Highway Department	Conduct stormwater pollution prevention training		
6.2	Stormwater System Operation and Maintenance	Highway Department	System inspection program	The Highway Department hires an outside contractor to conduct catch basin cleaning. All catch basins in town are cleaned at least once annually, with those subject to heavy accumulation cleaned more frequently (spring and fall). Approximately 180 catch basins were cleaned during Permit Year 14. Highway Department workers are also familiar with catch basins prone to excess sediment accumulation. These basins are inspected during routine operations, particularly after winter sanding operations are completed, to ensure proper function.	Continue to clean all catch basins on an annual basis and clean priority basins prone to excessive sediment accumulation more often as required. Continue to inspect catch basins during routine operations.
Revised	Catch Basin Cleaning		Clean town-owned catch basins annually		
6.3	Parks and Open Space	Parks Department	Application controls	The Veterans Park is the only area in town that is fertilized, typically three times per year. The service is provided through a contracted lawn service. The Town formalized an application reporting procedure for pesticides and fertilizers.	Continue to hire an outside lawn care service to fertilize Veterans Park. Discuss ways to reduce or eliminate fertilizers and pesticide applications.
Revised		Highway Department, Parks and Recreation Department			

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 – Next Permit Term
6.4	Municipal Roads	Highway Department	Street sweeping	The Highway Department hires an outside contractor to conduct street sweepings every spring after winter sanding operations are complete. Sweeping was most recently performed during April 2017.	Continue to hire a contractor to perform street sweeping annually in the spring. Document volumes of sweeping materials obtained during cleaning operations.
Revised	Street Sweeping		Conduct street sweeping annually		

6a. Additions.

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 – Next Permit Term
6.5	Stormwater BMP Cleaning	Highway Department	Clean town-owned stormwater BMPs	The Highway Department hired an outside contractor to clean detention and retention basins during the October 2016. Approximately 15 BMPs were cleaned by an outside cleaning company. Highway Department personnel performed inspections on the BMPs concurrently and logged results on an inspection form. Maintenance generally included removal of sediment and debris by an outside company while Highway personnel perform vegetation removal in-house to prevent excess accumulation.	Inspect stormwater BMPs annually and clean as needed. Document all findings on an inspection form and maintain on file.
Revised					

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 – Next Permit Term
Revised					

7b. WLA Assessment

The MADEP final 2014 303(d) Integrated List of Waters outlines two segments of the Blackstone River (MA51-05 and MA51-06) in the Town of Millville that are classified as Category 5 “Waters Requiring a TMDL”. Segments are impaired as follows:

- MA51-05 other flow regime alterations, aquatic macroinvertebrate bioassessments, cadmium, copper, Escherichia coli, excess algal growth, lead, nutrient/eutrophication biological indicators, total phosphorus, polychlorinated biphenyls (PCBs), taste and odor, total suspended solids, and turbidity.
- MA51-06 other flow regime alterations, cadmium, copper, DDT, lead, PCB in fish tissue, total phosphorus and total suspended solids (TSS).

A Draft Pathogen TMDL for the Blackstone River Watershed has been completed for the above-referenced waterbody segments and lists municipal point sources and urban runoff as potential sources of bacteria. 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 and release of final TMDLs for the above pollutants.

Part IV. Summary of Information Collected and Analyzed

Millville has completed a map of all stormwater structures, including catch basins, manholes, culverts and outfalls. Approximately 78 outfalls have been mapped, with several more located via as-built plans or similar mapping methodology. Structure locations were recorded using GPS software and imported into a base map depicting all locations within Town limits. An illicit discharge inspection program was completed during 2007 for outfalls within the Urbanized Area, and no illicit connections were found.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	No
Annual program budget/expenditures	(\$)	

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	
Stream teams established or supported	(# or y/n)	Yes
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	0
▪ community participation	(%)	N/A
▪ material collected	(tons or gal)	N/A
School curricula implemented	(y/n)	No

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				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management				

Mapping and Illicit Discharges

Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	~78
System-Wide mapping complete	(%)	100%
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	100%
Illicit discharges identified	(#)	0
Illicit connections removed	(#) (est. gpd)	N/A
% of population on sewer	(%)	0
% of population on septic systems	(%)	100%

Construction

Number of construction starts (>1-acre)	(#)	
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

Post-Development Stormwater Management

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

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	100%/yr
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1
Total number of structures cleaned	(#)	180
Storm drain cleaned	(lf or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Landfill
Cost of screenings disposal	(\$)	
Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	1
Qty. of sand/debris collected by sweeping	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	
Cost of sweepings disposal	(\$)	
Vacuum street sweepers purchased/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	
Reduction in application on public land of: (“N/A” = never used; “100%” = elimination)		
▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	
Anti-/De-Icing products and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized	(y/n)	
Manual control spreaders used	(y/n)	
Automatic or Zero-velocity spreaders used	(y/n)	
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	
Storage shed(s) in design or under construction	(y/n)	