

Town of West Bridgewater

Office of the Administrator

Town Hall

65 North Main Street

West Bridgewater, MA 02379

1-508-894-1267 x 121

fax: 1-508-894-1269

e-mail: Efarcy@WBridgewater.com

April 30, 2013

Via Email to stormwater.reports@epa.gov and Frederick.Civian@state.ma.us

Glenda Velez - OEP06-01

U.S. Environmental Protection Agency - Region 1--

5 Post Office Square, Suite 100

Boston, MA 02109-3912

And

Fred Civian

Massachusetts Department of Environmental Protection

One Winter Street - 5th Floor

Boston, MA 02108

RE: NPDES PII Small MS4 General Permit Tenth Annual Report (2012~2013) for
EPA NPDES Permit Number MAR041172 and
MaDEP Transmittal Number W-041193

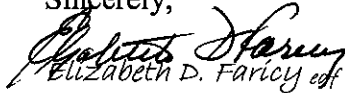
Dear Ms. Velez and Mr. Civian:

Enclosed please find the Town of West Bridgewater's tenth annual report as referenced above.

The required **DECLARATION** form has been completed and is enclosed as part of the email submittal.

Please call if you have any further questions of the Town in this regard.

Sincerely,



Elizabeth D. Faricy

Administrator

CC: Board of Selectmen
Highway & Vehicle Maintenance Supt. Leonard W. Graf III

ATTACHMENT

Instructions: Complete and Include With Your Response

DECLARATION

I declare under penalty of perjury that I am Elizabeth D. Faricy, the
Administrator of the ~~City~~/Town of West Bridgewater, Massachusetts, that I
am authorized to respond on behalf of the ~~City~~/Town and that the foregoing
is a complete, true and correct response.

Executed on April 30, 2013

A handwritten signature in cursive script, reading "Elizabeth D. Faricy", followed by a horizontal line.

[Signature]

Elizabeth D. Faricy,

Administrator

[Typed Name and Title]

Municipality/Organization: Town of West Bridgewater

EPA NPDES Permit Number: MAR041172

MassDEP Transmittal Number: W-041193

Annual Report Number

& Reporting Period: No. 10 April 1, 2012 – March 31, 2013

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2013)

Part I. General Information

Contact Person: Leonard Graf

Title: Highway and Vehicle Maint. Supt.

Telephone #: 1-508-894-1216

Email: LGraf@WBridgewater.com

Mailing Address: Highway Department, 65 North Main Street, West Bridgewater, MA 02379

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: Elizabeth D. Faricy.

Printed Name: Elizabeth D. Faricy

Title: Administrator

Date: April 30, 2013

Part II. Self-Assessment

The Town of West Bridgewater has completed the required self-assessment and has determined that our municipality's efforts to implement some of the BMPs required in the permit have required more time to implement than was originally thought. Highway & Vehicle Maintenance Supt. Leonard Graf is taking the lead on dealing with the current NPDES permit requirements and has been coordinating with Water Department Supt. Rick Krugger for updating the Town's mapping in GIS format for storm drainage systems throughout the Town. The Town's CWRMP committee continues to work with the Water Superintendent to identify and map additional information on GIS drawings.

In addition, the CWRMP committee continues to review the activities covered by the permit, to determine which are appropriate to be coordinated directly by the committee, vs. the ones that should be coordinated and/or implemented by paid Town staff such as the highway department. The CWRMP is coordinating its efforts with the Highway Superintendent and his department to develop clear lines of responsibilities. Items that are anticipated to fall under the CWRMP include stenciling of drains, forming a public education force, and other activities that can be reasonably expected to be performed by volunteers or in conjunction with the schools.

The provisions of the permit which the Town is currently not in compliance with are the following:

BMP #4 - Educate Students

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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
1. Revised	Enlist residents as S/W Educators	S/W Mgr.	Form Public Education force	The CWRMP committee Made no progress this year.	Begin to recruit volunteer stormwater educators.
2. Revised	Design and Distribute brochures	S/W Mgr.	Raise public awareness	Consider additional public notices through newspaper articles	Ongoing efforts to get the word out through the press.
3. Revised	Stencil storm drains	Highway Department	Identify all MSW4's	CWRMP Committee completed 90% of the mapping and evaluated the prospect of using metal plates as storm drain markers and decided to go with the idea of painting the drain inlets to identify them.	Committee will look into utilizing scout troops as a scout project to stencil the drain inlets.
4.	Educate students	Task Force and Teachers	Introduce in Classrooms	CWRMP Committee made no progress with this task. CWRMP Committee to meet with science teachers at the school to discuss working with them to educate the students.	
Revised					
Revised					
Revised					
Revised					

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year -10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
5. Revised	Form Technical Committee T/C	S/W Mgr.	Committee Provides technical assistance	Focus committee's attention on preparing for the requirements of the new NPDES permit while implementing the remainder of the parts of the current NPDES permit.	Continue to focus committee's attention on preparing for the requirements of the new NPDES permit while implementing the remainder of the parts of the current NPDES permit.
6. Revised	T/C Reviews general permit	T/C	Goals identified	On going NPDES permit review for compliance.	On going.
7. Revised	T/C drafts By-Laws	T/C	Town Meeting adopts by-laws	Completed	Committee to meet with Conservation Commission, ZBA, Planning Board, Building Inspector as appropriate to seek input for changes needed for Town Meeting adopted by-laws relating to enforcement of storm water management BMPs.
8. Revised	Residents assist with by-law enforcement	S/W Mgr.	Residents report violations	Residents report violations to Board of Health and Conservation Commission Agents and/or Highway Supt. Supt. works with Town agents to investigates and take action to stop the violation	Ongoing.
Revised					
Revised					

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
9.	Map outfalls and MS4	Highway Supt.	Map of MS4	Began integrating storm drain information into Water Department's mapping program by acquiring funding to expand use of GIS program to more departments.	Continue to work with integrating into Water Department's mapping program.
Revised					
10.	Train staff in outfall inspection	Highway Supt	Develop detection program	Detection instruction given to new hires.	Ongoing instruction and updates to all department employees
Revised					
11.	Technical Committee drafts illicit discharge bylaw	Highway Supt	Town adopts bylaw	Completed	Completed
Revised					
12.	Enforcement of bylaw	Highway Supt and Board of Selectmen	Discourage violations	Ongoing program every day. Complaints brought to ConCom, Board of Health, Building Inspector and Highway Department.	Continue
Revised					
Revised					
Revised					

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) -- Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities -- Permit Year 11
13.	Joint selection of erosion BMPs to be required for construction	Tech. Comm.	Con-Com. Assist w/drafting Erosion & Sediment Control By-Law	Work with ConCom By-Laws and Rules and Regulations which address erosion and sediment control to learn procedures to follow.	Ongoing.
Revised					
14.	Pl. Bd. Includes E&S BMPs in subdivision review	Technical Committee, Planning Bd.	BMPs required	Work with Planning Board and Conservation Commission to make sure BMPs are required	Look at updating BMP's as technology changes.
Revised					
15.	ZBA includes E&S BMPs in site plan review	Tech. Comm., ZBA	BMPs required	Completed.	Completed.
Revised					
Revised					
Revised					
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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
16.	PlBd Meets with Tech. Comm to review goals of S/W plans	Pl.Bd., Tech Comm.	Identify changes in regs needed to comply	Reviewed all BMPs with Planning Board Chairman to incorporate into SPR process and on-going procedures to use during Site Plan Review process.	Ongoing.
Revised					
17.	Propose regulation changes as appropriate	Pl.Bd., Tech Comm, ZBA	Amend existing regulations	Completed .	Completed
Revised					
18.	Require BMPs in review process	Pl. Bd., ZBA	Land use boards require S/W management plans	Completed	Completed.
Revised					
19.	Require deed restrictions	Pl.Bd/ ZBA, Town Counsel, S/W Mgr.	Town can ensure long term maintenance	Continue to evaluate and monitor progress of Boards on projects where deed restrictions may be appropriate.	Continue to evaluate and monitor progress of Boards on projects where deed restrictions may be appropriate.
Revised					
Revised					
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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
20.	Clean Catch basins regularly	Highway Dept.	Prevent debris from entering MS4	In progress.	Continue program and evaluate its efficiency.
Revised					
21.	Sweep streets regularly	Highway Dept.	Prevent sand & debris from entering MS4	In progress.	Continue program.
Revised					
22.	Use E&S controls for road repairs	Highway Department	Prevent erosion into MS4	Filed a Notice of Intent process with the Conservation Commission for all road repairs and received an Order of Conditions to proceed	Utilize the Order of Conditions issued by the Conservation Commission for all road repairs.
Revised					
23.	Cover outside drains	Highway Dept.	Prevent leachate	Develop modifications to covers to facilitate maintenance.	Continue modifications to covers to facilitate maintenance.
Revised					
Revised					
Revised					

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
24.	Does MS4 discharge into impaired water body?	Highway Supt.	Show outfalls of MS4 into impaired water bodies	Outfalls being added to GIS system in the Water Department.	Ongoing mappings added to GIS.
Revised					
25.	Identify whether pollutants are discharging into MS4	Highway Supt.	Identify source of pollutants	Respond to reported instances of suspected pollutant discharge when they arise.	Continue program
Revised					
26.	Ensure WLA met by S/W BMPs	Highway Supt.	Determine if add'l S/W BMPs needed	Work with peer engineering review with Planning Board and Zoning Board of Appeals for each new Site Plan Review.	Continue program
Revised					
27.	Eliminate pollutant discharges coming through MS4	Highway Supt.	Enforce illicit discharge by-law	Highway Supt works with Conservation Commission and Board of Health agents for investigation and enforcement.	Ongoing.
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

The Town has not performed any specific sampling or data collection related to the outfalls or receiving waters. No information is available.

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, 2012 through March 31, 2013)

Programmatic

	(Preferred Units)		Response
	(y/n)	Yes – Highway Supt.	
Stormwater management position created/staffed			
Annual program budget/expenditures could estimate a percent of annual DPW Budget	(\$)		Not estimated
Total program expenditures since beginning of permit coverage	(\$)		Not estimated
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)			General Fund

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	2,300 households
Stormwater management committee established	(y/n)	Yes
Stream teams established or supported	(# or y/n)	no
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n, or mi.)	No
Shoreline cleaned since beginning of permit coverage	(mi.)	N/A
Household Hazardous Waste Collection Days :		
▪ days sponsored **	(#)	0
▪ community participation **	(# or %)	0

■ material collected **	(tons or gal.) 27 car batteries; 180 tires; 874 lbs. alkaline batteries; 231 lbs NiCad batteries 44 lb Lithium batteries 2900 gallons waste oil.	
School curricula implemented	(y/n)	No -ongoing planning

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					X
Erosion & Sediment Control	X				X
Post-Development Stormwater Management	X				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

	(Preferred Units)		Response
Outfall mapping complete		(%) 80%	
Estimated or actual number of outfalls		(#)	36
System-Wide mapping complete (complete storm sewer infrastructure)		(%) 80%	

Mapping method(s)			
▪ Paper/Mylar	(%)		60-70%
▪ CADD	(%)		0
▪ GIS	(%)80%		
Outfalls inspected/screened **	(# or %)		0
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)		100%
Illicit discharges identified **	(#)0		
Illicit discharges identified (Since beginning of permit coverage)	(#)		6
Illicit connections removed **	(#) and (est. gpd)		1
Illicit connections removed (Since beginning of permit coverage)	(#) and (est. gpd)		5
% of population on sewer	(%)		4%
% of population on septic systems	(%)		96%

Construction

	(Preferred Units)		Response
Number of construction starts (>1-acre) **	(#)		26
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 (for proper BMP installation & operation) completed **	(# or %)		100%
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)		Yes - 3
Low-impact development (LID) practices permitted and encouraged	(y/n)		Yes

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1 time/year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1 time/year
Qty of structures cleaned **	(#)	100
Qty. of storm drain cleaned **	(%, LF or mi.)	100 feet
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	2.5 T/est.
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	All being hauled away by contractor.

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$4,000
• Hourly or per basin contract rate **	(\$/hr or \$/basin)	Per contract
• Disposal cost**	(\$)	Contract
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	No
• Vacuum truck(s) owned/leased	(#)	No
• Vacuum trucks specified in contracts	(y/n)	No
• % Structures cleaned with clam shells **	(%)	100%
• % Structures cleaned with vector **	(%)	0 %

(Preferred Units)		Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	2 -3 times/yr
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	2-3 times/yr
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	20 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$7,000
• Hourly or lane mile contract rate **	(\$/hr or ln mi.)	NA

• Disposal cost**	(\$)	\$3,500
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1 owned
• Vacuum street sweepers owned/leased	(#)	No
• Vacuum street sweepers specified in contracts	(y/n)	NA
• % Roads swept with rotary brush sweepers **	(%)	100%
• % Roads swept with vacuum sweepers **	(%)	0%

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	2% increase since beginning of permit.
▪ Herbicides	(lbs. or %)	Use 2 quarts of concentrated round-up a year
▪ Pesticides	(lbs or %)	Uses 10 -- 18oz. cans of Hornet & Wasp Spray each year.
Integrated Pest Management (IPM) Practices Implemented -- Program in place for Schools and Town	(y/n)	Yes

(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	90%
	% CaCl ₂	
	% MgCl ₂	10%
	% CMA	
	% Kac	
	% KCl	
	% Sand	
Pre-wetting techniques utilized **	(y/n or %)	Yes
Manual control spreaders used **	(y/n or %)	Yes
Zero-velocity spreaders used **	(y/n or %)	No
Estimated net reduction or increase in typical year salt/chemical application rate	(lbs/lb mi. or %)	None
Estimated net reduction or increase in typical year sand application rate **	(lbs./lb mi. or %)	None used
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100 %
Storage shed(s) in design or under construction	(y/n or #)	Already built
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	Yes

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	(# or y/n)	None
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	(# or y/n)	None
• Treatment units induce infiltration within 500-feet of a wellhead protection area	(# or y/n)	None Known