

Municipality/Organization: **Town of West Bridgewater**

EPA NPDES Permit Number: **MAR041172**

MassDEP Transmittal Number: **W-041193**

**Annual Report Number
& Reporting Period:**

No. 4 April 1, 2006 – March 31, 2007

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2007)

Part I. General Information

Contact Person: Thomas C. Green

Title: Highway Superintendent

Telephone #: 1-508-894-1216

Email: TGreen@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:

Printed Name: Elizabeth D. Faricy

Title: Administrator

Date: May 28, 2007

Part II. Self-Assessment

The Town of West Bridgewater has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions except for the following provisions:

- 1. BMP No. 2: Consider additional public notices of S/W BMPs through newspaper articles.**
- 2. BMP No. 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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
1. Revised	Enlist residents as S/W Educators	S/W Mgr.	Form Public Education force	Continue review of PER as a committee	Continue review of PER as a committee
2. Revised	Design and Distribute brochures	S/W Mgr.	Raise public awareness	Consider additional public notices through newspaper articles	CONitnue putting out the owrd through the press
3. Revised	Stencil storm drains	Highway Department	Identify all MSW4's	Began stenciling storm drains	Continue stenciling all identified storm drains
4. Revised	Educate students	Task Force and Teachers	Introduce in Classrooms	NO progress	Loo into suitable materials to use for education of students.
Revised					
Revised					

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
5. Revised	Form Technical Committee T/C	S/W Mgr.	Committee Provides technical assistance	CWRMP Committee continued monitoring progress of reviewing State mandated PER	Continue program
6. Revised	T/C Reviews general permit	T/C	Goals identified	NPDES permit review for compliance	On going.
7. Revised	T/C drafts By-Laws	T/C	Town Meeting adopts by-laws	Completed	Completed.
8. Revised	Residents assist with by-law enforcement	S/W Mgr.	Residents report violations	Residents report violations to Board of Health and/or Highway Supt. Supt. Investigates and takes 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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
9. Revised	Map outfalls and MS4	Highway Supt.	Map of MS4	Coordinating mapping with the Town's GIS program	Continue program
10. Revised	Train staff in outfall inspection	Highway Supt	Develop detection program	On going program for all members of the department	On going program for all members of the department
11. Revised	Technical Committee drafts illicit discharge bylaw	Highway Supt	Town adopts bylaw	Completed	Completed
12. Revised	Enforcement of bylaw	Highway Supt and Board of Selectmen	Discourage violations	Ongoing program every day.	Continue
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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
13. Revised	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 lean procedures to follow.	Ongoing.
14. Revised	Pl. Bd. Includes E&S BMPs in subdivision review	Technical Committee, Planning Bd.	BMPs required	Worked with Planning Board Chairman to make sure BMPs are required of new developments during Site Plan Review.	Ongoing.
15. Revised	ZBA includes E&S BMPs in site plan review	Tech.Comm., ZBA	BMPs required	Worked with Zoning Board of appeals to make sure that BMPs are required of new developments during Site Plan Review.	Ongoing.
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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
16. Revised	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.
17. Revised	Propose regulation changes as appropriate	Pl.Bd., Tech Comm, ZBA	Amend existing regulations	Completed .	Completed
18. Revised	Require BMPs in review process	Pl. Bd., ZBA	Land use boards require S/W management plans	Completed	Completed.
19. Revised	Require deed restrictions	Pl.Bd/. ZBA, Town Counsel, S/W Mgr.	Town can ensure long term maintenance	Ongoing.	Ongoing.
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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
20. Revised	Clean Catch basins regularly	Highway Dept.	Prevent debris from entering MS4	In progress.	Continue program.
21. Revised	Sweep streets regularly	Highway Dept.	Prevent sand & debris from entering MS4	In progress.	Continue program.
22. Revised	Use E&S controls for road repairs	Highway Department	Prevent erosion into MS4	On going.	Continue program.
23. Revised	Cover outside drains	Highway Dept.	Prevent leachate	In progress	Continue program.
Revised					
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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
24. Revised	Does MS4 discharge into impaired water body?	Highway Supt.	Show outfalls of MS4 into impaired water bodies	Continue program.	Continue program
25. Revised	Identify whether pollutants are discharging into MS4	Highway Supt.	Identify source of pollutants	On Going inspections and identification of pollutants.	Continue program
26. Revised	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
27. Revised	Eliminate pollutant discharges coming through MS4	Highway Supt.	Enforce illicit discharge by-law	Review those known to date and enforced by By-Law.	Ongoing.
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, 2006 through March 31, 2007)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	Yes – Highway Supt.	
Annual program budget/expenditures could estiate 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)		

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	2,300 households	
Stormwater management committee established	Yes	
Stream teams established or supported	Yes	
Shoreline clean-up participation or quantity of shoreline miles cleaned **	N/A	
Shoreline cleaned since beginning of permit coverage	N/A	
Household Hazardous Waste Collection Days		
▪ days sponsored **	2	
▪ community participation **	2000	

▪ material collected **	Paints, solvents, tires, all hazardous materials.(tons or gal)	
School curricula implemented	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	85%	
Estimated or actual number of outfalls	24	
System-Wide mapping complete (complete storm sewer infrastructure)	80%	
Mapping method(s)		
▪ Paper/Mylar	0	
▪ CADD	0	
▪ GIS	24	

Outfalls inspected/screened **	All inspected/screene d	
Outfalls inspected/screened (Since beginning of permit coverage)	All inspected/screene d	
Illicit discharges identified **	1	
Illicit discharges identified (Since beginning of permit coverage)	5	
Illicit connections removed **	5	
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	
% of population on sewer	4%	
% of population on septic systems	96%	

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	5	
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	100%	
Site inspections completed **	100%	
Tickets/Stop work orders issued **	1	
Fines collected **	0	
Complaints/concerns received from public **	1	

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 **	100%	
BMP maintenance required through covenants, escrow, deed restrictions, etc.	None	
Low-impact development (LID) practices permitted and encouraged	Yes	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	1 time/year	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	2 times/year	
Qty of structures cleaned **	400	
Qty. of storm drain cleaned **	10 miles	
Qty. of screenings/debris removed from storm sewer infrastructure **	50 T/est.	
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	Compost	

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	\$4,500	
• Hourly or per basin contract rate **	Per contract	
• Disposal cost**	Contract	
Cleaning Equipment		
• Clam shell truck(s) owned/leased	NA	
• Vacuum truck(s) owned/leased	NA	
• Vacuum trucks specified in contracts	NA	
• % Structures cleaned with clam shells **	NA	
• % Structures cleaned with vector **	NA	

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	2 times/yr	
Average frequency of street sweeping (commercial/arterial or other critical streets) **	2 times/yr	
Qty. of sand/debris collected by sweeping **	35 tons	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	Compost/landfill	
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	\$7,000	
• Hourly or lane mile contract rate **	NA	
• Disposal cost**	Compost landfill	
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	1 owned	
• Vacuum street sweepers owned/leased	No	

• Vacuum street sweepers specified in contracts	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	1,200 lbs. used	
▪ Herbicides	1 gal.- Round- up-- Concentrate	
▪ Pesticides	2 qts. Used	
Integrated Pest Management (IPM) Practices Implemented – Program in place for Schools and Town	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)	100 % NaCl 0 % CaCl ₂ 0% MgCl ₂ 0% CMA 0% Kac 0% KCl 0% Sand	
Pre-wetting techniques utilized **	No	
Manual control spreaders used **	Yes	
Zero-velocity spreaders used **	No	
Estimated net reduction or increase in typical year salt/chemical application rate	35 lbs per mile	
Estimated net reduction or increase in typical year sand application rate **	None used	
% of salt/chemical pile(s) covered in storage shed(s)	100 %	
Storage shed(s) in design or under construction	Already built	

100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	Yes	

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	None	
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	None	
Treatment units induce infiltration within 500-feet of a wellhead protection area	Not Known	