

Municipality/Organization: Town of Dighton, MA

EPA NPDES Permit Number: MAR 041105

Mass DEP Transmittal Number: W-040738

Annual Report Number Year 8
& Reporting Period: April 1, 2010 – March 31, 2011

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2010)

Part I. General Information

Contact Person: Thomas J. Pires Title: Board of Selectman, Chairman
Board of Health Member

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Mailing Address: 979 Somerset Avenue, Dighton, MA 02715

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: Thomas J. Pires

Title: Chairman, Board of Health

Date:

Part II. Self-Assessment

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

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 8 (Reliance on non-municipal partners indicated, if any)	Completed Activities – Permit Year 8
1-1	Continue working with schools to get info out to public. Continue to raise awareness in the public school system.	Thomas J. Pires	Look into possible expansion of program.	Contacted Principals of local schools re stormwater info for curricula. No major changes made in teaching materials. Bristol County Agricultural High School includes stormwater as part of Soil Sciences and Nature Studies Program.	Schools continued to have stormwater as part of their curricula. Task completed. Students from BCAHS will help with monitor outfalls on Taunton and Three Mile River next year. <i>See Addendum # 1 for more info.</i>
1-2	Storm-water info kept in public area at town hall. Increase awareness of storm-water BMP's at B.O.H. televised weekly meetings.	Thomas J. Pires	Continue to have information on Stormwater available in Town Hall for the public	Amended Storm water regulation available in public info area at town hall. Public Meetings were held to inform residents of proposed changes to and Regulations	Task completed <i>See Addendum # 1 for more information</i>
Revised					
Revised					

Revised					
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1a. Additions

1-3	Work on methods of getting info out to the public re stormwater	Thomas J. Pires	Public meetings to discuss proposed waiver to allow infiltration basins for stormwater disposal/management	Completed public meetings. Amended By-Law to increase land disturbance area to 35,000 sq. ft. Propose to add more definitions to Storm-water By-law	Task completed Continue to pursue new way of getting information out to public.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities-Permit Year 8
2-1	Research infiltration basins for stormwater disposal and management	Thomas J. Pires	Conduct field trips and site visits to view/inspect infiltration basins. To explore best methods of Storm Water.	Worked with engineer for proposed 40B development re research and inspection of infiltration basins, detention basins, and retention basins. Implement best methods of subsurface infiltration basins. Will hold Public meeting for input and requested input from various departments	Task completed Hold a public hearing to revise current regulations. See addendum # 1 for more information.
Revised					
Revised					

Revised					
Revised					
Revised					
Revised					

2a. Additions

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities-Permit Year 8
3-1	Review existing outfall maps and update as needed	Highway Supt.	Check outfalls and inspect to see if there are any others that may have been overlooked during past inspections	No new outfalls detected. Discussed use of students from BCAHS with Supt. of Schools	Will meet with students to report annually monitoring Towns GIS mapping to incorporate Storm water.

Revised					
3-2	Detect and eliminate discharges	Highway Superintendent	Check for any new discharge sites	No new discharge sites located by Storm Drain System Cleaning Contractor or by Highway Dept. Employees	Continue to monitor
Revised					
3-3	Conduct Illicit Discharge Education Program	Highway Superintendent	Conduct illicit discharge training with new employees and annual review with all current employees	Covered this as part of on-the-job training for new hires and continuing education for current employees	Task completed Ongoing training as needed
Revised					
3-4	Check on By-Law implementation	Thomas J. Pires	Presented By-Law Amendment to increase land disturbance area to 35,000sq.ft. to Townspeople at Town Meeting	Townspeople approved Amendment as proposed. Explore the feasibility of increasing the land disturbance area to 1 acre	Task completed Will discuss the increase with various departments in town and hold a public meeting.
Revised					
3-5	Check on Implementation of Stormwater Regulations	Thomas J. Pires	Enforced By-Law and Regulations	Issued one Cease & Desist Orders for Stormwater Violations	One is still open. The number of violations has reduced due to the awareness of Storm-water.
Revised					
Revised					

3a. Additions

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities-Permit Year 8
4-1	Revise Site Plan Review section of Zoning By-Law		Explore Potential LID Bylaws		Task completed
		Planning Board	Reviewed site plan for possible revisions	No revisions required	
4-2	Review procedures for receipt and consideration of information submitted by the public	Board of Health	Proposed changes in By-Law and Regulations Received input from Planning Board and Citizens	Change in land disturbance are approved by Boards and Voters	Task completed
4-3	Revise Site Inspection and Enforcement Control Measures Program	Board of Health	Site inspections were proposed for all violators (1 Cease & Desist Orders)	Site inspections resulted in three Cease & Desist Orders being lifted	Task completed We continue to monitor all construct and land disturbance areas covered by the By-Law
Revised					
Revised					
Revised					
Revised					

4a. Additions

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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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities-Permit Year 8
5-1	Review to see if need to modify Zoning By-Law	Planning Board	Check to see if Stormwater By-Law conflicted with any Zoning By-Laws or if Stormwater By-Law caused any permitting difficulties.	No Conflicts found that resulted in permitting difficulties during this reporting period.	Task completed
Revised					
5-2	Revise Subdivision Rules and Regulations	Planning Board	Determine if any Subdivision Rules & Regulations needed further revision.	Review completed for reporting period and no revision needed No problems encountered or conflicts with existing Subdivision Rules and Regulations and new Stormwater-By-Law & Regulations	Task completed
Revised					
5-3.1	Ensure Adequate Long-Term O&M of BMP's	Highway Superintendent and Thomas J. Pires	Annual review process used to determine if O&M of BMP's are practical in application or if there needs to be changes to accommodate changes in conditions or processes during reporting period.	Completed review. May need to make revisions to BMP's during next year. No major problems detected.	Task partially completed. Will continue to monitor this area for possible revision in next reporting period. BMP, Meet with various Boards
Revised					

5-3.2	Ensure Adequate Long-Term O&M of BMP's	Planning Board	Any proposed change or revisions in 5-3.1 above will be discussed with the Planning Board and any other appropriate Board or Commission.	No action required during reporting period.	Task completed BMP meet with various Boards
Revised					
Revised					
Revised					

5a. Additions

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities-Permit Year 8
6-1 Revised	Educated Municipal Employees	Highway Superintendent	Update Employee Training	Town has updated training program on stormwater management, including methods for spotting problems, illicit discharges or suspicious storm drain discharges.	Town will continue to update training as required and as new stormwater management information becomes available.
6-2 Revised	Develop & Implement plan to prevent and reduce pollutant runoff from municipal operations	Highway Superintendent	More work on Municipal Operations Stormwater Plan (MOSP) needed	Town worked toward development of MOSP. The Town continues to review and expand MOSP.	Town will continue to expand MOSP. Increase frequency of sweeping
6-3 Revised	Catch Basin Cleaning	Highway Superintendent	Clean and inspect all catch basins annually.	Through the use of a subcontractor, all catch basins were cleaned during Year 8	Annual catch basin cleaning will continue.
Revised					
Revised					
Revised					

6a. Additions

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6-4	Street Sweeping	Highway Department	Perform sweeping on all Town Roads annually.	Street Sweeping was conducted on all streets during Year 8.	Street sweeping of all town roadways will continue. Increase frequency to twice a year
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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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities-Permit Year 8
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

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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, 2009 through March 31, 2010)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures **	(\$)	54,990
Total program expenditures since beginning of permit coverage	(\$)	160,245
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 %)	100%
Stormwater management committee established	(y/n)	N
Stream teams established or supported	(# or y/n)	N
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	N
Shoreline cleaned since beginning of permit coverage	(mi.)	N
Household Hazardous Waste Collection Days		
▪ days sponsored **	1	Y
▪ community participation **	(# or %)	Y
▪ material collected **	305 gal	Y
School curricula implemented	(y/n)	Y

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
▪ 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

	(Preferred Units)	Response
Outfall mapping complete	(%)	100
Estimated or actual number of outfalls	(#)	27
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100
Mapping method(s)		
▪ Paper/Mylar	(%)	100
▪ CADD	(%)	0
▪ GIS	(%)	0
Outfalls inspected/screened **	(# or %)	100
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	100
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	0

Illicit connections removed **	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	0
% of population on sewer	(%)	20%
% of population on septic systems	(%)	80%

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	20
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100%
Site inspections completed **	(# or %)	100%
Tickets/Stop work orders issued **	(# or %)	1
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)	Y
Low-impact development (LID) practices permitted and encouraged	(y/n)	Y

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1
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Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1
Qty of structures cleaned **	(#)	760
Qty. of storm drain cleaned **	(%, LF or mi.)	100%
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	Est. 500 tons
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill, Compost

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	36,988*
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	\$6.0526/basin
• Disposal cost**	(\$)	0
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1
• Vacuum truck(s) owned/leased	(#)	0
• Vacuum trucks specified in contracts	(y/n)	N
• % 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.)	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)	Est. 1000 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill, Compost
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	18,002
• Hourly or lane mile contract rate **	(\$/hr. or lane mi.)	\$43.70/hr
• Disposal cost**	(\$)	0

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Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	0
• % Roads swept with rotary brush sweepers **	%	100
• % Roads swept with vacuum sweepers **	%	0

*Includes \$12,240 of Storm-related expenses

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

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	15% 85%
Pre-wetting techniques utilized **	(y/n or %)	N
Manual control spreaders used **	(y/n or %)	Y
Zero-velocity spreaders used **	(y/n or %)	N

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Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	No change
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	No change
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100
Storage shed(s) in design or under construction	(y/n or #)	N
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	Y

Water Supply Protection

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

ADDENDUM #1
**NPDES PII Small MS4 General Permit
Annual Report**

Municipality/Organization: Town of Dighton, MA

EPA NPDES Permit Number: MAR041105

Mass DEP Transmittal Number: W-040738

**Annual Report Number
& Reporting Period:** [No. 8: April 1, 2010-March 31, 2011](#)

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ADDITIONS

The town received a re-imbursement of \$14,270.25 due to the 2010 flooding, **Project PW00309**

BMP 1-1

The Bristol County Agricultural High School Administration has agreed to have students from the school assist with monitoring outfalls along the waterways in town. In March of 2010 representatives of the town met with the Director of Natural Resources Management at the school to discuss adding storm-water and outfall monitoring to the curriculum. Later that month an informational classroom session was arranged with combined grades 9, 10 and 11 to review the program that will become the field-work addition to the class. The school presently has the equipment and the capabilities to test for P.H., conductivity and water temperature. On each inspection of an outfall a photo will be taken for comparison purposes with subsequent inspections. The location of the outfall will also be mapped with the G.I.S. location.

BMP 1-2

The town has an annual informational mailing that includes input from all the departments and boards. In this mailing is always an update on storm-water related matters. Copies of this mailing are also available in the public information area at Town Hall. The Board of Selectmen in the Town of Dighton is also the Board of Health. The board has weekly televised meetings to address town matters and relay written correspondence received to the residents. Our plans this year for public outreach will be to add a storm-water related article for reading at least twice a month to our correspondence.

OTHER ACTIVITIES

Replacement of the Berkley Dighton Bridge over the Taunton River and the reconstruction of Center Street are ongoing. The old bridge has been removed and a temporary one is in place pending construction of the new bridge. Town officials continue to monitor construction. The proposal by the Bristol County Agricultural High School to extend the town's municipal sewer line east on Center Street to the Taunton River is progressing. Once completed, this will provide municipal sewage disposal to the campus thus eliminating multiple Title V systems presently in use.

The students at Bristol Agriculture School also have plans to construct a Rain Garden on school property for the collection of Storm water. They are planning on constructing prior to the end of the school year.

