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Municipality/Organization: Dartmouth, Massachusetts

EPA NPDES Permit Number: MAR041102

MaDEP Transmittal Number: W-

**Annual Report Number
& Reporting Period:** No.10: March 12- March 13

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: David T. Hickox, P.E. **Title:** 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: David S. Cressman

Printed Name: David Cressman

Title: Executive Administrator

Date: April 5, 2012

Part II. Self-Assessment

The Town of Dartmouth Massachusetts 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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – New Permit
1-1 Revised	Partnerships <i>Install tributary signage.</i>	DPW, BOH Planning	Partnerships, Press releases, distribute Maintain and replace as necessary tributary signs.	The Board of Health and Department of Public Works continue document and mitigate sources of illicit discharges. The Town has continued a multi-year partnership with the University of Massachusetts, the Dartmouth Lloyd Center, and the Coalition for Buzzards Bay to restore the health of Dartmouth's coastal estuaries and rivers. UMass has completed the Slocums/Little River Report and had committed to submitting a Final Apponagansett Bay Report by July 2012, to date we have not received the Final Report. Turn the Tide has completed the bacterial Total Maximum Daily Load report and have notified the Town that the report is completed and to be used as a final document. The Town continues to maintain and replace missing tributary signs on a as needed basis.	New permit to be issued in 2013
1-2	Educational Materials	DPW, BOH	Distribute Fact Sheets at municipal buildings, install "Storm Drain Stencil" in designated areas..	The Town initiated a Cigarette Liter Prevention Educational Program in July of 2011. Due to funding, the program signs were not installed in July 2012. The DPW will continue to declare July as Cigarette litter Prevention Month	

Revised				and will post appropriate signage throughout the Town particularly at traffic lights where the cigarette liter is problematic. The Town continues to provide Storm Drain Information via fact sheets at various locations throughout the Town. The Town utilized Highway Division laborers to maintain cigarette dispensers and install public notices as part of the "cigarettes are liter" campaign. . Due to funding , the DPW was unable to utilize UMass Engineering interns for the installation of permanent storm water logos on catch basin inlets in 2012.. Damaged or missing logo's were replaced on an as needed basis by DPW laborers.	
1-3 Revised	Reaching Diverse Audiences	DPW, BOH		The "cigarette are liter" campaign reached significant audiences in 2011 by placement of the liter signs at all major traffic intersections in Dartmouth during the month of July. The Town will reuse the liter signs in 2012 to continue to reach a diverse audience. The Town continues to provide storm water general info/programs to the general public as well as the building/construction industry via notice with all construction contracts. The Town provided "Community Clean Up Day" in addition to "Hazardous Waste Day".	
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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 – New Permit
2-1 Revised	Storm Drain Stenciling	Planning, ConCom, DPW	Number of installed stormwater logos.	Town continued utilize DPW laborers to maintain and install new metal stormwater logos and tributary signage. Due to budget constraints the use of UMass college interns during the summer of 2012 was not possible.	New Permit to be issued in 2013
2-2 Revised	Existing Program Assistance	DPW, ConCom	Update of the NPDES Phase II Program to Town Boards	Staff continued ongoing review of applicable bylaws and regulations pertaining to storm water and continued to maintain tributary signs. The Town continued year 4 of a community clean up day consisting of multiple community groups, and support from Dunkin Donuts, and assistance from the DPW Highway Division. The 2013 Clean Up will be for the month of April, the Town will distribute free PAYT Bags to community groups and residents to assist in the clean up.	
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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 – New Permit
3-1	Mapping	DPW, ConCom	Coordination of data from Dartmouth BOH and DPW. Utilize Buzzards Bay National Estuary Program data and Stormwater Discharge Atlas	Continue to update mapping as required through the DPW Engineering Division and the Conservation Commission. Due to a lack of funding, the Town has halted additional effort on GIS drainage plan upgrades for 2012. Town plans to continue with Town wide storm water mapping under the new MS4 Permit to be issued in 2013. In the current year, the Town will utilize the Atlas of Stormwater Discharges in Buzzards Bay Watershed as the base drainage plan for the community.	Testing of water quality will be a requirement under the new permit to be issued in 2013.
3-2	Legal Prohibited – Enforcement	BOH, ConCom	Continued review and upgrading of existing stormwater related bylaws	The Board of Health continues to collect and review data identifying potential areas of illicit discharge. DPW crews perform sanitary	

Revised			DPW personnel have been directed to perform inspections on all SMH's and DMH's when ever the cover is opened. Inspections include condition of MH and evaluation of function to identify illicit connections.	inspections of all drainage structures during routine maintenance. DPW, Board of Health and Conservation Commission regulations have been reviewed to strengthen if required areas that prohibit illicit connections to storm drain systems. The Department of Public Works did not uncover any illegal connections to the storm drain system in Year 10. DPW installed a Vortec 9000 Unit in the Padanaram Harbor watershed to reduce TSS impacting the bay. This unit will reduce documented siltation of Apponagansett Bay. The Town anticipated the installation of storm water treatment facilities on Rogers Street in 2012. Unfortunately, the project was not funded by MassWorks. The water shed includes The City of New Bedford and the Town. The Town has reapplied for funding for this project through the Mass Works Infrastructure Program.	
3-3 Revised	Detection Plan	BOH,DPW	Water quality testing and monitoring.	The Town had granted an extension to the contract with UMass for the Turn the Tide Program. The Town is awaiting the Final Report for Apponagansett Bay and will utilize the document to guide future detection plan direction. The town continues to work with our partners UMass and the Loyd Center for Environmental Studies and on the build-out analysis as part of the final phase of the Turn the Tides Project.	

3-4	Awareness & Education	BOH, Planning	Continue to update the placement of Fact Sheets in Public Facilities, prepare and fund (2) two Household Hazardous Waste Days during this reporting period.	Fact sheets and Stormwater informational brochures have been obtained and displayed, two (2) Community Clean Up's and two (2) Hazardous Waste Days have been advertised and held at the DPW Highway Yard.	
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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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – New Permit
4-1 Revised	Stormwater Management	ConCom	Providing Stormwater Management Guidelines & Requirements	The Town continues to enforce storm water BMP's for private sector projects. Town continues the review and update of local bylaws and regulations as necessary.. Conservation Commission continues to inventory structural storm water technologies within the Town . Continued the review of standards for Stormwater related to the construction of residential and commercial developments.	New Permit to be issued in 2013
4-2 Revised	Stormwater Regulations	Planning Board	Review of Subdivision Regulations relative to stormwater control during construction.	Enforcement of subdivision regulations that prevent the release of residential lots for sale until all stormwater facilities have been constructed and are fully operational.	
4-3 Revised	Education Materials	DPW	Provide Stormwater Information to all contractors that have been awarded construction contracts with the Department of Public Works.	All contractors performing site work or utility work on significant size projects are provided with a Memorandum and wall guide to Planning & Implementing Erosion & Sediment Control Practices.	
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4a. Additions

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 – New Permit
5-1	Stormwater Management	ConCom	Enforcement of Town of Dartmouth's and Mass DEP's Stormwater Guidelines.	Ongoing review and monitoring of the current stormwater bylaws and regulations. The Town has a designated drainage consultant who is responsible for the review of all stormwater designs. The Town's Environmental Affairs Coordinator monitors all construction related activities.	New Permit to be issued in 2013
Revised					
5-2	Drainage Consultant	ConCom	Consistent Technical Review of Stormwater design and policy.	Consultant continues to provide technical input Conservation Commission pursuant to Stormwater Regulations and Bylaws. Consultant continues the review of all Notice of Intents involving the construction of drainage facilities and drainage calculations.	
Revised					
5-3	Subdivision Rules & Regulations	Planning	Enforcement of regulations pertaining to stormwater facilities being fully operational prior to release of lots.	Developers are aware that they must construct all drainage facilities, and provide fully operational system prior to the release of any lot for sale.	
Revised					

[illegible]

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 – New Permit
6-1	Employee Training	DPW	Provide employee training in conjunction with 40 CFR 112 program.	DPW provides staff training on Storm Water Good Housekeeping. The DPW has training videos for good housekeeping in municipal facilities. SPCC training will be performed in the spring of 2013 by the Director of Public Works to all field personnel on “Good Housekeeping Methods”. Examples of daily maintenance procedures and equipment inspections will be presented.	Director of Public Works to provide in house SPCC training in 2013.
Revised					
6-2	O&M Program	DPW	Implementation of O&M program designed to reduce and or eliminate the discharge of pollutants from various DPW facilities.	DPW Highway Division has purchased salt brine production equipment. In 2012, the Town continued with a salt brine pretreatment program that will reduce the volume of salt used for snow and ice operations. As noted, the Town has eliminated the use of road sand for	DPW will continue to equip snow and ice equipment with brine treatment equipment.

Revised					snow & ice operations. The new snow and ice procedures have dramatically reduced the volume of sand collected in catch basins and discharged to streams and the bay. Operators have ongoing training on the proper procedures for delivery of salt to roadway, The Town has purchased for a new vacuum sweeper. This new sweeper will supplement the existing two sweepers and will allow the Town to complete sweeping operations in a more timely manner. Staff monitors all exterior stored equipment for fluid leakage. Stormwater detention ponds at the Highway Division garage have been serviced and the remaining Highway Division Yard is swept clean of salt residues, the existing oil/gas separator has been fully serviced after the winter season in preparation for the new season	
6-3 Revised	Roadway Maintenance	DPW	Sweep all streets. Clean all catch basins annually.		The Town swept all primary roadways and a majority of secondary roadways. The addition of a third sweeper has improved street cleaning operations. The Town will service all Vortec Units with the Vac-All The Town has cleaned all catch basins in Town under private contract on an annual basis..	The Town will continue the complete sweeping of Town streets on an annual basis.
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6a. Additions

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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – New Permit
7-1 Revised	BMP's for TMDL Reduction	DPW	Implement BMP's for existing stormwater facilities..	The Umass Turn the Tides Project will establish TMDL's for the Town to obtain. The will continue to work closely with Umass in setting up the necessary programs to meet the expected TMDL limits. The Town continues to uses new Vacuum Truck for servicing stormwater facilities.	Awaiting outcome of Turn the Tides Apponagansett Bay Report and new Permit to be issued in 2013.
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7a. Additions

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7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

- The Town is in receipt of one final and one draft estuary studies from the UMass Turn the Tides project. The final report on the Paskemansett River was scheduled to be issued in July 2012, as on this date we have not received the Final Apponagansett Bay Report. Upon receipt of all reports, the Town will request a meeting with UMass, the Coalition for Buzzard's and the Loyd Center to discuss the report findings and recommendations. The Town granted an extension to the Contract in order to complete the project.
- The Town Board of Health and Department of Public Works continue to respond and inspect all potential sources of illicit discharge when applicable.
- The Town implemented a "Cigarette is Litter Prevention" campaign during July 2011. The program will continue in 2013. The program includes the installation of "cigarette litter is trash" posters that are placed at all major traffic intersections during the month of July. The Town also held the fifth annual Community Clean Up Day, in 2013, the month of April is declared clean up month with community groups working to collect litter.
- The Town installed a Vortec 9000 storm water unit to service a large watershed to the Padanaram Harbor. The Town has designed and applied for funding for the installation of a storm treat system to service a significant watershed to Clarks Cove, unfortunately funding from the MassWorks program was unsuccessful. The unit would have provided treatment to New Bedford and Dartmouth storm water on Rogers Street.
- The Coalition for Buzzards Bay, and the University of Massachusetts on the Turn the Tide Project is a commitment by the Town to protect Buzzards Bay and the contributing river bodies by restoring the health and vitality of Dartmouth's waters. The Apponagansett Bay Final Reports was to be submitted by July 2012, to date we have not received the final report.
- The DPW Highway Division has continued to maintain and replace damaged or missing storm water logo and tributary signs.
- The program continues to support the local estuary projects including the overall progress being made by the UMass Dartmouth School of Marine Science and Technology of the various brooks and ponds in the Town of Dartmouth.
- The DPW purchased a new vacuum street sweeper and additional salt brine equipment to reduce the impact snow & ice operations have on the environment, both items are operational, DPW will continue to install individual salt brine tanks on the remaining "sanders".

- Conservation Commission continues to provide guidance and direction in prioritizing the placement of structural storm water units in Town.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	
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)	
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	
Household Hazardous Waste Collection Days		

▪ days sponsored	(#)	
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	

Legal/Regulatory

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

Mapping and Illicit Discharges

Outfall mapping complete	(%)	
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	
Illicit discharges identified	(#)	

▪ days sponsored	(#)	
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	

Legal/Regulatory

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

Mapping and Illicit Discharges

Outfall mapping complete	(%)	
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	
Illicit discharges identified	(#)	

Illicit connections removed	(#)	
	(est. gpd)	
% of population on sewer	(%)	
% of population on septic systems	(%)	

Construction

Number of construction starts (>1-acre)	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	
Site inspections completed	(# or %)	
Tickets/Stop work orders issued	(# or %)	
Fines collected	(# and \$)	
Complaints/concerns received from public	(#)	

Post-Development Stormwater Management

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

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	
Total number of structures cleaned	(#)	
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.)		
Cost of screenings disposal	(\$)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	
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)	