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**Municipality/Organization:** Town of Franklin

**EPA NPDES Permit Number:** MAR041117

**MaDEP Transmittal Number:** W- 041238

**Annual Report Number  
& Reporting Period: No. 8: May 1, 2010-April 30, 2011**

## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

**Contact Person:** Robert Cantoreggi **Title:** DPW Director

**Telephone #:** (508) 520-4910 **Email:** rcantoreggi@franklin.ma.us

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:** Jeffrey D. Nutting

**Title:** Town Administrator

**Date:** 4/29/2011

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	Planned Activities – Next Permit Term
1A Revised	Recycling Education for Home Owners	DPW/Solid Waste Coord.	Distribute 3 times/year	A mailer was sent to residents on a quarterly basis. The mailer discussed proper waste disposal & recycling practices. The recycling section of the Town website was updated with additional information on recycling practices. In July 2010 the town moved to a single stream automated trash and recycling program. Since the inception of this program, a 27.1% increase in the recycling rate has been realized and there is a noticeable decrease in the level of roadside litter.	Continue to update website with additional information and educational materials. Increase recycling tonnage through public awareness campaigns. Outfit the recycling center with the ability to accept Styrofoam and toilets, sinks and bathtubs for recycling.
1B Revised	Education Information on the Web Site	DPW	Web Site Information developed and posted for year 2  Increase # of web site hits each year	The stormwater management/education web page was maintained and updated with information about the EPA “Sustainable Stormwater Funding Project” for the Upper Charles River communities of Bellingham, Franklin and Milford” .. Copies of the quarterly storm water management flyer were added to a town wide quarterly mailer. The hit counter added to the web page in Year 7 recorded an additional 406 hits by 04/29/2011.  The DPW web page continued to advertise rain barrels to residents, discussing the improved environmental and stormwater benefits. Detailed recycling and waste disposal information is posted on the Town’s recycling web page.	Continue to update web page with new topics and the progress of the Stormwater Management program as needed. Track the number of hits on the stormwater web page to gauge effectiveness.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8	Planned Activities – Next Permit Term
1C Revised	Education on Waste Disposal & Water Conservation	DPW/Solid Waste Coord.	Materials Available in all Public Buildings	<ul style="list-style-type: none"> <li>* Water conservation materials are displayed at the Administration Building.</li> <li>* Water Conservation Kits (toilet tank displacement bags, low-flow showerheads, leak detection tablets, faucet aerators) are available at the DPW.</li> <li>* Stormwater education materials were displayed at the Town Hall, High School, DPW Administrative Office and Senior Center</li> <li>* Recycling flyers are sent quarterly to residents</li> <li>* Water conservation information is broadcast daily on local cable channel during months of May through October</li> <li>* Mandatory water conservation notices were added to quarterly newsletter.</li> <li>* A continued mercury thermometer replacement program was implemented; residents can turn in their old mercury thermometer for a digital one.</li> <li>* Recycling facts are broadcast daily on the local cable channel year round</li> <li>* Educational information available on specific websites for stormwater management and recycling</li> <li>* Rain barrel sales were made available to residents in May 2010 and April 2011. The Town also made them available in September 2010 as part of a fundraising partnership with CRWA.</li> <li>* Phone and e-mail address provided for citizen inquiries (<a href="mailto:dpw@franklin.ma.us">dpw@franklin.ma.us</a>)</li> </ul>	Continue to make materials available at public buildings, Town events and post information on the Town's website. Make rain barrel and composter sales available two times a year.
1D Revised	Water Resource Information and Protection Signs	DPW	Five Signs Posted/Year beginning in year 3 Begin posting signs in year 4; post/maintain signs annually	<p>The DPW installed an additional 4 "Water Resource Area" signs at crossings for the Mine Brook, Beaver Pond and the Del Carte Water Resource Area.</p>	Evaluate additional locations for signs and coordinate with efforts under BMP 1F.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8	Planned Activities – Next Permit Term
1E	Public Education with Charles River Watershed Association	DPW Director, Town Engineer	Number of Coordinated Programs # attendees & audience	<p>The CRWA finished their “Building Blue” subwatershed project and coordinated with the town to provide public presentations to residents and officials on May 24, 2010. The announcement of the presentation and its findings were advertised in the local newspaper. The Town participated in a fundraising partnership with the Charles River Watershed Association (CRWA) in September 2010 for watershed improvement activities.</p> <p>The DPW Director made a presentation on the use of non-phosphorus fertilizers as part of the Charles River Municipal Phosphorus Reduction Program on February 17<sup>th</sup> in Lexington and on March 24, 2011 in Franklin. The March 24<sup>th</sup> presentation was also followed by a tour and question and answer session for some of the newly installed rain gardens in Franklin.</p>	Continue to coordinate public education efforts and pursue grant opportunities with the CRWA, as appropriate.

**1a. Additions**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8	Planned Activities – Next Permit Term
1F	Establish a “Green Team” at Franklin High School and Participate in Stormwater/Water Quality Improvement Projects	Franklin High School students, DPW	Monthly meetings, agenda, memos of actions and results	<p>The DPW continued to work with the Green Team. The Green Team also helped to coordinate and participate in Earth Day activities on April 16<sup>th</sup>. DPW staff and the Recycling Committee have been working with 2 schools to coordinate “trash-less lunch days”.</p> <p>DPW provided ongoing support to the U.S. EPA with respect to GIS data and information related to the storm drain system and impervious cover related to the “Sustainable Stormwater Funding Project”.</p>	Continue to coordinate with the Green Team in assisting the (BMP 2A).
1G	Open Data Sharing for Stormwater Infrastructure	DPW	Ongoing correspondence with regulatory agencies for data sharing	<p>DPW provided ongoing support to the U.S. EPA with respect to GIS data and information related to the storm drain system and impervious cover related to the “Sustainable Stormwater Funding Project”.</p>	Continue to share GIS and infrastructure data with regulatory agencies.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8	Planned Activities – Next Permit Term
1H	Classroom Stormwater Education	Town Engineer & DPW	# students and/or # classes & grades taught	As part of the ongoing s319 Grant project for Stormwater Retrofit Improvements (see also BMP 6H), the Town Engineer gave stormwater lectures to 2 middle school classes and 5 high school classes for a total of approximately 130 students. The presentations were well received by the students. DPW Staff have been working with a local Boy Scout Troop to install a rain garden on school grounds; construction is anticipated for summer 2011.	Evaluate additional classroom education opportunities. Finish design and install rain garden on school grounds. Work with high school science classes to integrate the rain garden into lessons on the water cycle and water pollution.
1I	Stormwater Newspaper Articles	DPW	# articles published, audience reached	The DPW was featured in articles in the Milford Daily News related to the “Sustainable Stormwater Funding Project” on numerous occasions throughout the year. There were additional articles focusing upon storm water presentations made within the Town.  Stormwater articles were published on the following dates: 8/4/2010, 8/18/2010, 10/21/2010, 11/23/2010, 12/5/2010, 12/7/2010 & 3/25/2011	Develop and publish articles for new topics on a regular basis.

## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8	Planned Activities – Next Permit Term
2A Revised	Storm Drain Stenciling	DPW	Average Ten Catch Basins/Year	20 storm drains were re-marked at locations downtown where they wore out over time or where there was new construction.	Continue to maintain and replace storm drain markers in Town. Solicit and involve local Youth Organizations (e.g., Green Team, Eagle Scouts).
2B Revised	Outreach Efforts with Charles River Watershed Association	DPW Director & Conservation	Number of Coordinated Programs	The Town of Franklin continued to work with CRWA on their Building Blue sub watershed restoration project. The goal of the project was to develop a conceptual plan for water quality improvements that can be applied to a specific downtown sub watershed. In the fall of 2010, 5 of the recommended structural BMPs that were identified during the project were installed as part of a road reconstruction project.	Coordinate public events during next permit term to increase public education and involvement.
2C Revised	Public Meetings to Encourage Volunteers	DPW, Recreation Department, Earth Day Committee (volunteer)	Meetings held with the Public Starting Year 2  One meeting annually	An Earth Day cleanup event was held on April 16, 2011 at Beaver Pond and approximately 200 people participated. The event focused on minimizing environmental impact, water conservation and stormwater management in conjunction with a large scale roadside litter cleanup and beautification effort.	Continue to solicit volunteers and advertise the Earth Day cleanup every year. Continue to incorporate stormwater topics with the cleanup event.

## 2a. Additions

2D	Community Assistance Program	DPW	Evaluation correspondence	Educational materials from SuAsCo, tailored to the Charles River, were incorporated into existing programs. The informative display was set up at various locations during the permit term: Town Hall, High School, DPW Administrative Office and Senior Center. The display was also available at the Earth Day Cleanup event on April 16, 2011.	Continue to develop program needs and incorporate materials into public education/outreach and participation/involvement BMPs, as appropriate.
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BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8	Planned Activities – Next Permit Term
2E	Establish a Stormwater Telephone Hotline	DPW	Record number of phone calls to hotline, copies of advertisements.	Stormwater issues are handled by DPW through calls to the main office as displayed on the stormwater website. Approximately 14 cases were addressed.	Record number of phone calls to hotline. Continue to establish means in which residents may acquire additional stormwater information.

### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8	Planned Activities – Next Permit Term
3A Revised	Stormwater Map Development	DPW Director, Town Engineer, Highway Dept GIS Manager	Completed Map Showing Collection System Outfalls	442 outfalls were previously mapped. The storm drain system map was updated to reflect the results of field inspections (see BMP 3D) in addition to ongoing efforts to incorporate the drainage network from existing subdivision plans. The drainage network is approximately 66% mapped and the DPW has developed detailed (200-scale) maps for future drainage assessments and asset management.	Continue to update the drainage map and GIS data with ongoing mapping efforts (e.g., BMP 3D). Continue to develop a detailed drainage data layer and begin to define drainage catchments based on this information.
3B Revised	Develop Non-Storm Water Discharge Ordinance	DPW Director	Ordinance Adopted by Town	A draft illicit discharge prohibition article under the existing stormwater bylaw was prepared and awaits presentation at an upcoming Town Council meeting.	Present illicit discharge article to the public at an upcoming Town Council meeting for final review.
3C Revised	Develop Illicit Detection Implementation Plan	DPW Director	Plan Developed	Outfall inspections were completed in accordance with the Town's Illicit Discharge, Detection & Implementation Plan (IDDE).	Continue with follow-up actions in accordance with the IDDE plan (see BMP 3D below).
3D Revised	Perform Dry Weather Outfall Assessments	DPW Director, consultant GIS Manager	Prioritized Areas and Number of Outfalls Assessed	30 outfalls in high priority areas were re-inspected and no obvious illicit discharges were observed. All 501 outfalls have been screened for illicit discharges.	Evaluate dry weather flows with respect to the updated water and sewer maps. Conduct additional water quality assessments at outfalls with dry weather flow, as appropriate.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8	Planned Activities – Next Permit Term
3E Revised	Develop Procedures for Removing Illicit Connections	DPW Director, Consultant	Procedures Developed and Number of Locations Identified	Procedures for the removal of illicit discharges were added to the IDDE plan (BMP 3C) and the legal mechanism is outlined in the IDDE article (BMP 3B).	Document the progress of removing any identified illicit discharges.

### 3a. Additions.

3F	Setup and Advertise a Hotline for Illicit Discharges	DPW	Log of Complaints and Action Taken.	Coordinated with BMP 2E, DPW handles stormwater issues through written records and calls to the hotline.	Keep log of complaints and action taken. Continue to establish means in which residents may acquire additional stormwater information.
3G	I/I and Sewer Rehab. Program	Town Engineer, DPW Director, Consultant	Prioritization plan and record of corrections	I/I and sewer rehabilitation activities continued. Flow metering was conducted at five locations throughout the sewershed, including the installation of a permanent meter at the downstream end of a primary collector line. Groundwater and rain gauges were also installed in an effort to collect better data. Smoke testing was conducted on 13,750 ft of sewer main. GPS was used to collect the location of 218 sewer manholes. 31 Service connections were repaired and 4 chimneys were sealed.	Continue I/I and sewer rehabilitation activities to repair infrastructure as funding allows.

### 4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8	Planned Activities – Next Permit Term
4A Revised	Ordinance Development for Waste Control	DPW Director, Town Engineer, Conservation, Planning, Consultant	Ordinance Adopted by Town  Draft bylaw at Town Meeting in year 4	Stormwater Management bylaws were adopted into the Town's regulations in 2007.	Continue to implement the stormwater bylaw in permit review and enforcement processes.



BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8	Planned Activities – Next Permit Term
4B	Formalization of Site Plan Review Procedures	DPW Director, Town Engineer, Conservation, Planning, Consultant	Site Plan Review Procedures Adopted by Town	This BMP has been incorporated into the work discussed under BMP 4A, as part of the stormwater bylaws.	Refer to BMP 4A.
Revised					
4C	Revised Ordinance to Address Storm Water Pollution	DPW Director, Town Engineer, Conservation, Planning, Consultant	Revised Ordinance Adopted by the Town	This BMP has been incorporated into the work discussed under BMP 4A, as part of the stormwater bylaw.	Refer to BMP 4A.
Revised					
4D	Best Management Practice Manual for Developers	DPW Director, Town Engineer, Conservation, Planning, Consultant	Handbook Completed and Adopted by Town  MA DEP Handbook on File	The stormwater bylaw references the MA DEP Handbook for erosion control requirements that are used to review future projects. The Department of Public Works in conjunction with the Department of Planning and Community Development began the preparation of a Best Development Practices Guidebook for Developers.	Continue to use the handbook for inspections and developer education and implement requirements under the stormwater bylaw. Finish and distribute the Best Development Practices Guidebook.
Revised					
4E	Formalization of Inspection Procedures	DPW Director, Town Engineer, Conservation, Planning, Consultant Construction Inspectors	Inspection Procedures Adopted by Town	The existing standardized checklist was used by the DPW for construction site inspections at 23 projects throughout the permit term.	Continue to utilize formalized inspection procedures and train staff as necessary.
Revised					

#### 4a. Additions.

4F	Establish a Procedure for the Receipt of Information Submitted by the Public	DPW Director, Town Engineer, Conservation	Record number of phone calls to hotline, copies of articles advertising the hotline.	The DPW generally receives calls related to stormwater and handles any problems that arise. This information is coordinated with BMP 2E.	Coordinate with BMPs 2E & 3F, continue to receive and record information by the public regarding construction sites.
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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	Planned Activities – Next Permit Term
5A Revised	Procedures for Long Term O&M	DPW Director, Town Engineer, Conservation, Planning, Consultant	Adoption of Procedures by Town  Draft bylaw at Town Meeting in year 4	Stormwater Management bylaws were adopted into the Town's regulations in 2007.	Continue to implement the stormwater bylaw and review operation and maintenance requirements.
5B Revised	Review Procedures for Post Construction Impacts	DPW Director, Town Engineer, Conservation, Planning, Consultant	Adoption of Procedures by Town	This BMP has been incorporated into the work discussed under BMP 5A. The Town previously developed a standardized checklist for review of projects subject to the stormwater bylaws.	No further action.
5C Revised	Best Management Handbook for Developers	DPW Director, Town Engineer, Conservation, Planning, Consultant	Handbook Completed and Adopted by Town  MA DEP Handbook on File Educational Flyers	The stormwater bylaw references the MA Stormwater Handbook that is used to review projects. The Department of Public Works in conjunction with the Department of Planning and Community Development began the preparation of a Best Development Practices Guidebook for Developers. The DPW office provides educational flyers related to proper stormwater management techniques.	Continue to use the handbook for review of BMP designs under the stormwater bylaw. Finish and distribute the Best Development Practices Guidebook.  Continue to distribute educational flyers related to stormwater management.

### 5a. Additions

5D	Establish a Procedure for the Receipt of Information Submitted by the Public	DPW and Conservation Planning	Record number of phone calls, and copies of letters and other correspondence.	The DPW generally receives calls related to stormwater and handles any problems that arise.	Coordinate record keeping program with the post-construction stormwater bylaw, track calls and records of enforcement.
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## 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	Planned Activities – Next Permit Term
6A Revised	Standard Operating Procedures	DPW Director/Division Heads	Ten Procedures Developed List of current O&M procedures	This BMP has been incorporated into the work discussed under BMP 6H. The work under BMP 6H was updated and the Town developed standard operating procedures (SOPs) for drainage system maintenance.	Incorporate the results of BMP 6H and implement the recommendations for pollution prevention and housekeeping. Adapt SOPs as appropriate to Franklin DPW.
6B Revised	Employee Training	DPW Director/Division Heads	Four Employee Training Sessions Annual training, attendance sheet and copy of program	DPW decided to provide directed training to new superintendants and staff on a one-to-one basis. Training included permit and record keeping requirements in addition to field and construction site visits.  The Town evaluated additional training programs and anticipates attending two formal training sessions.	Conduct training for the DPW, Highway, Water and Sewer Department employees and evaluate future training needs including site visits and field training.
6C Revised	Parking Lot and Road Sweeping	DPW Director/Division Heads	Schedule Developed and Areas Prioritized for Cleaning	Continued routine street sweeping program. All streets are swept once a year and the downtown area is swept twice a year. The previous purchase of a new street sweeper helped to maintain the cleaning schedules.	Continue existing practices for sweeping and enhance cleaning operations based on the availability of equipment and staff time. Consider a method to track sediment volumes and optimize sweeping routes and schedules.
6D Revised	Spill Response and Prevention	DPW Director/Division Heads	Procedures and Inventory Completed	Inspections and site activities were conducted in accordance with the 2008 SPCC Plan.	Follow the current SPCC Plan and target managers for hands on training.
6E Revised	Catch Basin Cleaning	DPW Director/Division Heads	Schedule Developed and Areas Prioritized for Cleaning	The Highway Department used the old Water Department vacuum truck to assist with catch basin cleaning.	Begin to evaluate appropriate cleaning frequencies and coordinate maintenance activities with BMP 6H.

6a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8	Planned Activities – Next Permit Term
6F	Municipal Facilities and Operations Evaluation	DPW & Consultant	Record of inspections, recommendations and improvements. Pollution prevention inspection checklist.	The previous municipal facilities and operations evaluation was updated in March 2011 based on the progress to address the recommendations, as well as current budget figures.	Continue to implement the recommendations of the updated evaluation.
6G	Low Impact Design for DPW Roadway & Drainage Projects	DPW Director, Town Engineer	Record of final or as-built plans and improvements.	Construction was completed for 5 Low Impact Stormwater Infiltration Systems and the design was completed on an additional 3 sites. (see also BMP 6H).	Additional projects and drainage improvements will be evaluated during the next permit round.
6H	BMP Evaluation and Identification of Needed Retrofits	DPW Director, Town Engineer, Consultant	Database of BMPs, owners, O&M requirements, inspection forms.	The Town focused on the retrofit design and construction of 5 BMP locations during the reconstruction of a roadway. 4 of the BMPs were sited on an elementary school and have been used as educational tools. Design was completed on 3 additional BMPs.  The town owned BMPs listed in the BMP database were updated with additional inspection data. The Town began developing standard operating procedures (SOPs) for drainage system maintenance.	Construct the 3 additional BMPs. Incorporate the results of the previous BMP evaluation into future evaluations for impaired waters (BMP 7A & 7B) and evaluate priority cleaning areas and retrofit opportunities.  Incorporate maintenance needs into existing operations as funding allows. Continue to monitor and update the BMP maintenance and retrofit database.
6I	Stormwater BMP Maintenance & Drainage System Upgrades	DPW	Record of cleaning activities, # structures cleaned annually	The highway department made repairs and conducted preventative maintenance on 34 Manholes and Catch Basins throughout the permit term. Drainage work was completed on Wachusett St during road reconstruction including the installation of 5 rain gardens. Design was completed on the Anchorage Rd reconstruction project.	Continue to make drainage improvements as funding is available. Incorporate the results of BMP 6H.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8	Planned Activities – Next Permit Term
6J	Make Annual Household Hazardous Waste Collections Available to Residents	DPW & Board of Health	Ongoing resident participation, amount of materials collected	A collection event was held at the Town Hall on October 2, 2010 and 8,754 pounds of waste was collected. The Town has a reciprocal agreement with 8 neighboring communities that allows residents to participate in Household Hazardous Waste Collections on multiple dates.	Continue to hold an annual event and renew the reciprocal agreement with neighboring communities for additional event opportunities. Evaluate methods to track participation and the amount of materials collected.

**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	Planned Activities – Next Permit Term
Revised					

**7a. Additions**

7A	Evaluate Data and TMDL for the Charles River and Develop a Plan to Improve TMDL Waters	DPW, Conservation, Consultant	Copy of Water Quality Improvement Plan	As discussed in previous Annual Reports, the Town hired a consultant to develop a strategy to meet the TMDL considering existing actions under the Phase II stormwater management program and available resources.  This effort was put on hold and the Town began participating in the EPA's "Sustainable Stormwater Funding Project" and a recommended approach to address the requirements of the TMDL is still under development. This information will be evaluated to assist in the development of an appropriate and feasible approach to meet the new permit requirements related to TMDLs and WLA.	Evaluate the results of the "Sustainable Stormwater Funding Project", the previously developed TMDL strategy, the requirements of the final Phase II and RDA Permits and incorporate this information into the SWMP Update following the permit re-issuance.
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BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8	Planned Activities – Next Permit Term
7B	Implement Water Quality Improvement Plan for discharges to 303(d) waters.	DPW & Conservation	Photographs, logs, and BMP descriptions for completed efforts and water quality improvements	Refer to BMP 7A.	This will begin upon development of the implementation strategy and as resources become available.

### 7b. WLA Assessment

As discussed in the Year 6 annual report, two TMDLs have been finalized for the Charles River Basin. These include the Total Maximum Daily Load for Nutrients in the Lower Charles River Basin, Massachusetts CN 301.0, June 2007 and the Pathogen TMDL for the Charles River Watershed, CN 0156.0, January 2007. The Town of Franklin hired a consultant to review the TMDLs and provide recommendations on the additional steps needed to comply with the TMDLs. This review identified some concerns that will be considered in the development of the implementation strategy. Adding to the concern for developing an appropriate implementation strategy, the Town's consultant reviewed the draft TMDL for Nutrients in the Upper/Middle Charles River, CN 272.0, September 2009. Comments related to the calculation of phosphorous load, supporting data and implementation strategy were submitted to MassDEP.

At the beginning of Year 8, the Town reviewed the requirements of the draft Phase II Permit for North Coastal Watersheds and considered previous work/ progress under the current program towards meeting these permit requirements and the water quality objectives outlined in the TMDLs. A significant amount of effort has been put forth to develop an appropriate and cost-effective program to meet the permit requirements of the Phase II and RDA programs, as part of ongoing work under EPA's "Sustainable Stormwater Funding Project" for the Upper Charles River communities of Bellingham, Franklin and Milford". The Town has been actively participating in this project and a recommended approach to address the requirements of the TMDL is still under development. Additionally, a key element of this study is to develop a potential approach to fund the future stormwater program. Once this study is completed, the Town anticipates that this information will be used to assist in the development of an appropriate and feasible approach to meet the new permit requirements related to TMDLs and WLA.

In the meantime, the Town of Franklin continues to actively pursue water quality improvement projects as resources allow and in conjunction with other infrastructure projects. Additionally, the Town continues to update information related to infrastructure (e.g., drainage mapping, sanitary sewer I/I investigations) that provide a better data for future water resource planning activities. Examples of these efforts and specific water quality improvement projects were outlined previously in this report.

**Part IV. Summary of Information Collected and Analyzed**

- Number of outfalls screened for illicit discharges: 30 during the permit term, 501 total
- 200 residents participated in Earth Day event, 60 of which were students from local schools.
- 130+/- Students in middle & high school received stormwater lectures as part of the s319 grant project.

**Part V. Program Outputs & Accomplishments (OPTIONAL)**

**Programmatic**

Stormwater management position created/staffed	(y/n)	Yes
Annual program budget/expenditures	(\$)	

**Education, Involvement, and Training**

Estimated number of residents 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.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	1
▪ community participation	(%)	
▪ material collected	(tons or gal)	8,754 lbs.
School curricula implemented	(y/n)	Y*

\*The Town does not have a specific curricula established, but DPW coordinates with the Franklin High School "Green Team" for specific projects and educational opportunities, as well as middle school classrooms to provide occasional stormwater lectures. Several rain gardens have been constructed at public schools and serve as stormwater demonstration projects for students. Additionally, DPW works with local Boy Scouts for specific activities such as storm drain stenciling.

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

**Mapping and Illicit Discharges**

Outfall mapping complete	(%)			100%
Estimated or actual number of outfalls	(#)			501
System-Wide mapping complete	(%)			66%
Mapping method(s)				
▪ Paper/Mylar	(%)			
▪ CADD	(%)			
▪ GIS	(%)			65%
Outfalls inspected/screened	(# or %)			501
Illicit discharges identified	(#)			0
Illicit connections removed	(#)			0
	(est. gpd)			
% of population on sewer	(%)			80
% of population on septic systems	(%)			20



**Construction**

Number of construction starts (>1-acre)	(#)	0
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 \$)	
Complaints/concerns received from public	(#)	

**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)	Unknown

**Operations and Maintenance**

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1
Total number of structures cleaned	(#)	5,200
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 <sub>2</sub> % MgCl <sub>2</sub> % CMA % Kac % KCl % Sand	20:80 sand/salt mix
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)	Yes
Storage shed(s) in design or under construction	(y/n)	
*Salt is stored in two sheds to provide adequate cover of all materials.		