



City of Fall River
Massachusetts
Department of Community Utilities
WATER • SEWER

WILLIAM A. FLANAGAN
Mayor

TERRANCE SULLIVAN
Administrator

Municipality/Organization: City of Fall River

EPA NPDES Permit Number: MA0100382

Mass DEP Transmittal Number: W-040761

NPDES Phase II Small MS4 General Permit
Year 8 Annual Report
(April 1 2010-March 31, 2011)

Part I. General Information

Primary Contact Person: Lauren Curran **Title:** Stormwater Manager

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Mailing Address: 1979 Bay Street, Fall River, MA 02724

Secondary Contact Person: Charles Boulay **Title:** IPP Coordinator

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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: Lauren Curran

Printed Name: Lauren Curran

Title: Stormwater Manager

Date: April 28, 2011

Signature: Charles F. Boulay

Printed Name: CHARLES F BOULAY

Title: INDUSTRIAL PRETREATMENT COORDINATOR

Date: APRIL 28, 2011

Part II. Self-Assessment -- Year 8

In March 2011 the FRSC was finally able to fill the Stormwater Manager position. The new SW Manager is Lauren Curran of Veolia Water. This is a contract position 100% dedicated to stormwater & drainage issues including mapping/GIS. The position had been planned for several years but had remained vacant due to budget constraints.

Immediately after being hired, the SW Manager began digitizing the drainage system from the limited number of plans available. She also is in the process of developing a comprehensive field survey program in order to collect GPS data on all components of the un-mapped systems. Mapping of the drainage system has been a challenge due to a lack of plans, only one GIS Position (in the Planning Dept.) who is utilized by all City Departments, and no one to collect data in the field. **With the addition of the SW Manager position we will make significant mapping progress in Year 9.**

FRSC central staff is still only 3 persons working a reduced hours 4-day week due to severe budget cuts imposed on all City Departments. This has again resulted in a lack of manpower, time, and money causing the City to not complete some of its goals for Year 8. We fell a little short in the formulation of some new regulations and having the staff to monitor/enforce the said regulations. **We have done well on all physical aspects of the SW Permit Program.**

Funding for the SW Program continues to be a struggle. Along with the fiscal constraints that most Cities & Towns are experiencing, there is political pressure to eliminate/reduce the Stormwater Fee (which started 7/1/08) and to reduce the Sewer Rate.

WATER QUALITY and WILDLIFE HABITAT in MT. HOPE BAY, the TAUNTON RIVER, and the QUEQUECHAN RIVER has MEASURABLY IMPROVED as a DIRECT RESULT of the FRSC \$185 MILLION CSO ABATEMENT PROJECT and IMPROVED O&M of DRAINAGE & SEWER SYSTEMS!

Shellfish beds in surrounding towns have remained open during Year 8 in dry weather. They were allowed to re-open during Year 7 after being closed for 30 years or more.

With the CSO Tunnel and the Cove St. Screening & Disinfection Facility in full operation, we are now monitoring the resultant flows & water quality. This information will determine the limits of additional Sewer Separation and Screening & Disinfection Facilities that are planned to start in 2012. **These future projects will continue to improve receiving water quality!**

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)	Planned Activities
1-1	SW article/brochure made available to public.	Conservation Commission	Develop/select article/brochure & make available at Library & City Hall.	Brochure made available at Library and City Hall.	Develop/select an updated brochure to be made available at Library and City Hall.
1-2	Update City Website to include information on SW management.	Conservation Commission	City Website updated to include SW management issues.	Website is in the process of being updated.	Continue to update City Website with SW information.
1-3	Continue to sponsor annual Shoreline Cleanup.	Conservation Commission	Hold City sponsored Cleanup Days.	A Citywide park cleanup was held on May 22, 2010. In addition four neighborhood cleanups took place in May and June of 2010. These cleanups included the areas surrounding Cook Pond and Sandy Beach.	A Citywide park cleanup day is scheduled for April 30, 2011. The City will coordinate with Clean the Bay in an effort to remove large debris from the Mount Hope Bay and Taunton River starting in April 2011. Neighborhood Associations also have 5 Cleanup Days scheduled between May and June 2011.
1-4	Presentations/Meetings on SW management related issues to be given to schools or organizations in the City.	Conservation Commission/Sewer Commission	Presentation to be given to at least one group or school annually.	Local high school environmental science and engineering students were presented with information on stormwater permits and CSOs and were also given a tour of the wastewater treatment facility.	Continue to give at least one presentation on SW management to schools and organizations annually.
1-5	Educate dog owners about picking up dog waste.	Sewer Commission	Pet waste fact sheets developed and distributed with dog registrations.	Fact sheet developed and distributed.	Continue to distribute fact sheet with dog registrations.

1-6	Install and maintain signs for pet waste cleanup and SW management at parks and schools	Parks Dept/School Dept	Install signs at parks and schools; inspect/maintain signs.	Signs have been installed & maintained at 31 cemeteries, parks, playgrounds, & schools by the Park Department. Additionally all parks, playgrounds, and ball fields have multiple dog bag dispensers and signage. Cemeteries have no dogs allowed.	Park Department to continue to inspect and maintain signs. A dog park is scheduled to open in Year 9.
1-7	Staff a table w/SW info at annual Earth Day event if held.	Conservation Commission/Sewer Commission	Collect materials; staff table and distribute at Earth Day event; brochures distributed.	No Earth Day event held this year.	Continue to staff table if event is held. Also update City website with stormwater information for residents during the week of Earth Day.

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
2-1	Comply with state public notification guidelines (MGL Ch 39 Sect. 23B).	City Clerk	Post notices of upcoming meetings as required by state law.	Notices and agendas are posted in designated locations: City Clerks Bulletin Board & Public Works Dept.	Continue posting notices for all public meetings per MGL.
2-2	Stencil catch basins with don't dump message.	Department of Public Works	Stencil a minimum of 25 CB's per year in year with priority given to those discharging to sensitive areas (wetlands, ponds, rivers.)	Veolia Water stenciled 133 catch basins in Year 8.	Continue stenciling annually.

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
3-1	Conduct dry weather outfall screening.	Sewer Commission	The 2 nd round of screening was done in yr 5. Number of outfalls screened.	Whenever we are working near any outfall we screen it for dry weather discharge. An illicit connection was found going into the Cove Street CSO and eventually into the Taunton River. The work to connect the property to the sanitary sewer was started in March 2011 and will commence in April 2011.	Conduct 3 rd round of dry weather screening and sampling in April 2011. Samples will be tested for the following parameters: temperature, pH, chlorine, conductivity, surfactants, ammonia and E.coli or enterococcus.
3-2	Continue to update the GIS map of the SW Collection System (CS).	Sewer Commission/ Planning Dept	Update the GIS SW Collection System mapping at least annually.	The Planning Dept. has been updating the GIS. The Stormwater Manager has taken over the role of updating the GIS as of March 2011 and begun a major effort to locate and map all components of the drainage system.	The Stormwater Manager will continue to develop the stormwater system GIS layer. Local community college students are planning to assist in the mapping of the system as part of their coursework.
3-3	Develop & implement a plan to identify & remove non-SW discharges from the MS4.	Sewer Commission	Number of illicit connections investigated, found, & removed. Prioritize outfalls for investigation. Locate and remove any illicit connections within 2 yrs of screening.	Investigations continue at all CCTV inspections and complaints. The only contamination detected was as discussed in 3-1. This is probably due to the fact that most of the city is a combined system.	Dry weather outfall screening and sampling will be conducted to help identify any non-SW connections. Continue to look for any signs of illicit connections when doing field work and follow up on any complaints.

<p>3-4</p>	<p>Investigate if any twin invert (TI) manholes are in the separate SW system.</p>	<p>Sewer Commission</p>	<p>Review all SW plans for TI's in yr 2. Evaluate TI's in yr 3. Corrective plan in yr 4. Implement in yr 5.</p>	<p>Only 2 TI MH's found. Lowell St. and Quequechan St. were connected to the CSO diversion structures at those locations as part of our \$185 million CSO Project in Year 6.</p>	<p>Field crews will continue to be on the lookout for any TI's when in the field and when reviewing plans. Corrective actions will be scheduled for any TI's that are found.</p>
<p>3-5</p>	<p>Develop bylaw prohibiting non-SW conns. to the MS4, access to search for illicit connections and requires removal of illicit conns.</p>	<p>Law Department/ Sewer Commission</p>	<p>Draft bylaw in yr 2; submit to City Council in yr 3 and thereafter until passed.</p>	<p>New stormwater ordinance and regulations approved and adopted by City Council in December 2009.</p>	<p>Completed.</p>
<p>3-6</p>	<p>Develop bylaw to require inspection of new construction for proper conn. to SS.</p>	<p>Law Department/ Sewer Commission</p>	<p>Draft bylaw in yr 2; submit to City Council in yr 3 and thereafter until passed.</p>	<p>Existing bylaw/ordinance requires inspection of new construction for proper connection to sanitary/combined sewer.</p>	<p>Completed.</p>

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
4-1	Develop Construction Site Erosion & Sediment Control bylaw for sites > 1 acre.	Law Department/Sewer Commission/Planning Department	Draft bylaw in yr 2; submit to City Council in yr 3 and thereafter until passed.	Modifying similar bylaws from other jurisdictions.	Submit to City Council.
4-2	Require developers/contractors to submit monthly erosion & sediment control inspection reports to City for sites > 1 acre.	Planning Department	Develop procedure for receiving & reviewing monthly reports in yr 3; require report submittals in yr 4 and thereafter.	Currently no manpower to review and enforce.	Finish developing procedures and require submittals when staffing becomes available.
Revised		Building Inspector/Planning Department			
4-3	Review site plans (>1 AC) for SW impacts, including adequate erosion/sediment controls.	Planning Department	Develop protocol for reviewing plans (including training) in yr 2; begin reviews in yr 3.	All Site Plans are being reviewed without the formal protocol.	Continue reviewing plans.
Revised		Building Inspector/Planning Department			

4-4	Consideration of public input for sites disturbing 1 > AC.	Planning Department	Allow public review & comment period and have signs w/phone # posted at construction site in yr 3 and thereafter.	This is only done for sites that come under the jurisdiction of the Conservation Commission.	Post phone number at each construction site for comments or complaints.
Revised		Building Inspector/Planning Department			

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
5-1	Develop a bylaw to apply Performance Standards 2, 3, 4, 7, & 9/3 of MSP to sites disturbing >1AC.	Law Department/ Sewer Commission	Develop bylaw & present to City Council.	Budget cuts have not allowed for the manpower to review and enforce.	Finish bylaw and present to Council when staffing becomes available.
Revised		Law Department/ Planning/Building Inspector			
5-2	Specify a SW BMP manual in bylaw to be used for consistent design & performance standards.	Planning/Engineering/ Conservation Commission	Specify a SW BMP manual to be included in the bylaw. MA DEP/CZM “Stormwater Management Volume 2: Stormwater Technical Handbook,” March 1997 was selected in yr 1.	Completed.	Completed.
5-3	Ensure long-term maintenance of structural BMPs.	Law Department/ Sewer Commission	Include provisions in the bylaw requiring developers to submit thorough specs for BMPs & provide maintenance funding. Present to City Council and implement when/if approved.	Provision for contractors to provide maintenance funding is not politically feasible.	We have to eliminate the provision for developer funding due to political considerations.

Revised		Law Department/ Planning/Building Inspector			
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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 (Reliance on non-municipal partners indicated, if any)	Planned Activities
6-1	Employee Training program.	DPW/Sewer Commission/Parks Dept/Water Dept	Sewer, Water, DPW, & Parks field & maintenance staff shall receive at minimum one SW related training course per 5 yr permit (# or % trained/yr).	Training with the stormwater training video was continued. Sewer and water treatment employees received training. Water distribution and DPW are next on the schedule.	Continue with second 5 year training cycle.
6-2	Continue street & parking lot sweeping	Department of Public Works	All municipal parking lots & streets swept in spring, daily sweeping of commercial areas thru out year (tons removed).	The Department of Public Works conducts street sweeping. They reported annual sweepings (weighed at the landfill) of approximately 800 tons for year 8.	Continue required street sweeping and have DPW compile tonnage.
6-3	Storm drain maintenance.	Sewer Commission	Goal to clean all basins (≈ 5,000) at least once every 3-4 years (# cleaned).	Veolia Water reported that 2,017 catch basins were cleaned and over 1,335 tons of grit removed from catch basins and drain/sewer lines in year 8. In addition 92 catch basins were repaired.	> 1,500 catch basins cleaned
6-4	Evaluate street sweeping & catch basin cleaning equipment.	DPW/Sewer Commission	Annual evaluation of street sweeping and collection system cleaning equipment for improvement or replacement.	Preventative and scheduled maintenance took place for the Collection System equipment which resulted in approximately \$35,000 in repairs/maintenance. The DPW began the year with 3 working street sweepers, but currently is down to 1 as it was too expensive to repair the other 2.	Continue ongoing equipment evaluations. DPW is seeking funds to replace the 2 older sweepers that are off line.

6-5	Continue roadway-deicing procedures.	Department of Public Works	Calibrate equipment as needed, but at least once per yr. Keep salt in a covered facility. Maintain records of amount & type of deicers used annually.	Equipment calibrated annually. Salt stored in dome/shed. In Year 8 11,000 tons of salt and less than 25 cubic yards of sand were used by the FRDPW.	Continue practices and procedures as outlined herein.
6-6	Continue spill prevention & response measures at municipal facilities.	DPW/Sewer Commission/Water Dept	Continue training Sewer, Water, DPW & Parks workers on spill prevention & response annually. Update Spill prevention & response plan annually.	Spill prevention and response training continued in Year 8. Facilities reported that plans were updated.	Continue training and update spill prevention and response plan.
6-7	Maintain hazardous materials inventory.	DPW/Sewer Commission/Water Dept	Continue to maintain an inventory of hazardous waste & materials that could contaminate SW to aid in the management of their use (Sewer, Water, DPW, Parks).	Each Department maintains their respective inventories.	Continue to maintain inventories.
6-8	Minimize impacts from vehicle maintenance.	DPW/Sewer Commission/Water Dept	Continue to minimize impacts from vehicle maintenance thru training and proper hazardous materials management & use reduction. Continue to limit maintenance of vehicles to the inside of the respective maintenance facilities or other similarly contained areas.	Training ongoing, hazardous materials tracked, and regular maintenance restricted to inside of facilities.	Continue practices and procedures as outlined herein.

6-9	Minimize impacts from vehicle washing.	DPW/Sewer Commission/Water Dept	Continue to minimize impacts from vehicle washing by washing inside maint. Facilities or where water drains to sanitary/combined sewer systems.	All maintenance facilities are located on combined sewer systems. No wash water goes to any separate drainage system.	Continue practices and procedures as outlined herein.
6-10	Park & landscape maintenance.	Parks Dept	Train staff to minimize application of herbicides, pesticides, & fertilizers by end of yr 2. Keep records of amounts used thereafter.	Park Department reports that it has discontinued use of any and all herbicides, pesticides, and fertilizers prior to Year 6.	Minimize the use of and maintain records of any herbicide, pesticide, or fertilizer if it is ever used in the future.
6-11	Continue tree planning & maintenance program.	Parks Dept	Continue practice of planting about 100 trees per yr. and replacing trees that have been cut down. Keep records of # of trees planted.	City Departments, The Fall River Street Tree Planting Program and other affiliated groups planted approximately 100 trees in Year 8.	The Trustees of Reservations will host a tree planting day on April 16, 2011. Atlantic White Cedar trees will be planted as part of a cedar swamp restoration project. The Fall River Street Tree Planting Program will plant approximately 60 trees.
6-12	Hold an annual Household Hazardous Waste Collection Day.	Department of Public Works	Hold an annual Household Hazardous Waste Collection Day once per yr.	The annual Household Hazardous Waste Collection Day was held April 24, 2010.	The City in conjunction with Allied Waste is planning the annual Household Hazardous Waste Collection Day for May 7 th at the landfill.
6-13	Continue to accept waste motor oil, batteries, & other items through regular drop off hours at the DPW garage.	Department of Public Works	Maintain regular drop off hours for waste motor oil, batteries, and other items at the DPW garage throughout the permit term for Fall River residents.	City residents can drop off paint (paint, paint thinner, varnishes and stains) from May – October. Oil can be dropped off the first Friday and Saturday of the month free of charge. Other waste items may be dropped from 7-3, Monday – Friday and between 8-12 on Saturdays.	Continue program as delineated herein.

6-14	<p>Continue enforcement of pet waste pick-up ordinance & frequent trash barrel emptying to encourage proper disposal.</p>	<p>Health Department/Park Department</p>	<p>Reduce complaints (if any) of pet waste in public areas by continuing to enforce the pet waste pick-up ordinance and empty trash barrels in public areas frequently.</p>	<p>Enforcement & trash pickup was continued. The Animal Control division enforces the ordinance and cites for failure to remove animal waste. It is staffed with 3 full-time Animal Control Officers, open 8AM-4PM, 7 days a week.</p>	<p>Animal Control Division will continue to enforce the ordinance. The Park Dept. will continue with frequent trash pick-ups at parks and playgrounds. The DPW will be responsible for picking up other public area trash receptacles. In addition, the City has selected a park to be designated as a dog park which will be opening around June 2011.</p>
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7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>

Not Applicable. TMDL's have not been developed for any of the water bodies in Fall River.

Part IV. Summary of Information Collected and Analyzed

None available at this time.