



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

MassDEP Transmittal Number: W-040761

Annual Report Number Year 9
& Reporting Period: April 1, 2011 – March 31, 2012

NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2012)

Part I. General Information

1.

Contact Person: Lauren Curran Title: Stormwater Manager

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2.

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: 4-27-12

Signature: Charles F. Boulay

Printed Name: CHARLES F BOULAY

Title: IPP COORDINATOR

Date: 4-27-12

Part II. Self-Assessment – Year 9

In Year 9, the City of Fall River made significant progress with the City's stormwater management program. The Fall River Sewer Commission (FRSC) filled the Stormwater Manager position in March 2011 with Lauren Curran of Veolia Water. Ms. Curran has been 100% dedicated to issues related to the stormwater system including mapping of the entire stormwater collection network. Significant progress was made during Year 9 on the City's GIS map of the stormwater system. The Stormwater Manager digitized the drainage system from as-built and other record plans and has been conducting field surveys in which GPS data and attribute data is collected in the field on components of the stormwater system. The system mapping includes catch basins, manholes, pipes, open channels, outfalls and stormwater ponds. As part of the field survey program stormwater assets are inspected and any potential illicit connections are investigated as needed. Water quality sampling was conducted at the six major storm drainage watersheds in Year 9 and dry weather outfall screening is conducted as part of the GPS field survey program.

The Stormwater Manager and other FRSC staff have been working to stay up to date with stormwater management strategies and regulations. They have attended several seminars and workshops related to stormwater management, low impact development and permit compliance including the NEWEA CSO/Stormwater Seminar and an EPA GPS Mapping Workshop.

The City has also begun to move forward with the single stream recycling program which has already increased recycling by more than 10% in areas of the City where the program was piloted. The program is expected to expand citywide in Year 10. The City Council also voted to increase littering fines in the City to the maximum fine allowable under state law.

The Massachusetts Audubon Society and Taunton River Watershed Alliance submitted a proposal for an Urban Waters grant to work with the City on a stormwater management public education and outreach program. The Audubon Society and Taunton River Watershed Alliance have also been working in conjunction with the FRSC staff and the Stormwater Manager to develop an educational and informative stormwater presentation that initially will be presented to the City's Sewer Commission and aired over a local cable access channel and then presented to local neighbor groups. In addition the Taunton River Watershed Alliance will begin a volunteer water quality program in the City during Year 10. A training session was held in March 2012 for volunteers interested in participating in the program at Bristol Community College.

The addition of the Stormwater Manager and the return to a five day work week for the FRSC staff have allowed for progress to be made with the drafting of new regulations. In previous years reduced hours due to budget cuts have hindered progress in this area. Review of drafts by the City Council and finalized regulations are expected in Year 10.

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 9 (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.	Brochures and a new stormwater bookmark were 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.	Draft of website has been developed and is currently under review.	Finalize and update the City website with stormwater information.
1-3	Continue to sponsor annual Shoreline Cleanup.	Conservation Commission	Hold City sponsored Cleanup Days.	The City coordinated with Clean the Bay to remove large debris from the Mount Hope Bay and Taunton River in April 2011. A Citywide park cleanup was held on April 30, 2011. In addition five neighborhood cleanups took place in May and June of 2011. These cleanups included areas around the Copicut Reservoir, Steep Brook, Cook Pond and Sandy Beach. Also the City Council voted to raise littering fines.	A Citywide park cleanup day is scheduled for April 28, 2012. Neighborhood Associations also have 5 Cleanup Days scheduled between May and June 2012.

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.	The City's Administrator of Community Utilities presented to a neighborhood association on the City's stormwater system, drainage issues and stormwater related maintenance. In addition as part of a collaborative water quality monitoring project between the City and the Taunton River Watershed Alliance a water quality monitoring training course was held to prepare volunteers interested in participating in the water quality monitoring program in Fall River planned to kickoff early in Year 10	Continue to give at least one presentation on SW management to schools and organizations annually. Present to Sewer Commission and neighborhood associations on stormwater issues and management in conjunction with Taunton River Watershed Alliance/Mass Audubon. Air presentation on local television channel. Students will be visiting the wastewater treatment plant for a tour and for information about wastewater and stormwater in April 2012.
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. Also a dog park opened during the summer of Year 9.	Parks Department to continue to inspect and maintain signs.
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. Stormwater education document developed and made available at City Hall.	Continue to staff table if event is held. Also update City website with stormwater information for residents during the week of Earth Day. Coordinate with Durfee High School's Green Team for a storm drain stenciling project the week of Earth Day 2012.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (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 89 catch basins in Year 9.	Continue stenciling annually. Durfee High School's Green Team will be volunteering to assist storm drain stenciling in April 2012.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (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.	Third round of dry weather screening and sampling was conducted. Samples were taken from water bodies receiving stormwater discharge from one of the five major drainage areas identified within the City. Whenever we our working near any outfall we screen it for dry weather discharge.	Continue to monitor and screen outfalls during dry weather.
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 SW collection system GIS is continuously being updated from historical record plans and field surveys. Bristol Community College students have assisted in the system mapping as part of their coursework.	Continue to update the Stormwater GIS map.

<p>3-3</p>	<p>Develop & implement a plan to identify & remove non-SW discharges from the MS4.</p>	<p>Sewer Commission</p>	<p>Number of illicit connections investigated, found, & removed. Prioritize outfalls for investigation. Locate and remove any illicit connections within 2 yrs of screening.</p>	<p>Routine system inspections for illicit connections are conducted in conjunction with catch basin cleaning and GPS field surveys. Any suspect connections are investigated. All complaints are investigated to determine cause and confirm that no illicit connection is present. CCTV inspections, dye testing and water quality testing are conducted as needed in order to identify illicit connections.</p> <p>An illicit connection investigation was conducted on Graham Road where a pipe was discharging into a grass swale. Sampling and a site inspection confirmed that the pipe was draining stormwater from a low lying area of a nearby parking lot to the swale in front of the property. A sanitary line on Friendship Street overflowed into an unknown sewer overflow chamber connected to a drain line as a result of a blockage from rocks and debris. The blockage was cleared and the drain line in the manhole was blocked off to prevent further discharge into the drain line.</p>	<p>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>
<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>

3-5	Develop bylaw prohibiting non-SW conns. to the MS4, access to search for illicit connections and requires removal of illicit conns.	Law Department/ Sewer Commission	Draft bylaw in yr 2; submit to City Council in yr 3 and thereafter until passed.	New stormwater ordinance and regulations approved and adopted by City Council in December 2009.	Completed.
3-6	Develop bylaw to require inspection of new construction for proper conn. to SS.	Law Department/ Sewer Commission	Draft bylaw in yr 2; submit to City Council in yr 3 and thereafter until passed.	Existing bylaw/ordinance requires inspection of new construction for proper connection to sanitary/combined sewer.	Completed.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (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.	A comprehensive review of bylaws from other jurisdictions was completed and a draft bylaw was developed. The draft is currently under review.	Finalize draft bylaw and 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.	Procedures were drafted in conjunction with the drafting of the construction site erosion and sediment control bylaw and are currently being reviewed.	Finalize procedures and submit to City Council with draft bylaw. Require submittals when erosion and sediment control bylaw is finalized.
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.	Site Plans are being reviewed without the formal protocol.	Continue reviewing plans and develop standard protocol for 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 9 (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.	Draft bylaw has been developed and is currently under review.	Finish bylaw and present to Council.
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 9 (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. Wastewater, water treatment and water distribution employees received training. DPW employees 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 864 tons for year 9.	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 1,735 catch basins were cleaned and over 868 tons of grit were removed from catch basins and drain/sewer lines. In addition 62 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 catch basin cleaning equipment which resulted in approximately \$15,500 in repairs/maintenance. The DPW is currently down to 1 street sweeper due to high maintenance/repair costs. The DPW and City Council met to discuss purchasing new street sweepers.	Continue ongoing equipment evaluations. The DPW will purchase new street sweepers if funding is available.
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 9 approximately 2,500 tons of salt and 600 tons 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 9. 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 minimizing 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 is ever used in the future.

6-11	Continue tree planting & 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.	The friends of Oak Grove and the Fall River Street Tree Planting Program planted 52 trees during Year 9. The Trustees of Reservations planted 105 Atlantic White Cedars in the Copicut Woods. The City Council also voted on a tree ordinance revision which will promote, protect and maintain urban forestry.	The Trustees of Reservations will host a tree planting day on April 28, 2012. 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. In addition the City has several events planned for Arbor Day including an educational program and fundraiser to help plant trees in the City during April and May 2012.
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 City in conjunction with Allied Waste held the annual Household Hazardous Waste Collection Day on May 7, 2011.	The City in conjunction with Allied Waste is planning the annual Household Hazardous Waste Collection Day for May 19 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 on the first Friday and Saturday of the month. Oil can be dropped off the first Friday and Saturday of the month free of charge year round. Other waste items may be dropped from 7-3, Monday – Friday and between 8-12 on Saturdays.	Continue program as delineated herein. The City plans to expand its single stream recycling and automated trash collection program Citywide during Year 10.
6-14	Continue enforcement of pet waste pick-up ordinance & frequent trash barrel emptying to encourage proper disposal.	Health Department/Parks Department	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.	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. In addition, the City opened its first dog park in summer 2011.	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.

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

The stormwater fee is still in place at \$35 per quarter per ERU.