



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 & Reporting Period: Year 10
April 1, 2012 – March 31, 2013

NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2013)

Part I. General Information

1.
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2.
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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: 4-30-13

Signature: Terrance Sullivan

Printed Name: Terrance Sullivan

Title: Administrator of Community Utilities

Date: 4-30-13

Part II. Self-Assessment

In Year 10, the City of Fall River made significant progress with the City's stormwater management program. Progress continued with development of the stormwater GIS through digitizing plans and field inspections. The City purchased a Trimble GeoXH 6000 handheld GPS unit in Year 10. Field crews continued to investigate for illicit connections when conducting any field work on the stormwater system.

In April 2012 hundreds of volunteers helped clean up the City by participating in "Operation Clean Sweep," the first citywide initiative of its kind. Also in April 2012 local high school students toured the wastewater treatment and were educated about the CSO Project and stormwater program. A group high school students also volunteered to stencil storm drains as part of Earth Week. In May 2012, the Stormwater Manager and a representative from the Massachusetts Audubon Society presented at a Fall River Sewer Commission meeting on the importance of stormwater management and water quality. This meeting was recorded and aired on a local cable channel to educate Fall River residents.

In Year 10, the City began implementing the InfoNet asset management software program. This computerized maintenance management system (CMMS) software is used to manage all of the data collected from operation and maintenance activities of the stormwater and combined sewer system. This program is GIS-based and links work orders to the specific assets and maintains a work history for each asset.

Also in Year 10 depth sensors and overflow detection devices were installed in 16 of the City's CSO structures. The depth sensors measure the flow inside a sewer structure. These measurements are used to calculate overflow volumes based on weir measurements and flow equations. The sensors and devices are also capable of sending alarms when flows reach specified levels which can be used to prevent dry weather overflows.

In Year 10, two new street sweepers were purchased. The City now has three street sweepers in excellent condition. Street and sidewalk sweeping will be major parts of an aggressive effort to get the City clean in Year 11.

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
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. New educational water quality and stormwater handouts were also made available at 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 held its first citywide initiative “Operation Clean Sweep” on April 28, 2012. In addition five neighborhood cleanups took place on Saturdays during the months of May and June of 2012.	A Citywide park cleanup day is scheduled for April 27, 2013. Neighborhood Associations also have 5 Cleanup Days scheduled during May and June 2013.

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.	A representative from the Mass Audubon and the Fall River Stormwater Manager presented to the City's Sewer Commission in May 2012. This presentation focused on the importance of protecting water quality and stormwater, what residents can do and what the City is doing to protect and improve stormwater water. This presentation was video recorded and aired on a local television channel. Local high school environmental science students were presented with information on the wastewater treatment plant, CSO project and stormwater permits and 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. 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. The Stormwater Manager discussed the importance of storm water protection with Durfee High School's Green Team during the week of Earth Day 2012. Students also assisted in stenciling storm drains during Earth Week.	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 10 (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 175 catch basins in Year 10. Durfee High School's Green Team volunteered to assist in storm drain stenciling during April 2012.	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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities
3-1	Conduct dry weather outfall screening.	Sewer Commission	The 3 rd round of screening was done in yr 9. Number of outfalls screened.	<p>Whenever we are working near any outfall we screen it for dry weather discharge.</p> <p>An illicit connection was identified on Millard Street where a residential sewer system was connected to the stormwater system. Corrective actions were taken to connect the property to the sanitary sewer system and remove the illicit connection.</p>	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 stormwater collection system GIS is continuously being updated from historical record plans and field surveys.	Continue to update the Stormwater GIS map.
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.	<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 was identified during storm drain inspections and GPS surveying on Millard Street where a residential sewer service was tied into a storm drain. Corrective action was taken to remove the service from the storm drain and connect the service to the sanitary sewer.</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.

3-4	Investigate if any twin invert (TI) manholes are in the separate SW system.	Sewer Commission	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.	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.	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.
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 10 (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 10 (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			

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
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. Wastewater collection system are currently viewing the training video. 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 1,275 tons for year 10.	Continue required street sweeping and have DPW compile tonnage.
6-3	Storm drain maintenance.	Sewer Commission	Goal to clean all basins (\approx 5,000) at least once every 3-4 years (# cleaned).	Veolia Water reported that 1,494 catch basins were cleaned and over 977 tons of grit was removed from catch basins and drain/sewer lines. In addition 78 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 \$8,100 in repairs/maintenance. The DPW reported a total cost for repairs and maintenance of the Tymco street sweeper of \$27,000. Two new street sweepers were purchased in Year 10.	Continue ongoing equipment evaluations.

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 10 approximately 4,800 tons of salt and 1,100 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 10. 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 Fall River Street Tree Planting Program planted 46 trees during Year 10. The Trustees of Reservations planted approximately 100 Atlantic White Cedars in the Copicut Woods. The City is currently developing an urban tree farm program.	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. The City will proceed with the urban tree farm project in Year 11.
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 19, 2012.	The City in conjunction with Allied Waste is planning the annual Household Hazardous Waste Collection Day for early May 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. Pilot yard waste collection program in which yard waste bins are distributed to residents and picked up weekly rather than bi-weekly to begin in May 2013.

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.
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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

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