



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

JASIEL F. CORREIA II
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 15
April 1, 2017 – March 31, 2018

NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2018)

Part I. General Information

1.

Contact Person: Valarie Francis Title: Stormwater Associate

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2.

Contact Person: Terrence Sullivan Title: Administrator of Community Utilities

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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: Valarie Francis

Printed Name: Valarie Francis

Title: Stormwater Associate

Date: 4-20-2018

Signature: Terrance J. Sullivan

Printed Name: Terrance J. Sullivan

Title: Administrator of Community Utilities

Date: 4/20/18

Part II. Self-Assessment – Year 15

The City of Fall River has completed the required self-assessment and has determined that the municipality is in compliance with all permit conditions.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (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.	Stormwater brochures, educational water quality and stormwater handouts, and bookmarks are available at the Public Libraries and City Hall. Created SW flyers for construction industry to add to building permit applications. Created flyers for Detention pond owners, and door hangers/flyers to notify residence of SW pollution found in their area.	Continue to maintain availability of an updated brochure and educational materials at the Library and City Hall. Distribute flyers for Detention pond owners. Use door hangers/flyers to notify residence of SW pollution found in their area.
1-2	Update City Website to include information on SW management.	Conservation Commission	City Website updated to include SW management issues	The City Instituted a new website. The new city website currently has a link to the IMP Executive Summary (Integrated Wastewater and Stormwater Master Plan) completed January 2016 which contains some of the CSO Abatement Program information.	Continue working with IT to incorporate new Stormwater pages including copies of all education materials.
1-3	Continue to sponsor annual Shoreline Cleanup.	Conservation Commission	Hold City sponsored Cleanup Days.	Quequechan River Rail Trail clean up and North Park Clean up were held on Earth Day April 22, 2017. DPW, FR Fire Dept, Mass in Motion, Friends of the QRRT, FR Stormwater Associate participated in the clean-up. Other park events and clean ups were held April 19, April 28, May 6, Sept 15, and Sept 23, 2017 at various parks throughout Fall River.	City will continue to sponsor shoreline, open space, and park clean up. Fall River Park Advocates and Fall River Street Tree Planting Program, Friends of the Quequechan, and Mass in Motion hold several clean up and, tree planting days, and other park events. Fall River continues the PAYT program to encourage recycling.

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.	Stormwater education presentations were provided by the Stormwater Associate at park events April 22, Sept 15, and Sept 23, 2017. A televised and recorded Stormwater presentation to the Sewer Commission was provided Dec 13, 2017	Continue to give at least one presentation on SW management to schools and/or 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 and 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. Look into adding signs and poop bag dispensers to QRRT for Permit yr 16
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.	Quequechan River Rail Trail clean up and North Park Clean up were held on Earth Day April 22, 2017. DPW, FR Fire Dept, Mass in Motion, Friends of the QRRT, FR Stormwater Associate participated in the clean-up. Other Stormwater education presentations were provided by the Stormwater Associate at park events (April 22, Sept 15, and Sept 23, 2017); and a recorded/televised Stormwater presentation was given to the Sewer Commission on Dec 13, 2017	Continue to participate in any event held on or around Earth Day. Participation and stormwater education will be provided at the Earth Day Clean-up event at the AJLQRRT scheduled for April 21, 2018.
1-8	Integrated Wastewater and Stormwater Management Plan	Sewer Commission	Stormwater Mitigation Planning	In year 13, the City of Fall River IMP Executive Summary (Integrated Wastewater and Stormwater Master Plan) was completed January 2016 which contains CSO Abatement Program information.	The new city website currently has a link to the IMP Executive Summary providing complete public access. Continue to provide public access to the plan.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (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, and City Website Calendar	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 with priority given to those discharging to sensitive areas such as wetlands, ponds, and rivers. (Veolia Water CB stencil goal 50 basins/yr)	Veolia Water stenciled <u>130</u> catch basins in Year 15.	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 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities
3-1	Conduct dry weather outfall screening	Sewer Commission	The 9th round of screening was done in Yr 15. All known outfalls screened and reclassified by end of year 15.	Followed all new IDDE/outfall screening, sampling procedures per new MS4 Permit specifications, and created new maps per new regulations. Also doing river sample water quality monitoring not necessarily at outfall locations. A combined total of 50 locations were dry screened, wet screened, sampled and/or GPS'd in year 15. No new illicit connection found.	Continue IDDE/outfall screening, sampling procedures per new MS4 Permit specifications. Continue updating maps with new data, and reclassification process.
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 quarterly, and provide sewer and stormwater shapefiles to City GIS online	Continue to update the Stormwater GIS map layers within Infonet and provide shapefiles for integration and use in the GIS online access. New information added, existing information verified and or updated.	Continue to update the GIS map of the SW Collection System (CS). Meet all GIS mapping specifications required in new MS4 permit within 5 years.

3-3	Develop & implement a plan to identify & remove non-SW discharges from the MS4.	Sewer Commission	Number of illicit Connections found, investigated, and removed. Locate and remove any illicit connections within 2 yrs of screening. All outfalls inspected and categorized by end of year 14.	50 total combined outfalls, outlets, and inlets were inspected in year 15 during scheduled outfall screenings. Also, routine system inspections for illicit connections are conducted during catch basin cleanings and GPS field surveys. No new illicit connections found in year 15.	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 cleaning catch basins and doing field work and follow up on any complaints. CCTV inspections, dye testing and water quality testing are conducted as needed to identify illicit connections and illegal dumping.
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.	The TI MH's found at Lowell St. and Quequechan St. are connected to the CSO diversion structures at those locations. A TI is located on Tremont St and stormwater flow downstream from this is permanently diverted to the CSO diversion structure at Plymouth N location and processed at the WWTP. No new TI have been found.	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 connections to the MS4, allows access to search for illicit connections, and requires removal of illicit connections	Law Department/ Sewer Commission	Update ordinance	New Stormwater ordinance and regulations approved and adopted by City Council in January 2018	Completed.
3-6	Develop ordinance to require inspection of new construction for proper conn. to SS.	Law Department/ Sewer Commission	update ordinance	New Stormwater ordinance and regulations approved and adopted by City Council in January 2018	Completed.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities
4-1	Develop Construction Site Erosion & Sediment Control ordinance for sites > 1 acre	Law Department/ Sewer Commission/ Planning Department	A set of city ordinances with more detailed requirements was drafted and finalized yr 11, submit to City Council in yr 12 and thereafter until passed, originally passed yr 13.	New Stormwater ordinance and regulations approved and adopted by City Council in January 2018 which includes Construction Site Erosion & Sediment Control	completed
4-2	Require developers/contractors to submit monthly erosion & sediment control inspection reports to City for sites > 1 acre.	Building Inspector/ Planning Department	Develop procedure for receiving & reviewing monthly reports in yr 3; require report submittals in yr 4 and thereafter.	Procedures for inspection and enforcement of control measures at construction sites and procedures to ensure long term operation and maintenance of best management practices (post construction) are contained in the New Stormwater ordinance and regulations approved and adopted by City Council in January 2018	Completed
4-3A	Review site plans (>1 AC) for SW impacts, including adequate erosion/sediment controls.	Building Inspector/ Planning Department	Develop protocol for reviewing plans (including training) in yr 2; begin reviews in yr 3.	Procedures for site plan reviews contained within the New Stormwater ordinance and regulations approved and adopted by City Council in January 2018	Completed
4-3B	Ordinances and Revisions to building permit application structure to address drainage and storm water management issues	Building Inspector/ Planning Department/ Sewer Commission	Revise Building Permit applications requiring drainage plans. Pass ordinances regarding curbs and sidewalks, and regarding structure and driveway elevation relative to roadway.	Drainage requirements for all building permits contained within the New Stormwater ordinance and regulations approved and adopted by City Council in January 2018	Completed
4-4	Consideration of public input for sites disturbing 1 > AC.	Building Inspector/ 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.

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 15 (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/ Planning/ Building Inspector	Site Plan Review Ordinance approved by City Council in year 13	New Stormwater ordinance and regulations approved and adopted by City Council in January 2018	Completed
5-2	Specify a SW BMP manual in ordinance to be used for consistent design & performance standards.	Planning/ Engineering/ Conservation Commission	Specify a SW BMP manual to be included in the ordinance. MA DEP/CZM “Stormwater Management Volume 2: Stormwater Technical Handbook,” March 1997 was selected in yr 1.	Regulations included in the New Stormwater ordinance and regulations approved and adopted by City Council in January 2018	Completed
5-3	Ensure long-term maintenance of structural BMPs.	Law Department/ Sewer Commission	Include provisions in the ordinance requiring developers to submit thorough specs for BMPs & provide maintenance funding. Present to City Council and implement when/if approved.	Completed.	Completed.
Revised		Law Department/ Planning/ Building Inspector	Provision for contractors to provide maintenance funding eliminated from bylaw due to not being politically feasible		

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 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities
6-1	Employee Training program.	Department of Public Works/ 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).	Stormwater training Materials provided to Parks, DPW and WWTP facility for permit year 15 (year 4 of 5-yr training cycle). 75% complete end of year 4. Continue 5-year training cycle through departments.	Provide new stormwater training CD and tests for Water treatment facility and city Sewer and Water Dept employees in permit yr 16 to continue year 5 of 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 DPW conducts street sweeping. They reported annual sweepings (weighed at the landfill) of approximately <u>6500</u> tons for year 15, and approximately <u>1950</u> miles swept yr 15.	Continue required street sweeping and have DPW compile tonnage, and mileage.
6-3	Storm drain maintenance.	Sewer Commission	Goal to clean all basins (≈ 5,000) at least once every 3-4 years(approx. 1500/yr cleaned).	Veolia Water reported that <u>1887</u> catch basins were cleaned and over <u>801.86</u> tons of grit was removed from catch basins and drain/sewer lines. In addition, <u>53</u> catch basins were repaired.	Measurable goal of > 1,500 catch basins cleaned per year (Veolia goal >1700/yr FY July-June)
6-4	Evaluate street sweeping & catch basin cleaning equipment.	Department of Public Works/ 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 <u>\$38,112.00</u> in repairs and maintenance. The DPW reported a total cost for repairs and maintenance the street sweepers of <u>\$17,152.00</u>	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 15 approximately <u>7000</u> tons of salt and <u>200</u> yds of sand were used by the FRDPW.	Continue practices and procedures as outlined herein.

6-6 Revised	Continue spill prevention & response measures at municipal facilities.	Department of Public Works/ 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 15. Facilities reported that plans were updated. Spill prevention training is also included in the stormwater education materials.	Continue training and update spill prevention and response plan.
6-7	Maintain hazardous materials inventory.	Department of Public Works/ 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	Department of Public Works/ Sewer Commission/ Water Dept.	Minimizing impacts from vehicle maintenance through training and proper hazardous materials management & use reduction. Limit maintenance of vehicles to the inside of the respective maintenance facilities, or other similarly contained areas.	Training is ongoing, hazardous materials are tracked, and regular maintenance is restricted to the inside of facilities. Training about minimizing impacts from vehicle maintenance is also included in the stormwater education materials.	Continue practices and procedures as outlined herein.
6-9	Minimize impacts from vehicle washing.	Department of Public Works/ Sewer Commission/ Water Dept	Minimize impacts from vehicle washing by washing inside maintenance facilities or where water drains to sanitary or combined sewer systems	All maintenance facilities are located on combined sewer systems. No wash water goes to any separate drainage system. Training about minimizing impacts from vehicle washing is also included in the stormwater education materials.	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 planting & maintenance program.	Parks Dept, DPW	Continue practice of planting about 100 trees per yr. and replacing trees that have been cut down. Keep records of # of trees planted.	The City of Fall River DPW department recorded a total of 14 Trees Planted, 50 Trees trimmed, and 70 Trees Removed. Many trees were damaged/downed/removed due to extreme weather events late in the year. The Tree Farm was not in full operation this year and no tree planting information was obtained from the Tree Farm or the FRSTPP.	The City will continue the urban tree farm project with the Maryann Wordell Tree Farm. The FRSTPP will continue to plant trees around the city annually. DPW will continue to keep records of trees planted and to plant or replace about 100 trees per year.
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.	With the closure of the landfill and the new PAYT program the City no longer holds a free annual Household Hazardous Waste Collection Day.	Develop an alternative to the annual hazardous waste collection day.
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 and oil (limit 15 gal) free of charge from May – October on the first Friday and Saturday of the month. Other waste items may be dropped from 7-3, Monday – Friday, and from 8-12 on Sat. Yard waste is now collected weekly in brown yard waste carts. Other yard wastes picked up per instructions and schedule posted online.	Continue program as delineated herein. Large items can be dropped off at garage, or scheduled for curbside pick-up with a paid sticker.
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 for year 15. 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 now in place at \$40 per quarter per ERU