

Municipality/Organization: City of New Bedford, MA

6/6/16

EPA NPDES Permit Number: MAR041140

MA DEP Transmittal Number: X265492

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Annual Report Number & Reporting Period: Year 12: April 1, 2015 - March 31, 2016

## NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2016)

### Part I. General Information

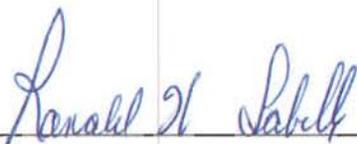
Contact Person: Ronald H. Labelle Title: Commissioner

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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: 

Printed Name: Ronald H. Labelle

Title: Commissioner, Department of Public Infrastructure

Date:

## **Part II. Self-Assessment**

The City of New Bedford has completed the required self-assessment, and has determined that the municipality is in compliance with all permit conditions. Due to the tremendous success and positive comments received, in lieu of a formalized public outreach program/public meeting; the City again conducted informal public outreach efforts at various events to reach a larger and more diverse audience including both city residents and those within surrounding communities.

**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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
1-1	Education Flyer/Fact Sheet Distribution	Public Infrastructure	Flyer/Fact Sheet Update and distribute per time line	<p>Researched and ordered pre-printed brochures and children’s educational booklets for public distribution. Many were placed in public locations such as City Hall, Libraries and Public Infrastructure Office. Others were used during exhibits or classroom education. April 25, 2015 – At the Buzzards Bay Action Committee Earth Day Celebration an exhibitors table was set up with a video, non-flushable demonstration items, pamphlets, and can covers with “Can the Grease” printed on them. This provided an opportunity for one-on-one education of the public. This event was attended by over 200 residents.</p> <p>School programs for children covering Fats, Oil, and Grease (FOG); Non-flushables; and Storm Water Pollution were presented throughout the reporting period. Activity booklets and can covers were given to each child. There were over 100 children reached through this endeavor.</p> <p>In June of this reporting period, “Captain Plunger” made his debut. A superhero cartoon icon that was created by the students of the New Bedford Vocational High School. This is to be used to identify with the FOG and Non-flushable Programs as a reminder to</p>	<p>Continue working with the vocational high school students to create a TV commercial, billboard messages, new brochures, and activity booklets.</p> <p>Expand the educational outreach program to school age children.</p> <p>Continue to participate in the Home Show, Earth Day Event, and Farmers Markets. Increase visibility and one-on-one education of the FOG and Non-flushable Programs to the public by setting up exhibitor tables at other public events.</p> <p>Work with MIS to set up a “Captain Plunger” Facebook page, hashtag and City web-site link.</p> <p>Continue placing brochures and flyers at City locations.</p>

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
1-1	Education Flyer/Fact Sheet Distribution	Public Infrastructure	Flyer/Fact Sheet Update and distribute per time line	<p>dispose of those items properly. A joint effort with the Health Dept. to reach out to the public was started. There was a display table set up at a City-wide event in a public park “God Belongs in my City”(August 7) and again at a Farmers Market(Aug. 13). The table displayed non-flushable demonstration items, pamphlets, and the can covers with “Can the Grease” printed on them as giveaway items. This provided an opportunity for one-on-one education of the public also. Both events totaled over 600 residents contacted.</p> <p>In December 2015, FOG and non-flushable flyers were distributed to each the 54 households of a condominium complex with frequently reoccurring blocked drain problems. A neighboring nursery school/day care was also visited and the staff was educated with the same flyers. 50 more fliers were given to the center for distribution to each child’s parents.</p> <p>January 7, 2016 – Another joint table with the Health Dept. was set up at a Landlord’s Association Meeting with the same pamphlets and giveaway items as above. This was attended by 30 landlords resulting in around 100 households reached.</p> <p>1000 giveaway items (can covers and plate scrapers) were ordered and imprinted with the Captain Plunger icon and “Cease the Grease”. These were to be distributed at the Home Show and other outreach events.</p>	

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
1-1				<p>March 5 &amp; 6, 2016 – At the Home Show an exhibitors table was set up with a video, non-flushable demonstration items, pamphlets, flyers, and the Captain Plunger giveaway items for distribution. This provided an opportunity for one-on-one education of the public. This event was attended by about 2000 people.</p> <p>“Do Not Flush/Cease the Grease” flyers were distributed to homeowners at each of the City’s 307 blocked drain calls during 2015.</p> <p>Provided information to the MIS Department for posting on the City web-site regarding the FOG and Non-flushable Programs.</p> <p>December 1, 2015 - Public Infrastructure’s FOG Program began. Over 600 permit applications were mailed out to each Food Service Establishment (FSE). Permits were issued following the application process. Each permit requires weekly inspections of Grease Traps and monthly cleaning. The permit also included Best Management Practices (BMPs) to be used at each location to reduce FOG problems in their drains and the City’s collection system.</p> <p>March 1, 2016 – Inspections of each of the permitted FSE’s began. The inspections also are placing an emphasis on the BMP’s as listed with the permit.</p>	

1-2	Annual Meeting	Public Infrastructure	Public Meeting Advertised and Conducted	<p>A formal city wide public meeting was not conducted during this reporting period; however, the City exhibited at the Home Show which was attended by about 2000 people. The City again participated at other public events totaling over an additional 1300 residents reached. Based on prior formal public meetings, these events captured a greater audience of not only residents of New Bedford but regionally to surrounding communities.</p> <p>Public meetings were held with the Sassaquin Pond Neighborhood Association to address specific stormwater related issues.</p>	<p>Due to the overwhelming success of the Home Show and Earth Day events and positive comments received, the City will continue to expand these public outreach efforts. Continue coordinating outreach efforts on a project specific basis and with more focused/area local meetings including local neighborhood associations that are better attended than City wide public meetings.</p> <p>Continue public meetings with City neighborhood association.</p>
1-3	Web-page Flyer	MIS	Placement of stormwater flyer on City's website	<p>Flyers were removed as part of City's website update. DPI resubmitted flyers to MIS and continued efforts to update and improve City's website including posting new information to web site.</p>	<p>Work with MIS to set up a "Captain Plunger" Facebook page, hashtag and City web-site link. Continue placing brochures and flyers at City locations.</p>
1-4	Household Hazardous Waste Collection Day	Greater New Bedford Regional Refuse Management	Two sets of Collection Days Held per Year (May and September)	<p>Household Hazardous Waste Collection Days held on May 2 and October 3, 2015. Car tire drop off day was held on May 16 and Sept. 19, 2015 Drug Take Back Day was held on May 16 and Sept. 26, 2015. These events collected 10 tons, 252 tires, and 11 boxes of sharps.</p>	<p>Will continue with Household Hazardous Waste Collection Days held in May and October, 2016. Car tire drop off day will be held in May, 2015 and Drug Take Back Day will be held in May, 2016.</p>
1-5	Stencil Catch Basins	Public Infrastructure	Catch Basins Stenciled	<p>Public Infrastructure has and continues to install permanent medallions on catch basins stating "Do Not Dump – Drains to Bay" as the inlets are replaced. During this reporting period, the City installed 176 permanent medallions.</p> <p>8 new catch basins installed as part of the Coggeshall Street project had the permanent medallions installed. Also had Eagle Scouts stenciled about 50 Catch Basins</p>	<p>Continue to install permanent medallions on all catch basins replaced.</p> <p>New catch basins installed as part of the Coggeshall Street project will have the permanent medallions installed.</p>

**1a. Additions**

The Mayor has publicly promoted the City's initiatives to plant 500 trees per year within the City. Last year approximately 969 trees were planted. DPI continues to implement these improvements.

## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
2-1	Encourage Public Participation	Public Infrastructure	Mail flyer for distribution and hold annual public meeting	<p>Coordinated with Sassaquin Pond Neighborhood Association to address stormwater pollution prevention controls.</p> <p>Attended City of New Bedford Home Show where about 2000 people attended.</p> <p>Attended annual Earth Day event attended by over 200 residents..</p> <p>Continued working with Greater New Bedford Voc Tech students for the development of public outreach materials, flyers, handouts, and a TV commercial.</p>	<p>Hold public City wide meeting. Coordinate efforts with Item 1-2 above related to outreach and education.</p> <p>Continue to update and submit new flyers as needed.</p> <p>Coordinate with MIS for posting on City website.</p> <p>Work with MIS to set up a “Captain Plunger” Facebook page, hashtag and City web-site link.</p> <p>Continue working with the students at Greater New Bedford Voc Tech for assistance in development of the public outreach program. Also, work with the school department to expand the education outreach program to the City’s school children.</p>
2-2	Establish Stormwater Management Committee	Public Infrastructure	Committee meets to review program’s progress	The City’s stormwater committee submitted to City council the stormwater ordinance that was enacted by the City’s council on October 15, 2015.	Incorporate comments from various City departments and submit updated stormwater ordinance to the City Council for vote. Review requirements of the new MS 4 permit and prepare to implement any changes.

2-3	Stencil Catch Basins	Public Infrastructure	Catch Basins Stenciled	Public Infrastructure has and continues to install permanent medallions on catch basins stating "Do Not Dump – Drains to Bay" as the inlets are replaced. 176 medallions were installed during this reporting period.	Continue to install permanent medallions and stencil catch basins with the assistance from environmental groups.  New catch basins installed as part of the Coggeshall Street project will have the permanent medallions installed.

**2a. Additions**

The City is coordinating public outreach efforts for the stormwater system in conjunction with proper use of the sanitary wastewater collection system through their CMOM program and IPP initiatives.

### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
3-1	Discharge Identification	Public Infrastructure	Stormwater Outfalls Mapped	The City has identified, evaluated, and digitized most stormwater discharge locations to GIS. There are a number of discharge points to be verified. The City’s Stormwater and Conservation Staff continue to work to identify these locations.	<p>Continue to update GIS mapping with identified stormwater discharge points.</p> <p>Incorporate mapping and location efforts with the City’s Computerized Maintenance Management System (CMMS) for development of preventive maintenance and work orders as needed.</p> <p>Continue implementing tablet technology with field staff which can be used to locate discharge locations in the field.</p>

3-2	Drainage Mapping	Public Infrastructure	Map of stormwater system	<p>Data was refined and continues to be refined. Stormwater maps continue to be digitized to GIS by City staff. City staff worked closely with engineering consultant on GIS related matters including data entry and training.</p> <p>Implemented GIS improvements identified in the GIS needs assessment.</p>	<p>Continue to update GIS. Coordinate working with engineering consultant to complete GIS mapping as part of CMOM program. Continue to work with engineering consultant to implement improvements.</p> <p>Link scanned maps to GIS system for viewing in field through CMMS system and tablet technology. Coordinating these efforts with the CMOM program. Continue improvements to the GIS system.</p> <p>New city projects publicly bid will have a GIS component included to locate new infrastructure that can then be directly uploaded to the GIS system. Coggeshall Street improvements will be the first project to utilize these new requirements.</p>
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3-3	Illicit Discharge Identification	Public Infrastructure	Correct illicit discharges	<p>City conducted an IDDE program in Outfall 027 area with the goal of identifying illicit connections. One illicit connection has been identified in this area within the reporting period and has been corrected.</p> <p>GIS improvements and improved connectivity have helped to delineate specific drainage basins to locate illicit connections within the Outfall 027 area.</p> <p>Flow metering within the stormwater system and sewer systems in 2014 have helped locate potential illicit connections. This data is being reviewed and incorporated into the City's IDDE program.</p> <p>As part of the Coggeshall Street project, sewer and stormwater system improvements have been implemented, including direction of existing sewer service connections to new sanitary sewers mitigating the potential for illicit connections along this corridor.</p>	<p>Continue dye testing to identify any illicit connections in Outfall 027 area.</p> <p>Coordinate tablet technology being implemented as part of CMMS system to help document and locate illicit connections.</p> <p>Incorporate IDDE program in Outfall 027 area as well as other areas of the City into the alternatives analysis being completed as part of the City's LTCP/Integrated Capital Plan. Alternatives analysis expected to be completed by December 2015.</p>
3-4	Enforce compliance to minimize illicit connections	Public Infrastructure	Correct illicit discharges	Stormwater ordinance with provisions for enforcement of illicit connections was amended and passed on October 15, 2015.	Continue enforcement of the Storm Water Ordinance and regulations.
3-5	Education Flyer/Fact Sheet Distribution	Public Infrastructure	Flyer/Fact Sheet Update and distribute per time line to include illicit discharges.	<p>Distributed flyers at Earth Day and Home Show events and at City owned locations.</p> <p>School programs for children covering Fats, Oil, and Grease (FOG); Non-flushables; and Storm Water Pollution were presented throughout the</p>	<p>Continue to update flyers and distribute them at more public events.</p> <p>Expand the educational outreach program to school age children.</p>

3-5				<p>reporting period. Activity booklets and can covers were given to each child. There were over 100 children reached through this endeavor.</p> <p>There was a display table set up at a City-wide event in a public park "God Belongs in my City" (August 7) and again at a Farmers Market (Aug. 13). The table displayed non-flushable demonstration items, pamphlets, and the can covers with "Can the Grease" printed on them as giveaway items. This provided an opportunity for one-on-one education of the public also. Both events totaled over 600 residents contacted.</p> <p>March 5 &amp; 6, 2016 – At the Home Show an exhibitors table was set up with a video, non-flushable demonstration items, pamphlets, flyers, and the Captain Plunger giveaway items for distribution. This provided an opportunity for one-on-one education of the public. This event was attended by about 2000 people.</p>	<p>Continue to participate in the Home Show, Earth Day Event, and Farmers Markets. Increase visibility and one-on-one education of the FOG and Non-flushable Programs to the public by setting up exhibitor tables at other public events.</p>
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**3a. Additions**

As part of the City's CMOM program, a GIS Needs Assessment was completed. The City continues working with their on-call engineer to implement those recommendations in conjunction with a computerized asset maintenance system (CMMS) in September 2015 which has improve data tracking and maintenance activities. In addition, DPI has moved towards electronic data collection and field tablets to help crews better view, capture, and manage work. The tablets do allow crews the ability to locate outfalls and document illicit connections through GPS technology. This work has been coordinated with the City's Administrative Order (AO) and Corrective Action Plan (CAP) schedule as submitted to the EPA.

**4. Construction Site Stormwater Runoff Control**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
4-1	By-law Review/Stormwater Ordinance	Stormwater Committee	Review/modify existing by-laws to ensure they adequately address permit requirements.	The City worked with their consulting engineer have developed and revisit the draft stormwater ordinance that failed to pass vote by the City council in March 2013 to include additional requirements related to Low Impact Development. An agreement was signed, draft ordinance updated, and submitted to DPI, the City’s stormwater committee, the planning department, and City’s solicitor’s office for review and comment. The amended ordinance was passed by City council October 15, 2015.	Review requirements of the new MS 4 permit and prepare to implement any changes.
4-2	Subdivision Regulation Review	Planning Department	Review/Modify existing regulations to ensure they adequately address permit requirements	The City worked with their consulting engineer have developed and revisit the draft stormwater ordinance that failed to pass vote by the City council in March 2013 to include additional requirements related to Low Impact Development. An agreement was signed, draft ordinance updated, and submitted to DPI, the City’s stormwater committee, the planning department, and City’s solicitor’s office for review and comment. The amended ordinance was passed by City council October 15, 2015.	Continue enforcement of the amended City Ordinance and Review requirements of the new MS 4 permit and prepare to implement any changes.

4-3	Zoning By-Law Review	Planning Department	Review/Modify existing regulations to ensure they adequately address permit requirements	The City worked with their consulting engineer have developed and revisit the draft stormwater ordinance that failed to pass vote by the City council in March 2013 to include additional requirements related to Low Impact Development. An agreement was signed, draft ordinance updated, and submitted to DPI, the City's stormwater committee, the planning department, and City's solicitor's office for review and comment. The amended ordinance was passed by City council October 15, 2015.	Continue enforcement of the amended City Ordinance and Review requirements of the new MS 4 permit and prepare to implement any changes.

**4a. Additions**

No Additions

## 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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
5-1	Bylaw review	Stormwater Committee	Review/Modify existing regulations to ensure they adequately address permit requirements	The City worked with their consulting engineer have developed and revisit the draft stormwater ordinance that failed to pass vote by the City council in March 2013 to include additional requirements related to Low Impact Development. An agreement was signed, draft ordinance updated, and submitted to DPI, the City’s stormwater committee, the planning department, and City’s solicitor’s office for review and comment. The amended ordinance was passed by City council October 15, 2015.	Continue enforcement of the amended City Ordinance and Review requirements of the new MS 4 permit and prepare to implement any changes.
5-2	Subdivision Regulations Review	Planning Department	Review/Modify existing regulations to ensure they adequately address permit requirements	The City worked with their consulting engineer have developed and revisit the draft stormwater ordinance that failed to pass vote by the City council in March 2013 to include additional requirements related to Low Impact Development. An agreement was signed, draft ordinance updated, and submitted to DPI, the City’s stormwater committee, the planning department, and City’s solicitor’s office for review and comment. The amended ordinance was passed by City council October 15, 2015.	Continue enforcement of the amended City Ordinance and Review requirements of the new MS 4 permit and prepare to implement any changes.

5-3	Zoning By-Law Review	Planning Department	Review/Modify existing regulations to ensure they adequately address permit requirements	The City worked with their consulting engineer have developed and revisit the draft stormwater ordinance that failed to pass vote by the City council in March 2013 to include additional requirements related to Low Impact Development. An agreement was signed, draft ordinance updated, and submitted to DPI, the City's stormwater committee, the planning department, and City's solicitor's office for review and comment. The amended ordinance was passed by City council October 15, 2015.	Continue enforcement of the amended City Ordinance and Review requirements of the new MS 4 permit and prepare to implement any changes.
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**5a. Additions**

DPI is responsible for the operation and maintenance of a number of retention/detention ponds and stormwater screens. In 2015, the City continued with actively maintaining 19 ponds including cleaning/clearing of outfall pipes, removal of sediment and debris from screens, and clearing of brush from ponds.

In 2016, the City will continue with these initiatives and incorporate preventive maintenance activities into the CMMS system.

**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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
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6-1	Protocol Implementation	Public Infrastructure	Implement preventive maintenance techniques.	<p>Protocol implementation includes:</p> <ol style="list-style-type: none"> <li>1. Preventive Maintenance Strategies – LTPMP formalized and submitted to EPA. SOPs have been formalized and adopted by the DPI. Incorporated acoustical technology into LTPMP.</li> <li>2. CMMS system needs assessment completed. Hired software vendor who has implement system. Worked with consulting engineer who has capture data. Budgeted for and has purchase new tablets for electronic field data collection.</li> <li>3. Budgeted for and purchased new CCTV equipment, software, and manhole inspection equipment to link to GIS system to more efficiently capture and collect data related to condition of stormwater system.</li> <li>4. City planted 969 trees.</li> <li>5. The City installed 4607.2 linear feet of sidewalks.</li> <li>6. Sassaquin Pond – Conducted stormwater study. Attended neighborhood association meetings. Implemented source control measures. Maintained leaching catch basins /tree box filters to promote infiltration.</li> <li>7. Vehicle Washing Activities – wash water is directed to sewer</li> <li>8. Park and Landscape Maintenance – Coordinated with Buttonwood Park Zoo to address non-point source pollution prevention measures. Purchased pet waste bags for placement at City parks.</li> </ol>	<ol style="list-style-type: none"> <li>1. Continue to develop SOPs related to maintenance of the system.</li> <li>2. Continue to plant street trees.</li> <li>3. Continue to improve city streets.</li> <li>4. Continue Sassaquin Pond stormwater control measure improvements.</li> <li>5. Continue to replace and maintain drain pipe in conjunction with sewer system maintenance.</li> <li>6. Continue researching options and financing associated reconstruction of the City’s Salt shed and build a new Salt shed.</li> <li>7. Continue with training related to use of new technology – CCTV, SL RAT, tablets.</li> <li>8. Continue integrating stormwater and MS4 requirements into City’s ongoing LTCP/Integrated Capital plan development.</li> <li>9. Continue enforcement of the amended City Ordinance and Review requirements of the new MS 4 permit and prepare to implement any changes.</li> <li>10. Continue to maintain city streets and trash receptacles including enforcement actions as needed per City Code Sections 12 and 17.</li> </ol>
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6-2	Annual Training	Public Infrastructure	Train staff on stormwater and pollution prevention techniques	Conducted training of City DPI staff related to CMOM program including: <ol style="list-style-type: none"> <li>1. NASSCO PACP and MACP training for proper inspection of pipelines and manholes to document condition and prioritize repairs.</li> <li>2. Conducted workshops on GIS and CMMS systems to begin garnering input on needed improvements and needs of the Department.</li> </ol>	Continue to conduct training related to the CMMS system and GIS systems including tablet technology, CCTV and manhole inspection software, job safety and training programs, and SOPs.  Continue to attend vendor training on new equipment as upgrades are made.
6-3	Permit Filing	Public Infrastructure	Permits filed, as needed	For city projects, crews coordinated with the Conservation Commission prior to construction.	Continue coordinating with Conservation Commission.
6-4	Street Sweeping	Public Infrastructure	Sweep 2,600 miles annually	The City swept 6443 miles of city streets	Continue street sweeping program on an annual basis.
6-5	Catch Basin Cleaning	Public Infrastructure	Clean a minimum of 1,000 catch basins annually	The City cleaned 619 catch basins	Continue to clean catch basins on an annual basis.
6-6	Pet Waste Collection	Public Infrastructure	Purchase pet waste collection bags	Purchased pet waste collection bags for placement at various locations to mitigate non-point source pollution.	Continue to purchase pet waste collection bags.

#### 6a. Additions

As part of the City's CMOM program, standard operating procedures (SOPs) were developed for inspection, operation, and maintenance of the City's collection system. SOPs for stormwater system inspection and maintenance will be coordinated with these efforts.

#### 7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

Not Applicable

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

The local Shellfish Constable, in conjunction with Massachusetts Division of Marine Fisheries staff, continue to conduct sampling within New Bedford's receiving waters with a minimum of 6 sampling events at 6 locations per event during the course of the year. Pending the results, additional samples may be collected. Twenty seven (63) sampling events were conducted during the 2015

calendar year. As a matter of protocol, should any sample reveal a higher than normal fecal coliform count, this event will trigger an investigation within the collection system until the problem is resolved.

The current stormwater program is being coordinated closely with the City’s CMOM program and AO activities related to asset management and business practice improvements. In addition, as part of the City’s proposed development of an Integrated Municipal Stormwater and Wastewater Plan, alternatives and recommendations will be developed in context with current MS4 permitting requirements.

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

**Programmatic**

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

**Education, Involvement, and Training**

Estimated number of residents reached by education program(s)	(# or %)	3391 residents
Stormwater management committee established	(y/n)	Y
Stream teams established or supported	(# or y/n)	
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	7 mi. patrolled weekly
<b>Household Hazardous Waste Collection Days</b>		
▪ days sponsored	(#)	8
▪ community participation	(%)	683 residents
▪ material collected	(tons or gal)	10 tons, 252 tires, 11 boxes of sharps
School curricula implemented	(y/n)	Y

**Legal/Regulatory**

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management				
Accompanying Regulation Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management				

**Mapping and Illicit Discharges**

Outfall mapping complete	(%)	
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete	(%)	90%
Mapping method(s)		
▪ Paper/Mylar	(%)	90%
▪ CADD	(%)	N/A
▪ GIS	(%)	90%
Outfalls inspected/screened	(# or %)	
Illicit discharges identified	(#)	1
Illicit connections removed	(#) (est. gpd)	1
% of population on sewer	(%)	97%
% of population on septic systems	(%)	3%

### Construction

Number of construction starts (>1-acre)	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	
Site inspections completed	(# or %)	
Tickets/Stop work orders issued	(# or %)	
Fines collected	(# and \$)	
Complaints/concerns received from public	(#)	

### Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections completed	(# or %)	
Estimated volume of stormwater recharged	(gpy)	

### Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	weekly
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	weekly
Total number of structures cleaned	(#)	619
Storm drain cleaned	(LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	2102 yds.
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		landfill
Cost of screenings disposal	(\$)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	daily
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	daily

Qty. of sand/debris collected by sweeping	(lbs. or tons)	1965 yds.
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	landfill
Cost of sweepings disposal	(\$)	
Vacuum street sweepers purchased/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	

Reduction in application on public land of: (“N/A” = never used; “100%” = elimination)		
▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	

Anti-/De-Icing products and ratios	% NaCl % CaCl <sub>2</sub> % MgCl <sub>2</sub> % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized	(y/n)	Y
Manual control spreaders used	(y/n)	Y
Automatic or Zero-velocity spreaders used	(y/n)	N
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	Y
Storage shed(s) in design or under construction	(y/n)	Y