

Municipality/Organization: City of Quincy, MA
EPA NPDES Permit Number: MAR041081
MaDEP Transmittal Number: W-041020
Annual Report Number
& Reporting Period: Year 15: April 1, 2017 – March 31, 2018

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

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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: Thomas P. Koch
Title: Mayor
Date: 4/27/18

Part II. Self-Assessment

As required, the City of Quincy (City) evaluated compliance of the stormwater management program with the conditions of the *NPDES General Permit for Stormwater Discharges from Small MS4s*, effective May 1, 2003. From April 1, 2017 – March 31, 2018 (Permit Year 15), the City continued to make progress implementing best management practices (BMPs) to meet 2003 General Permit requirements. As required, the City also evaluated the appropriateness of all BMPs in efforts towards achieving the defined measurable goals. This year, BMPs and measurable goals continue to be appropriate with a few small modifications. See Part III for status of each BMP and proposed revisions. **Note that planned activities for the next permit term have not been designated unless a BMP under this permit term was not fully completed or is an ongoing effort.** Quincy's Stormwater Management Program will be re-assessed during development of the Notice of Intent (NOI) for the next reissued General Permit to more efficiently use the City's limited resources and staff time to leverage appropriate stormwater management.

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	Classroom education on stormwater	Department of Public Works (DPW)	Outreach to Ecology Clubs in Schools	Classroom education has been completed in previous permit years, and the DPW continued to make water conservation pamphlets and “Dwayne the Storm Drain” coloring books available at the DPW, library, and other public events.	Measurable goals for 2003 General Permit have been met.
Revised			Materials for school-aged residents available in public locations and classroom education conducted		Stormwater education in 4 th and 5 th grade classrooms is scheduled for 2018 through the curriculum developed by the Neponset River Watershed Association.
1-2	Flyer & Brochure distribution	Department of Public Works	Develop & distribute materials for public education	The DPW continued to hand out “Water Wise Kids”. “Dwayne the Storm Drain” and “Drink Local Tap” water conservation flyers provided by the MWRA. The City also mailed information about the stormwater management program as well as curbside waste & recycling, yard waste, street sweeping, and household hazardous waste disposal, to every resident via the 2017 Spring/Summer “InfoLetter.” The Neponset Stormwater Partnership worked with the City Clerk to design, print, and distribute educational insert regarding pet waste with the mailing of dog license renewals.	Measurable goals for 2003 General Permit have been met.
Revised					

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
1-3	Using the Media and Internet	Department of Public Works	Issue One Local Cable Public Service Announcement (PSA)	Local public access (QATV) regularly airs segments on beach closings, recycling programs, trash pickup schedules, and the City's biannual Household Hazardous Waste Days, where residents can drop off items such as auto fluids, pesticides, batteries, and other eligible items. Announcements of DPW sponsored events such as National Public Works Week are also provided on QATV.	Measurable goals for 2003 General Permit have been met.
Revised				The DPW filmed and broadcasted several Public Service Announcements on Quincy Access Television on topics including trash/recycling collection, FOG, street sweeping, and hazardous materials. The PSAs were broadcasted throughout the year.	
1-3	Using the Media and Internet	Department of Public Works	Annual Article by the Sewer/Water/Drain Superintendent	The DPW uses the City's website and the Public Works InfoLetter to meet this BMP. The InfoLetter is mailed to every resident and includes information on stormwater issues, pollution prevention, and other related City services. It is also available on the City of Quincy webpage.	Measurable goals for 2003 General Permit have been met.
Revised				The City of Quincy DPW webpage https://www.quincyma.gov/govt/depts/pwd/default.htm contains a variety of postings with several related to stormwater and pollution prevention. The DPW prepares an Annual Report for each fiscal year that includes information on stormwater management such as catch basin cleaning, street sweeping, litter cleanup, and waste management. The FY2017 Annual Report is in development and will be posted to the City's website in Spring 2018.	

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
1-3	Using the Media and Internet	Department of Public Works	Publish one storm water press release each year	In addition to the Public Works InfoLetter (see previous BMP), the City developed and published the “Citizens Input Application for Quincy Flood Mitigation Planning” interactive map-based webpage to solicit information about recent flood damage to City infrastructure: http://tighebond.maps.arcgis.com/apps/webappviewer/index.html?id=8923af0a70704bfd98047cffeafb3e62	Measurable goals for 2003 General Permit have been met.
Revised				In Permit Year 15, multiple articles regarding the effects of storms on the City of Quincy were published in the Patriot Ledger .	
1-3	Using the Media and Internet	Department of Public Works	Expand City Website to include Stormwater Topics and links	BMP Completed in previous permit years. The DPW will continue to use the city website to promote stormwater topics.	Measurable goals for 2003 General Permit have been met.
Revised					Once the Neponset Stormwater Partnership educational website is updated (ongoing), the City will add a link to the DPW website.
1-4	Public Safety Fair	All City Departments	Annual Public Safety Fair	This BMP was formally added in Permit Year 4 and three annual fairs were held through Permit Year 5. Annual Public Safety Fair has been discontinued, however stormwater public information has been distributed at the 11 th Annual Kids Fest at Wollaston Beach on June 11, 2017, a chamber of Commerce Holiday Pop Up Shop in December 2017, and other events.	Measurable goals for 2003 General Permit have been met.
Revised	Stormwater Information at City Events		Annually provide stormwater educational materials at public events		

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
1-5	Neighborhood Forums on Flooding	Department of Public Works	PY7 – Perform outreach to residents in response to recent flooding PY8 – Perform outreach in response to projects identified to alleviate flooding PY9-PY10 – No goals planned	BMP Completed in previous permit years. The BMP was added in Permit Year 7 and completed through Permit Year 10. Outreach on flooding is ongoing.	Measurable goals for the 2003 General Permit have been met.

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	Interdepartmental Coordination and Assistance to Preservation Committees	Department of Public Works	Notify City departments of stormwater issues and assist Preservation Committees	In PY15, the Stormwater Advisory Committee (SWAC) continued to meet on a regular basis. The Committee is comprised of nine members of the community. There were two meetings held, October 26, 2017 and January 25, 2018. Agendas are posted online: https://www.quincyma.gov/govt/meeting_agendas/stormwater_management_committee/default.htm . The meetings focused primarily on educating the committee about DPW stormwater operations including the efforts suggested by the committee and employed by the department as well as various stormwater program requirements. The current charge of the Stormwater Advisory Committee is to assist the Department in meeting MCM 1 and 2. The Neponset Stormwater Partnership provided a representative to attend each meeting.	Measurable goals for 2003 General Permit have been met. Continue to meet with Stormwater Advisory Committee. Next meeting scheduled for May 3, 2018.
Revised	Stormwater Advisory Committee an Interdepartmental Coordination		Establish the Committee and Meet Quarterly Notify City departments of stormwater issues and assist Preservation Committees	The DPW convenes monthly water-sewer-drain staff meetings each month to review and discuss stormwater management issues and develop plans to address them in a timely manner. Also, there are several committees specific to receiving waters (e.g., Save the Harbor/Save the Bay, Wollaston Beach Committee, Friends of Sailor's Pond, and Friends of Butler's Pond) that address environmental and water quality issues. The DPW supports these groups.	

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
2-2	Storm Cleanup and Management	Department of Public Works	Track clean-up activities per year Track number of clean-up participants Track number of miles cleaned by volunteers	The annual <i>Cleaner, Greener Quincy</i> day was held on Saturday May 6, 2017, from 9 a.m. to noon. Residents and City departments cleaned the City’s parks, beaches, schools, marshes, and open space areas. Volunteers can sign up on the city’s website and have supplies brought to them. Performed routine cleaning of the Town Brook By-Pass system behind Star Market on School Street. The by-pass system is a component of Town Brook flowing from the Braintree Dam to the Town River at Southern Artery. The By-Pass structure diverts peak (storm) flow into a Deep Rock Tunnel which flows under the City to Town River, thus mitigating flooding in the Downtown. The DPW also conducted it annual cleaning and inspection of Hayward Creek (.5 miles) as required by the 1976 ACOE Flood Control Project. The inspection includes a full CCTV of the creek to ensure that channel flow is not being obstructed and the structural condition of the creek remain intact. The DPW also regularly raked the ten (10) City beaches of debris, particularly during the <i>Cleaner, Greener Quincy</i> event. The Friends of Wollaston Beach hosted or promoted multiple beach cleanup events, including the DCR Park Serve Day on April 29, 2017. On the same day, over 150 volunteers joined the Neponset River Watershed Association / CDR Park Serve Day to clean up	The 29th Annual <i>Cleaner, Greener, Quincy</i> event is scheduled for May 5, 2018. Post-storm cleanup is an ongoing function of the DPW and Parks Departments. The Neponset River Spring Clean-up is scheduled for April 28, 2018 at multiple locations along Quincy’s Riverwalk.
Revised					

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
				Neponset Riverwalk, Commander Shea Boulevard, and Boston Scientific property in Quincy as well as other areas in Dorchester and Milton. More info here: https://www.neponset.org/happenings/sat-april-29-neponset-river-clean-up-dcr-park-serve-day-9am-noon .	
2-3	Stencil Storm Drains	Department of Public Works	Stencil 50 storm drains per year starting in year two	The City continued its catch basin marking and stenciling program to educate residents that all catch basins drain to brooks, rivers, or the ocean. The program has completed catch basin markings in several Quincy neighborhoods, including Squantum, Howe’s Neck and portions of Merrymount. Friends of Wollaston Beach have previously sponsored stenciling of “no-dumping” on catch basins around Wollaston Beach.	Measurable goals for 2003 General Permit have been met.
<i>Revised</i>			Continue to mark catch basins as budget allows		
2-4	Pet Waste Collection	Department of Public Works	Track number of Dog Parks Track number of Signs Posted Track number of Educational Materials Distributed Track number of “Pooper -Scooper Stations”	The City currently does not have dog parks, although several private developments have them, and encourages owners to clean up after their pets by advertising the City Ordinance when owners are required to annually license their pets and pick up dog tags. A copy of the ordinance is sent out with annual registration reminders. The Ordinance requires owners to clean up their pet's waste, control excessive barking, and ensure that their dog is properly vaccinated against rabies. Monetary penalties apply if the ordinance is not adhered to. Signs are posted throughout the City at the 38 fields/parks and 27 miles of beach referencing the City’s Ordinance. These signs are	Measurable goals for 2003 General Permit have been met.
<i>Revised</i>					

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
				vandalized frequently and the Parks Department works to maintain and replace these signs. Information on pet waste disposal is maintained on the City website under “Tips to be a Good Neighbor” section as well as on the Animal Control Department’s webpage.	
2-5	Flagship Beach Program	Department of Public Works and U.S. EPA	Coordinate with EPA as needed.	BMP Complete in previous permit years and additional work is ongoing. Wollaston Beach is an EPA “Flagship Beach,” which receives frequent water quality monitoring and pollution source assessments. Water quality monitoring results are published on the Massachusetts Department of Public Health – Bureau of Environmental Health website http://www.mass.gov/eohhs/gov/departments/dph/programs/environmental-health/. The City coordinated with EPA and MassDEP to respond to an organic odor at Wollaston Beach in PY10. A study conducted in 2013 that included sampling determined that human fecal matter was not present. Results were summarized in <i>A Report on Chemical Analysis of Wollaston Beach, Quincy, Massachusetts May 2013 Beach Samples</i> (July 2013). The City has prioritized the Wollaston Beach drainage area for illicit discharge detection investigations as well as related sewer system investigations. See Section 3 for more information.	As needed, the City plans to support EPA efforts at Wollaston Beach.
Revised					

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
				The Friends of Wollaston Beach also works with the Stormwater Advisory Committee members on public participation and outreach, and the SWAC Chairperson distributed “Dwayne the Storm Drain” brochures at the Annual Meeting on February 10, 2018.	

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	Drainage System Mapping	Department of Public Works	Locate all outfalls	2003 Stormwater Mapping Requirements are complete. The Department has developed a drainage system map that shows the locations of all located outfalls and drainage catchments in the City as well as the MassDEP segment numbers for the water bodies that receive discharges from the outfalls. The Department continues to refine and revise its outfall maps (e.g., location, ownership) based on field work and other work in the City.	Measurable goals for 2003 General Permit have been met.
Revised					
3-1	Drainage System Mapping	Department of Public Works Engineering	Complete drainage system mapping	The City estimates that drainage system mapping is approximately 90% complete. Map includes over 3,300 manholes and 9,100 catch basins, nearly 800,000 linear feet of drain pipe, ditch inlets, 52 tide gates, 337 discharge points and connectivity, where known. As infrastructure projects and drainage system inspections are completed, the map is updated. This process is on-going. The Department purchased 10 additional iPads for use in the field as part of their catch basin cleaning program to record/verify catch basin locations, cleaning efforts, to collect structural condition information and for opportunistic inspection results of illicit discharges. The City is tracking illegal dumping information as a result of this effort for targeted outreach mailings or stenciling activity consistent	Measurable goals for 2003 General Permit have been met. The City will continue to update the drainage system GIS.
Revised					

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
				with the IDDE Program Manual. Residents can report illegal dumping activities on the City website. The City has scanned and georeferenced all record drain plans into its GIS mapping system. The Department is currently in the process of relating all conditional structural assessment and sampling tables to the requisite asset ID in the GIS mapping system.	
3-2	Outfall Testing Program	Department of Public Works	Inspect all City discharges	The City has inspected and screened approximately 60% of outfalls in higher priority areas and performed IDDE	The City will continue to implement its IDDE Program.
Revised			Inspect all City discharges and perform water quality screening according to the IDDE Program	Catchment Investigations in 2016-2017 including CCTB drain pipes, building inspections, and manhole inspections and water quality screening. During PY 15, the City and its consultants screened about 80 outfalls, mostly in dry weather with a few locations screened during wet weather. The DPW screened and sampled accessible coastal outfalls and outfalls along Town Brook in Permit Year 14, during dry weather. The DPW continues to regularly inspects outfalls in flood prone areas and removes debris from both catch basins and outfalls with the vactor or clam truck. As needed, drain lines are also cleaned to reduce obstructions.	The City will continue to clean drainage structures in flood prone areas and remove illicit connections. The City will also continue to clean and repair drainage and sanitary sewer infrastructure as part of the City's CIP.

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
				The IDDE Program Manual (revised 2016) includes provisions for more detailed outfall screening procedures consistent with EPA Region 1 guidance. The City maintains a complaint log of resident calls that voice drainage infrastructure operation and maintenance issues.	
3-2	Outfall Testing Program	Health Department and Department of Public Works	Sample discharges with flow present	BMP is ongoing, and the information is used to prioritize IDDE Program investigations. The City of Quincy Health Department collects beach water quality data every Wednesday from June 18 through September 1, at thirteen (13) beach locations. The results are analyzed for enterococcus counts by a private laboratory, and are made available to the public and media by Thursday or Friday of each week throughout the summer months. EPA may conduct additional testing during the Summer (refer to BMP 2-5). Results are posted on the Health Department's webpage: https://www.quincyma.gov/govt/depts/health/hdnews/beach_results.htm The Massachusetts Department of Conservation and Recreation (DCR) collects daily samples (when feasible) from May 22 through August 31 at four (4) DCR beaches at Wollaston. The Massachusetts Department of Public Health – Bureau of Environmental Health publishes beach	Continue beach sampling and contamination source assessment.
Revised			Monitor beach water quality and review results		

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
				water quality monitoring results on their website: http://www.mass.gov/eohhs/gov/departments/dph/programs/environmental-health/. EPA New England also published DCR beach data and referenced the Massachusetts Department of Public Health site on their own website under the New England Beach Monitoring and Notification Program webpage: http://www.epa.gov/region1/eco/beaches/.	
3-2	Outfall Testing Program	Department of Public Works	Follow-up testing on discharges showing contamination	As part of ongoing drainage improvements throughout the City, follow up dye testing has been conducted by the DPW to determine if discharges are contaminated. The DPW also conducts dye testing if there is a potential sewer/drain crossover as part of ongoing drainage maintenance activities. The Department continues to implement its SSO reporting program to enhance consistency in reporting, recording and communication and will work to ensure overlap with MS4 permit program. In Permit Year 15, the DPW conducted preliminary investigations within three (3) problem catchments across the City that discharge into waters of the United States. These investigations consist of rapid inspection of key junction manhole to obtain dry-weather stormwater samples and assessment for sanitary wastewater indicators. The investigation has resulted in	Continue drain system investigation efforts as part of drainage operations plan.

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
				three verified illicit discharges that have been resolved. DPW has developed and maintains an Emergency Services contract for emergency WSD repairs. This contracting mechanism allows the City to rapidly respond to sanitary sewer and drain emergency failures reducing the longevity of spills or leaks as a result of an emergency situation.	
3-3	Illegal Dumping Education	Department of Public Works	Stormwater committee to distribute flyers, posters & other educational material	The City has continued the catch basin marking and stenciling program to educate residents that all catch basins drain to brooks, rivers, or the ocean. The program has completed catch basin markings in several Quincy neighborhoods, including Squantum, Hough's Neck, Merrymount and Wollaston. See also BMP 2-3.	Measurable goals for 2003 General Permit have been met.
Revised				Information on pet waste disposal is maintained on the City website under “Tips to be a Good Neighbor” section. The 2017Spring/Summer InfoLetter included a “Clean Water is Everybody’s Business” section that explained the difference between the sewer and drain and what can and cannot enter the storm drain.	
3-3	Illegal Dumping Education	Department of Public Works	Document and investigate illegal dumps reported by citizens. Enforce penalties (as necessary).	DPW documents illegal dumping in daily complaint logs. As needed, the DPW responds to calls and enforces the City Ordinance (refer to BMP 3-4). Typical calls include plastic, pet waste, and chemicals dumped in catch basins. Additionally, and	Continue to implement BMP.

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
Revised				as a part of updated IDDE Program, the City will continue to track transitory illicit discharges (dumping) of televisions and toilets as a part of its catch basin cleaning programs to identify targeted areas for illegal dumping outreach. In previous years, the Department issued “No Dumping” education literature to the Hough’s Neck, Adam’s Shore and Wollaston neighborhoods in response to repeat dumping situations.	
3-4	Ordinance Review and Update	Department of Public Works	Review and revise ordinances	In 2005, the City enacted the Ordinance Governing Discharges to the Municipal Storm Drain System (#2005-094). IDDE ordinance was refined and approved by the Council in Permit Year 13. Improvements to the draft ordinance strengthens enforcement and requires drain system connection permit.	Measurable goals for 2003 General Permit have been met.
3-5	Flagship Beach Program	Department of Public Works & EPA		This BMP was added in PY4 to establish a partnership between the City and EPA to investigate Wollaston Beach water quality. The City has prioritized the investigation of the Wollaston Beach drainage area, which is the largest drainage area in the City. Work has been ongoing since 2009, and the City’s consultant has performed sewer and drain investigations, including CCTV and water quality screening. More detailed information is available through the Engineering Department. Current IDDE investigations have been postponed until later in 2018 because of sewer improvements are underway.	Continue to implement BMP.

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
3-6	Sewer Manhole Replacement and Infiltration/Inflow (I/I) Removal Projects	Department of Public Works	PY7 – Perform sewer evaluation to prevent pollution of sensitive areas PY8 – Implement recommendations of sewer evaluation	Ongoing sanitary collection system investigations and improvement decrease Quincy’s potential for illicit discharges and SSOs. I/I reports completed in Permit Year 15 include: • <i>Sanitary Sewer Risk Analysis Evaluation Summary Report</i> (June 2017) • <i>Sewer System Evaluation Study (SSES) Phase III Hydraulic Model Report</i> (May 2017) The City has also performed a City-wide sanitary risk analysis to identify areas for future investigation and potential construction projects, summarized in two Woodard & Curran reports: <i>Sanitary Sewer Risk Analysis Evaluation</i> (June 2017) and the <i>2016 SSES Phase III Hydraulic Model</i>. DPW has developed and maintains an Emergency Services contract for emergency WSD repairs. This contracting mechanism allows the City to rapidly respond to sanitary sewer and drain emergency failures reducing the longevity of spills or leaks as a result of an emergency situation.	Continue to implement BMP.
Revised					

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	Ordinance Review and Updates	Department of Public Works	Review and Revise current erosion and sediment control ordinance	The Stormwater Management and Land Disturbance Ordinance was refined and approved by the Council in Permit Year 13. Improvements to the draft ordinance strengthens enforcement and requires a stormwater management permit for development disturbing over one acre, subdivision plans requiring a definitive plan and projects with common plan of development that exceed one acre.	Measurable goals for 2003 General Permit have been met.
Revised				The Department enforced this ordinance on two (2) occasions in PY15 with the assistance of the Inspectional Services Department.	Continue to implement and enforce ordinance.
4-2	Construction Reviews	Department of Public Works	Develop and implement standard project review procedures	City's DPW Engineering Divisions continued to implement the construction review process to ensure that all stormwater runoff from construction sites has adequate erosion and sediment controls. In addition, the Conservation Commission inspects construction sites in their jurisdiction for proper implementation of erosion and sediment control BMPs.	Measurable goals for 2003 General Permit have been met.
Revised				DPW staff attend meetings twice a month with the Quincy Planning Departments to discuss new development or redevelopment projects. This attendance ensures coordination and review by DPW Engineering on sites that require a stormwater management permit.	Continue to implement BMP.

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
4-2	Construction Reviews	Department of Public Works & Building Inspection Services	Develop and implement standard construction details	The new City Engineer is reviewing standard construction details and proposed construction site erosion controls and the SWPPP (if applicable) on a site-by-site basis.	Measurable goals for 2003 General Permit have been met. Continue to implement BMP.
Revised			Review proposed construction details for compliance with applicable Federal, State, and local regulations		
4-2	Construction Reviews	Engineering	Develop and implement standard inspection review procedures, document inadequate sites/plans reported and non-complaint permits	Engineering Division and Conservation Commission implements standard inspection review procedures. Engineering Division rejects inadequate plans. Permits are not issued until appropriate corrections are made to plans.	Measurable goals for 2003 General Permit have been met. Continue to implement BMP.
Revised					
4-3	Public Information	Department of Public Works	Continue “Hot Line”	DPW continues to make 24-hour hot line available, and responds to emergencies.	Measurable goals for 2003 General Permit have been met. Continue use of hot line for public complaints.
Revised				The Neponset Stormwater Partnership finalized an educational handout on sedimentation and erosion control practices for the construction industry and made it available to communities in electronic form. The City will distribute this information in Permit Year 16.	

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
4-3	Public Information	Department of Public Works	Document & investigate complaints	DPW maintains daily log and enters all complaints received. Complaints are investigated.	Measurable goals for 2003 General Permit have been met.
Revised					Continue to maintain log and investigate 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	Ordinance Review and Update	Department of Public Works	Review and Revise Current Stormwater Ordinances	The Stormwater Management Ordinance was amended and approved by the Council in Permit Year 13. Improvements to the draft ordinance strengthens enforcement and requires a stormwater management permit for development disturbing over one acre, subdivisions requiring a definitive plan or project with a common plan of development that exceed one acre.	Measurable goals for 2003 General Permit have been met. Continue implementation and enforcement of ordinance.
Revised					
5-1	Ordinance Review and Update	Engineering Dept.	Develop and implement standard construction details and policies	City's Engineering Division continues to implement standard construction details and policies and conducts detailed review.	Measurable goals for 2003 General Permit have been met. Continue to implement BMP.
Revised					
5-2	Project Reviews	Department of Public Works	Develop and implement standard Project Review Procedures	Engineering and the W/S/D Division continues to implement standard project review procedures. DPW staff attend meetings twice a month with the Quincy Planning Departments to discuss new development or redevelopment projects. This attendance ensures coordination and review by DPW Engineering on sites that require a stormwater management permit.	Measurable goals for 2003 General Permit have been met. Continue to implement BMP.
Revised					
5-2	Project Reviews	Department of Public Works & Building Inspection Services	Develop and implement standard construction details	As needed, existing files are updated with construction details. As-builts are provided to the City following construction and archived.	Measurable goals for 2003 General Permit have been met. Continue to implement BMP.
Revised					

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
5-2	Project Reviews	Engineering	Develop and implement Standard Inspection Review Procedures	Engineering, W/S/D, and Building Inspectors have standard project review and inspection procedures in place. In PY 13, the City continued its “Private Infrastructure Assessment Initiative” to ensure that large commercial, industrial and residential properties are adequately maintaining sewer, water and drain systems. This initiative includes title research, outreach to facility owner or operators, meetings with owners and operators and review of infrastructure and O&M protocols. Three (3) large private infrastructure inventories were added and georeferenced in the City’s GIS mapping system.	Measurable goals for 2003 General Permit have been met. Continue to implement BMP.
Revised					
5-3	Project Reviews	Building Inspectors	Document inadequate site plans reported by inspectors	Ordinance enforced jointly by DPW & Inspectional Services. In PY 13, a private facility was identified with inadequate maintenance of their stormwater management facility. Inspections by the City and voluntary cooperation by the private facility has resolved lack of maintenance of the stormwater management facility and resulted in a long-term operations and maintenance plan. In PY15, the Building Inspector intervened on two occasions for inadequate stormwater controls.	Measurable goals for 2003 General Permit have been met. Continue to implement BMP.
5-4	Project Reviews	Department of Public Works	Report non-compliant permits	Departments coordinate to resolve issues of non-compliance or the potential thereof.	Measurable goals for 2003 General Permit have been met. Continue to implement BMP.

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	Predictive Catch Basin Program	Department of Public Works	Continue with current program	City continued to inspect catch basins, storm drains, outfalls, and tide gates as part of drainage operations plan, public complaints, and flooding issues.	Continue to implement BMP.
Revised				In PY12 and early PY13, the City completed Phase II of its proactive Comprehensive Storm Drain/Catch Basin Cleaning and Evaluation Program. Utilizing City personnel and an outside contractor, approximately 1,400 tons of debris were removed from close to 2,000 catch basins across the City. Structures (catch basins, drainage storm drains, and outfalls) are also cleaned, repaired, and replaced by the DPW on an as needed basis to address flooding issues. Approximately 75 catch basins were repaired, or replaced in 2017.	
6-2	Street Cleaning Program	Department of Public Works	Continue with current program, review the effectiveness of the program	With the purchase of a new street sweeper in PY11, the Highway Operations Department initiated a street sweeping “blitz” for the spring and fall that covers the entire City, and allows crews to reduce street sweeping operations to one week. During 2017, all streets were swept once during the spring and once in the fall. A PSA with the street sweeping schedule was broadcasted on QATV. Weather permitting, the City sweeps the business district and high traffic areas daily throughout the year. Eight thousand	Continue to implement BMP.
Revised					

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
				(8,000) tons of street sweeping residuals were removed from the streets and disposed in accordance with state guidelines. In PY12, the Highway Operations Department implemented a new “salt-only” strategy to eliminate sand from the roadways during winter months and prevent sand from entering catch basins. This ongoing effort will reduce sweeping cleanup needs in all future permit years. DPW operates a curbside pickup of yard waste throughout the year. The yard waste pickup schedule is posted on the DPW’s webpage. In PY 15, the DPW collected over 10,700 yards of yard waste.	
6-3	Inspect City owned BMPs, ID Retrofit Opportunities	Department of Public Works	Inspect three structural BMPs per year. Implement two retrofit projects	As needed, the City inspects Stormceptors, sand filtration systems, tide gates, and other drainage structures based on complaints or flooding issues. The City also constructed a DPW truck wash station. Many Operations are benefiting from the completion of the truck wash which will keep the Department in compliance with vehicle washing regulations. BMP complete. The City has implemented many stormwater retrofit projects over the permit term to manage both flooding and water quality, such as the Broad Meadow Marsh Restoration project on Town River and the Town Brook Realignment and Restoration project.	Continue to inspect/maintain City’s BMPs and identify retrofit opportunities to improve water quality and reduce flooding.
Revised					

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
6-4	Municipal Employee Training	Department of Public Works	Continue with current program	City staff continued to be aware of proper maintenance procedures for parks and open space, City-owned vehicles and equipment, buildings, street sweeping, and the drainage system. City staff is familiar with proper practices to prevent pollution in stormwater due to municipal operations and new employees go through an orientation program covering these topics. Additionally, DPW staff attends conferences such as those sponsored by AWWA and NEWEA where technical seminars regarding stormwater are presented. During the summer of PY15 the City continued the multiple phase HAZMAT training program for employees across Public Works. This training program will improve handling, labeling and best practices associated with materials and materials management.	Measurable goals for 2003 General Permit have been met. Continue to implement BMP.

Revised				City staff attended all four NSP meetings during the reporting period which included training opportunities through guest presentations, staff presentations, inter-municipal information sharing, and discussion. The major topics covered during the reporting period included: • Strategies for reviewing stormwater design plans submitted by developers • Walkthrough of the EPA Performance Extrapolation Tool • Overview of updated NSP model stormwater bylaw including off-site provisions • Stormwater related zoning and subdivision rule changes implemented in Canton • Overview of NSP SWMP template • Member MS4 program priorities for the next two years • Best practices for de-icing and snow management • EEA municipal vulnerability preparedness (MVP) program • Stormwater BMP retrofit site visit field trip • Meetings also included discussion of NSP work plan items and administrative tasks The City Engineer and Sr. Civil Engineer is also participating in the four-part training session “Engaging Your Community in Stormwater Funding” by EPA New England and the Consensus Building Institute. Two sessions were held in March 2018. Two more sessions will be held in May during Permit Year 16.	
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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
6-5	Woodbine Street Stormwater Improvements Project	Engineering Department	PY7 and 8 – Proceed with Woodbine Street area drainage improvements	Measurable goal met. No work planned in Permit Year 15.	Measurable goals for 2003 General Permit have been met. The City continues to implement their CIP that includes drainage improvement and stormwater treatment projects.

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

The Final Pathogens TMDL for the Neponset River was developed on May 31, 2002 and addresses the following water body:

- Neponset River, Milton Lower Falls Dam, Milton/Boston to mouth at Dorchester Bay, Boston/Quincy (MA73-04).

The TMDLS is being met by BMP ID # 1-2, 2-2, 2-4, 2-5, 3-2, 3-3, 3-4, 3-5, and 3-6.

7b. WLA Assessment

The following table summarizes the WLA for the Neponset River:

Fecal Coliform Waste Load Allocations (WLAs) and Load Allocations (LAs) for the Neponset River and Identified Tributary Streams			
Surface Water Classification	Bacteria Source Category	WLA (organisms per 100 ml)	LA
B	Illicit Discharges to Storm Drains	0	N/A
B	Leaking Sanitary Sewers	0	0
B	Failing Septic Systems	N/A	0
B	Storm Water Runoff	GM $\leq$ 200 90% $\leq$ 400	GM $\leq$ 200 90% $\leq$ 400
B	Sanitary Sewer Overflows	0	0
SB	Illicit Discharges to Storm Drains	0	N/A
SB	Failing Septic Systems	N/A	0
SB	Storm Water Runoff (Boston, Milton and Quincy)	GM $\leq$ 88 90% $\leq$ 260	GM $\leq$ 88 90% $\leq$ 260
SB	Sanitary Sewer Overflows	0	0
SB	Combined Sewer Overflows	0	N/A

GM means geometric mean

N/A means not applicable

The City is making steady progress towards meeting the WLA through implementation of existing BMPs.

Part IV. Summary of Information Collected and Analyzed

- Sampling was conducted at Quincy's public beaches. Results are available at: http://mass.digitalhealthdepartment.com/public_21/beaches.cfm
<http://www.mass.gov/eohhs/gov/departments/dph/programs/environmental-health/>
<http://www.epa.gov/region1/eco/beaches/>
- Results of outfall screenings available at the Engineering Department.