

Municipality/Organization: City of Gloucester

EPA NPDES Permit Number: MA041192

MassDEP Transmittal Number: W-035854

Annual Report Number Year 15
& Reporting Period: April 1, 2017 – March 31, 2018

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Michael Hale, AICP

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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: Sefatia Romeo Theken

Title: Mayor

Date: April 30, 2018

Part II. Self-Assessment

The City has continued to update its stormwater and sewer systems in the downtown area tributary of the CSO-004/005/006 area and portions of East Gloucester tributary to the Hartz Street Pumping Station. The CSO-004/005/006 area is approximately 65 acres and generally bound by Webster Street to the north, Main Street to the south, Green Street to the east and Eastern Avenue to the west. The project's goal is to reduce the amount of storm water that enters the combined and sanitary sewer systems and reduce the likelihood sanitary sewer will overflow through CSO's. This will be achieved by providing new storm drains and rehabilitating existing combined and sanitary sewers. The construction project is being conducted in 2 stages (Projects 3, 5, and 7) with modeling and evaluation in support of each stage (Projects 4 and 6).

SLTCP Project 3

- Sampling as required post-construction was completed spring of 2014 and results were submitted to MassDEP and USEPA under separate cover dated May 7, 2014.

SLTCP Project 4

- The Phase 7 hydraulic modeling report was completed to evaluate the effectiveness of Project 3 submitted in 2014.

SLTCP Project 5

- The project was substantially complete on August 29, 2015 and included removal of Inflow and Infiltration including pipe joint testing, pipe lining and manhole rehabilitation.

SLTCP Project 6

- Phase 8 hydraulic modeling report will be completed to evaluate the effectiveness of Project 5 submitted in 2016.

SLTCP Project 7

- This project was substantially complete on November 25, 2017 and included replacement of sewer pipes, installing new drain pipes, rehabilitating and waterproofing sewer manholes, installation of cured-in-place pipe liners in sewer pipes, and removal of catch basins and roof leaders discharge pipes that were previously connected to the sewer system.

The City's residents were extremely supportive of the project and helped contribute to make the Phase 3 and Project 7 very successful.

The City cleaned 366 catchbasins in 2017. The City has purchased a new Vactor truck to facilitate increased cleaning and maintenance.

The City held successful Hazardous Waste Days on April 29 and September 30, 2017 and leaf pick up weeks to deter illegal dumping. The City has an ongoing mercury thermometer exchange program. In addition, the City holds monthly collections for waste oil, oil filters, tires, car batteries, scrap metal, and fluorescent bulbs.

The City continues to collaborate with Northshore Audubon, Eight Towns and the Bay, Salem Sound Coastwatch and NOAA to monitor various sites around the city as well as public involvement.

The City passed a Stormwater Utility Ordinance in 2009. In March of 2011 the City passed accompanying Regulations. The details of the user fees and enterprise fund are still under review by City Council.

The City passed an Illicit Discharge Ordinance in 2012.

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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1-1 Revised	Classroom Stormwater Education	School Committee	Teachers instruct classes and present material gathered in year one	In Year 7, Salem Sound Coastwatch held classroom exploration of clams and habitat with student of the O'Malley Middle School	Measurable goals for 2003 permit have been met.
1-2, 1-3 Revised	Using the Media	Engineering	Supply DPW, City Hall and Public Library with flyers and fact sheets. Distribute flyers to Gloucester Residents	In Year 1, Posters posted at City Hall, City Hall Annex, and DPW Sites	Measurable goals for 2003 permit have been met.
1-4 Revised	Hazardous Waste Mgt.	DPW	Bi-annual hazardous waste collection	Held annual Hazardous Waste Day 4/30/16 and 9/24/16, continued monthly collections for oil, oil filters, tires, car batteries, scrap metal, and fluorescent bulbs	Continue to hold annual hazardous waste day.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
2-1 Revised	Adopt -A- Stream Program	Con/Com/Community Development	Clean and maintain adopted local waters	Northshore Audubon, Gloucester Conservation & Shellfish Dept. hosted Little River Shoreline survey and cleanup.	Little River Stream Naturalization project began in the fall due to be completed this spring.
2-2 Revised	Pond and Stream Cleanup and Monitoring	Community Development Engineering	Organize stream clean up events	COASTSWEEP 2016 was kicked off in Gloucester this year with a beach cleanup conducted at Stage Fort Park.	Continue to hold annual beach cleanups and other stream cleanup events.
2-3 Revised	Stencil Storm Drains	DPW	Stencil 30 Storm drains per year. Maintain records of stenciled areas in Gloucester	Currently coordinating with the Coast Guard to utilize volunteered Coast Guard resources to conduct stenciling program along the harbor.	Coordinate volunteers to conduct stormdrain stenciling.
Revised	Community Hotline	DPW	Residents use Hotline to report illegal dumping for DPW investigation.	Continued to respond to calls from residents.	Continue to respond to calls from residents.
2-4 Revised	Stormwater Steering Committee	Engineering	Quarterly meetings and during most TAG meetings	Stormwater Utility has been passed and City Council is considering a fee schedule.	Continue to hold meetings.

2-5	Pet Waste Collection	Health Dept. Animal Control	Continued enforcement of ordinances and post signs on beaches and other areas where ordinance is applicable	Dog Park opened May 2013. "Scoop the poop" information provided. Events continue to be held informing dog owners about pet waste.	Continue to inform public about pet waste.
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3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
3-1 Revised	Inspect City Discharges	DPW	Locate, inspect, record condition, dry weather flow	Continue to inspect and record condition of sewer and drain outfall tide gates and CSO regulator structures during dry weather and document conditions and maintenance needs.	Measurable goals for 2003 permit have been met.
3-2 Revised	Structure Mapping	Engineering, DPW	Locate structures, compile database, create map	Continuing work to internally inspect all drainage structures in the City. All outfalls have been mapped and added to the GIS database.	Measurable goals for 2003 permit have been met.
3-3 Revised	Non-stormwater Discharge Education	Mayors Office	Flyers, record and enforce illegal dumps, cleanup	Flyers available at City Hall, City Hall Annex, and DPW	Measurable goals for 2003 permit have been met.
3-4 Revised	Septic System Controls	Board of Health	Maintain systems, document failing systems, repair	Health Department has recorded all repairs of septic systems	Measurable goals for 2003 permit have been met.
3-5 Revised	Illicit Discharge Ordinance	City Council	Create ordinance, eliminate illicit discharges to MS4	Passed Illicit Discharge Ordinance	Measurable goals for 2003 permit have been met.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
4-1 Revised	Ordinance review/Update	City Council	Maintain and enforce exist. Regs, dev. Storm drain regs.	The Rules and Regulations have been passed by City Council	Measurable goals for 2003 permit have been met.
4-2 Revised	Construction Inspection	City Council	Dev. Soil and erosion control ord., maintain inspections	The Rules and Regulations have been passed by City Council	Measurable goals for 2003 permit have been met.

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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
5-1 Revised	Zoning	City Council	Update zoning regs, track changes	Continued to update zoning changes	Continue to update zoning changes
5-2 Revised	Post Construction	City Council	Dev. Storm drain ord, dev standard construction policy	The Rules and Regulations have been passed by City Council	Measurable goals for 2003 permit have been met.
5-3	BMP Inspection, Maintenance	DPW	Inspect BMP's Document Problems, make changes	No action planned in Year 11.	New permit requirements to be addressed in Notice of Intent

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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
6-1 Revised	Catch basin Cleaning	DPW	Develop program, collect data, refine program	BMP complete, City owns vactor truck which continually cleans catchbasins throughout year with focused efforts on problem catchbasins. The City cleaned 366 catchbasins and has purchased a new Vactor truck to enable increased cleaning	Continue regular cleaning of catchbasins.
6-2 Revised	Street Cleaning	DPW	Sweep roads annually, parking lots	Street sweeping conducted March to November; also sidewalk sweeping was completed in downtown area.	Continue regular cleaning of streets.
6-3 Revised	Pipe Cleaning	DPW	Clean 25% of System	Drain structures and pipes cleaned in downtown area as part of downtown sewer separation project.	Measureable goals for 2003 permit have been met.
6-4 Revised	Pipe Installations	Engineering, DPW	Replace portion of pipe, catchbasins annually	Approximately 1,530-feet of drain and sewer pipe were replaced, 2,840 new pipe were installed, 2,000-feet of sewer pipe was lined, and 3 illicit connections to drain pipe redirected to sanitary sewer as part of CSO-project 7 separation project.	Measureable goals for 2003 permit have been met.
6-5 Revised	Investigate City BMP's	DPW	Inspect 3 BMP'S/Year, Implement Retrofits	Drain structures and 4,100-feet of sewer and drain pipes cleaned in downtown area as part of CSO-project 7 separation project.	Measureable goals for 2003 permit have been met.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities
2-2 Revised	Pond and Stream Cleanup and Monitoring	Community Development Engineering	Organize stream clean up events	COASTSWEEP 2016 was kicked off in Gloucester this year with a beach cleanup conducted at Stage Fort Park.	Continue to hold annual beach cleanups and other stream cleanup events.
3-1 Revised	Inspect City Discharges	DPW	Locate, Inspect, Record Condition, Dry Weather Flow	All outfalls have been mapped and added to the GIS database.	New permit requirements to be addressed in Notice of Intent.
3-4 Revised	Septic System Controls	Board of Health	Inspect systems, document failing systems, repairs	Health Department has recorded all repairs of septic systems	New permit requirements to be addressed in Notice of Intent.
6-1 Revised	Catchbasin Cleaning	DPW	Develop program, Collect data, refine program	BMP complete, City owns vactor truck which continually cleans catchbasins throughout year with focused efforts on problem catchbasins. The city cleaned 366 catchbasins.	Measureable goals for 2003 permit have been met.
6-5 Revised	Investigate BMP's	DPW	Inspect 3 BMP's/Year, Implement Retrofits	Drain structures and 4,100-feet of sewer and drain pipes cleaned in downtown area as part of downtown sewer separation project.	Measureable goals for 2003 permit have been met.