

Municipality/Organization: City of Quincy

EPA NPDES Permit Number: MAR041081

MassDEP Transmittal Number: W-041020

Annual Report Number Year 7
& Reporting Period: April 1, 2009 – March 31, 2010

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2010)

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: 4/26/10

Part II. Self-Assessment

From April 1, 2009– March 31, 2010 the City of Quincy continued to make progress implementing BMPs and meeting the General Permit requirements. Stormwater management activities to note include:

- The Coastal Manhole Inspection Program was completed.
- The Coastal Manhole Rehabilitation Project has been designed and bid.
- Completed an illicit discharge investigation near Rhoda Beach in Hough's Neck.
- The Wollaston Beach Drainage Water Quality Study was completed.
- The Wollaston Beach committee has adopted a catch basin stenciling program.
- Multi-mitt stations have been re-established and are overseen by the City's Program Manager. Residents are aware of the stations as evidenced by the requests for restocking and requests for additional stations.
- The City is currently reviewing potential locations for a dog park.
- In the Spring of 2009, the Department of Public Works held a training/class on the use of the CCTV Truck for the IDDE program
- The City of Quincy and USEPA Flagship Beach Program partnership continued through 2009. .
- The City is in the process of implementing the recommendations from the Woodbine Drainage Evaluation, which include replacement of a collapsed section of drain pipe and drainage structures to alleviate flooding.
- The City contracted with Woodard & Curran for an evaluation of sixteen areas within the City of Quincy (the City) identified by the Department of Public Works (DPW) that have regular to periodic problems with drainage performance. This report was completed in April 2009. The report provides recommendations ranging from increased maintenance to large-scale drainage equipment upgrades and all are focused on efficiently and cost-effectively improving the drainage performance of problematic portions of the drainage system.

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 next NOI to more efficiently use the City's limited resources and staff time to leverage better 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 7 (Reliance on non-municipal partners indicated, if any) | Planned Activities |
|-----------------|-------------------------------|--------------------------------------|---|--|--|
| 1-1 Revised | Classroom education | Department of Public Works | Outreach to Ecology Clubs in Schools | Continued working with several local students with research for storm water reports and environmental projects. | Measurable goals for 2003 General Permit have been met. The Department of Public Works plans to continue to work with local students when they seek assistance. |
| 1-2 Revised | Flyer & Brochure distribution | Department of Public Works | Develop & distribute materials for public education | Flyers provided by the MWRA are handed out at the DPW. | Measurable goals for 2003 General Permit have been met. Plan to continue with this practice. |
| 1-3 Revised | Using the Media and Internet | Department of Public Works | Issue One Local Cable Public Service Announcement (PSA) | Three, one-hour PSAs were developed for Water, Wastewater and Stormwater. and the Water and Wastewater PSAs have aired periodically on the local cable access channel during Permit Year 7. The Stormwater PSA will be aired later this year. The Sewer PSA explained that the sewer and stormwater systems are not connected, and not to put pet waste in catch basins, and that the stormwater system drains to Quincy Harbor. | Measurable goals for 2003 General Permit have been met. Plan to continue with this practice. |
| 1-3 Revised | Using the Media and Internet | Department of Public Works | Annual article by Sewer/Water/Drain Superintendent | Continued to respond to all press requests/inquiries. Articles released as necessary. | Measurable goals for 2003 General Permit have been met. Plan to continue with this practice. |
| 1-3 Revised | Using the Media and Internet | Department of Public Works | Publish one storm related article each year | Due to limited staff time and limited budgets, DPW newsletter is not longer mailed directly to households. The DWP now uses the DPW website for this purpose and plans to add stormwater information. | Add stormwater information to the Department of Public Works website, if budget is available. |

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| 1-3 Revised | Using the Media and Internet | Department of Public Works | Expand City Website to include Storm Water Topics and links | Website updates are planned. | Develop Website as planned, if budget is available. |
| 1-4 Revised | Public Safety Fair | All City Departments | Annual Public Safety Fair | The Annual Public Safety Fair was not held in 2009. | Continue to distribute stormwater information at the Public Safety Fair if held. |

1a. Additions

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|-----|---------------------------------|----------------------------|--|--|---|
| 1-5 | Neighborhood Forums of Flooding | Department of Public Works | PY7 - Perform outreach to residents in response to recent flooding | The City developed material for a series of neighborhood forums in response to recent flooding. These forums will occur throughout the City and will focus on maintenance and preventative maintenance of the drainage system. Other stormwater issues will also be addressed. | The first of several planned neighborhood meetings was held on April 27, 2010 in West Quincy. Plan to hold additional meetings throughout the City. |
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2. Public Involvement and Participation

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any) | Planned Activities |
|----------------|-----------------------|----------------------------------|---|--|--|
| 2-1 Revised | Storm Water Committee | Department of Public Works (DPW) | Establish the Committee and meet quarterly. | There are now several committees specific to receiving waters (e.g., Wollaston Beach Committee) or other environmental issues. DPW participates in these groups as necessary regarding the stormwater program. | Measurable goals for 2003 General Permit have been met. Continue meetings to discuss progress and future goals for each watershed |

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| 2-2 | Storm Cleanup and Management | DPW | Track Clean-up activities per year. Track number of clean-up participants Track number of miles cleaned by volunteers | <p><i>Cleaner, Greener Quincy</i> was held on May 2, 2009. Over 1000+ residents volunteers and all city departments cleaned 100 tons of debris</p> <p>Traditionally volunteers clean 4 miles of neighborhood park, beach, school, marsh or open space area. In Permit Year 7, the traditional clean-up area was expanded to include the Furnace Brook watershed area.</p> <p>The City is in planning stage in the development of a Dog Park at Faxon Field.</p> <p>26 mutt-mitt stations have been re-established. Stations have been located at residents' requests.</p> | <p>Measurable goals for 2003 General Permit have been met.</p> <p><i>Cleaner, Greener Quincy</i> has been held for over 20 years. The City plans to continue with this practice. <i>Cleaner Greener Quincy</i> will be held again on May 1, 2010.</p> <p>Post storm cleanup is a function of the DPW and Parks Departments.</p> <p>Many new, planned developments in the City are incorporating dog parks into their site design. High Point Condominiums is once such development.</p> <p>Continue maintaining "pooper-scooper stations."</p> |
| 2-4 | Pet Waste Collection | DPW | Track number of Dog Parks Track number of Signs Posted Track number of Educational Materials Distributed Track number of "Pooper -Scooper Stations" | | |
| 2-5 | Flagship Beach Program | DPW & EPA | | Continued partnership with EPA biologists on biological testing and identification of bacteria sources. | The City plans to continue working with EPA Biologists. |

3. Illicit Discharge Detection and Elimination

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) -- Permit Year 7 (Reliance on non-municipal partners indicated, if any) | Planned Activities |
|----------|-------------------------|-------------------------------|---------------------|--|---|
| 3-1 | Drainage System Mapping | DPW | Locate all outfalls | All outfalls have been identified. | Measurable goals for 2003 General Permit have been met. |

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| 3-1 Revised | Drainage System Mapping | DPW Engineering | Complete drainage system mapping | Drainage system mapping is complete. Summer interns continue to field verify digitized plans. | Measurable goals for 2003 General Permit have been met. Continue field verification of drainage system. |
| 3-2 Revised | Outfall Testing Program | DPW | Inspect all City discharges | Cleaning of outfalls complete. DPW routinely cleans outlets of debris. | City is considering contracting the outfall cleaning work. |
| 3-2 Revised | Outfall Testing Program | Health Dept | Sample discharges with flow present | Testing conducted during summer at beaches. See BMPs 3-5. | Continue bathing beach testing. |
| 3-2 Revised | Outfall Testing Program | Health Dept. | Follow-up testing on discharges showing contamination | Health Dept notifies DPW areas with high bacteria counts. DPW follows up. In 2009, the Wollaston Beach Drainage Water Quality Study was conducted. This study included wet and dry weather sampling at 5 outfalls along Wollaston Beach. Dry weather sampling also included collecting samples at 6 catch basins within the drainage system and wet weather sampling included sampling approximately 20 manholes. Dye Testing was also conducted at the Squantum Yacht Club and the Wollaston Yacht Club. | Continue practice. |
| 3-3 Revised | Illegal Dumping Education | DPW | Storm water committee to distribute flyers, posters & other educational material | The topic of illegal dumping and the connection between the storm drain and the beaches was addressed in the educational materials available at the DPW office and in the cable TV PSAs run in PY7. | Measurable goals for 2003 General Permit have been met. Continue practice. |
| 3-3 Revised | Illegal Dumping Education | DPW | Document and investigate illegal dumps reported by citizens | DPW documents illegal dumping with a daily log. All illegal dumps are investigated by the DPW. | Continue current practice and review protocol in committee. |

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| 3-3 Revised | DPW | Enforce Penalties | Penalties and citations enforced by DPW & Inspectional Services | Measurable goals for 2003 General Permit have been met. Continue enforcement per Ordinance. |
| 3-4 | DPW | Review and revise ordinances | Ordinance Governing Discharges to the Municipal Storm Drain System enacted in 2005 (#2005-094). Established partnership. Focus has been biological testing. Continued working with EPA biologists. In 2009 the EPA notified the Department of Public Works of elevated test results in the Rhoda Beach (the Hough's Neck/Germantown section of Quincy) area that may be indicative of an illicit connection. The Department of Public Works investigated and found no direct connection. | Measurable goals for 2003 General Permit have been met. |
| 3-5 | DPW & EPA | | | Continue working with EPA Biologists. |

3a. Additions

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|-----|----------------------------|--|---|--|
| 3-6 | Department of Public Works | PY7 – Perform sewer evaluation to prevent pollution of sensitive areas | In June 2009 the City inspected approximately 200 sewer manholes along tidal areas, including Black's Creek and every structure along East Squantum adjacent to Wollaston Beach. No SSOs were found, but a small number of I/I sources were found and repaired. | As a result of the manhole inspection project, a Manhole Replacement Project, with includes the repair and replacement of over 100 manholes, has been designed and is currently out to bid. This project should be complete in October 2010. |
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4. Construction Site Stormwater Runoff Control

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any) | Planned Activities |
|----------------|------------------------------|------------------------------------|---|---|--|
| 4-1 Revised | Ordinance Review and Updates | DPW | Review and Revise current erosion and sediment control ordinance | Land Disturbance ordinance enacted in 2008 (#2008-125). Ordinance regulations construction site runoff. | Measurable goals for 2003 General Permit have been met. Continue enforcement of ordinance. |
| 4-2 Revised | Construction Reviews | DPW | Develop and implement standard project review procedures | City's Engineering Dept. implemented a construction review process on sites regardless of lot size to ensure that all post construction stormwater runoff has been in compliance with BMP's. | Measurable goals for 2003 General Permit have been met. |
| 4-2 Revised | Construction Reviews | DPW & Building Inspection Services | Develop and implement standard construction details | Construction details are added to files as needed. | Measurable goals for 2003 General Permit have been met. Continue current practices. |
| 4-2 Revised | Construction Reviews | Engineering | Develop and implement standard inspection review procedures, document inadequate sites/plans reported and non-complaint permits | Engineering Department implements standard inspection review procedures. Engineering Department rejects inadequate plans. Permits are not issued until appropriate corrections are made to plans. | Measurable goals for 2003 General Permit have been met. Continue current practices. |
| 4-3 Revised | Public Information | DPW | Continue "Hot Line" | Ongoing use of hot line. | Measurable goals for 2003 General Permit have been met. Continue use of hot line for public complaints. |
| 4-3 Revised | Public Information | DPW | Document & investigate complaints | DPW maintains daily log and enters all daily complaints received. Complaints are investigated. | Measurable goals for 2003 General Permit have been met. Continue current practices. |

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 7 (Reliance on non-municipal partners indicated, if any) | Planned Activities |
|----------------|-----------------------------|-------------------------------|--|---|---|
| 5-1 Revised | Ordinance Review and Update | Department of Public Works | Review and Revise Current Storm Water Ordinances | Post Construction ordinance enacted in 2008 (#2008-126). | Measurable goals for 2003 General Permit have been met. Continue enforcement of ordinance. |
| 5-1 Revised | Ordinance Review and Update | Engineering Dept. | Develop and implement standard construction details and policies | City's Engineering Department has implemented a standard construction details and policies, and conducts detailed review. | Measurable goals for 2003 General Permit have been met. Continue current practices. |
| 5-2 Revised | Project Reviews | DPW | Develop and implement standard Project Review Procedures | Engineering and the Sewer Water Drain Division have standard project review procedures in place. | Measurable goals for 2003 General Permit have been met. Continue current practices. |
| 5-2 Revised | Project Reviews | | Develop and implement standard construction details | Existing files are updated with construction details as required | Measurable goals for 2003 General Permit have been met. Continue current practices. |
| 5-2 Revised | Project Reviews | | Develop and implement Standard Inspection Review Procedures | Engineering, Sewer, Water, & Drain and Building Inspectors have standard procedures in place | Measurable goals for 2003 General Permit have been met. Continue current practices. |
| 5-3 | Project Reviews | Building Inspectors | Document inadequate site plans reported by inspectors | Ordinance enforced jointly by DPW & Inspectional Services | Measurable goals for 2003 General Permit have been met. Continue current practices. |

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| 5-4 | Project Reviews | DPW | Report non-compliant permits | All issues of non-compliance or the potential thereof are reported/resolved interdepartmentally | Measurable goals for 2003 General Permit have been met. Continue current practices. |
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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 7 (Reliance on non-municipal partners indicated, if any) | Planned Activities |
|----------------|--|-------------------------------|--|---|---|
| 6-1 Revised | Predictive Catch Basin Program | Department of Public Works | Continue with current program | Continued the current catch basin, storm drain & tidegate inspection program including operations & maintenance of the storm water system. | Measurable goals for 2003 General Permit have been met. Continue current practices. |
| 6-2 Revised | Street Cleaning Program | Department of Public Works | Continue with current program, review the effectiveness of the program | All streets swept once in April through June 2009. | Measurable goals for 2003 General Permit have been met. Continue to sweep streets at least once per year. |
| 6-3 Revised | Inspect City owned BMPs for Retrofit Opportunities | Department of Public Works | Inspect three structural BMPs per year and implement two retrofit projects | In 2008, applied for CZM grant for Town Brook – installation of two storm Stormceptors. Did not receive CZM grant. And did not pursue another source of funding this permit year. | Continue to look for advantageous locations for the implementation of stormwater retrofits. |
| 6-4 Revised | Municipal Employee Training | Department of Public Works | Continue with current program | In the Spring of 2009, the Department of Public Works held a training/class on the use of the CCTV Truck for the IDDE program. In Permit Year 7, the Department of Public Works conducted a training course for staff members. This course includes training on the proper use of a new high pressure cleaning nozzle and how to properly clean drain lines. | Measurable goals for 2003 General Permit have been met. Continue current practices and look for training opportunities/programs more specific to Quincy's stormwater challenges. |

6a. Additions

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|-----|---|------------------------|---|---|---|
| 6-5 | Woodbine Street Stormwater Improvements Project | Engineering Department | PY7 – Proceed with Woodbine Street area drainage improvements | The City performed an evaluation of the drainage system in the Woodbine Street area, which is prone to flooding. As a result, the City is moving forward with the study recommendations to replace damaged and partially collapsed clay sections of the Wayland and Cushing Street Drains and drain structures. | The project was put out to bid in March 2010 and is awaiting award. |
|-----|---|------------------------|---|---|---|

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

The Final Pathogens TMDL for the Neponset River is being met by BMP ID # 1-3, 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 ≤ 200 90% ≤ 400 | GM ≤ 200 90% ≤ 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 ≤ 88 90% ≤ 260 | GM ≤ 88 90% ≤ 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, in particular, the outfall testing program and the illicit discharge detection and elimination program. At this time the City does not plan to add additional BMPs to address the WLA.

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

The results of the Wollaston Beach Drainage Water Quality Study are available upon request through the Engineering Department at 55 Sea Street.