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Municipality/Organization: Town of Rockland, MA

EPA NPDES Permit Number: MA041058

Massachusetts DEP Transmittal Number: W036804

**Annual Report Number
& Reporting Period:** No. 10: April 1, 2012 -March 31, 2013

NPDES PII Small MS4 General Permit Annual Report

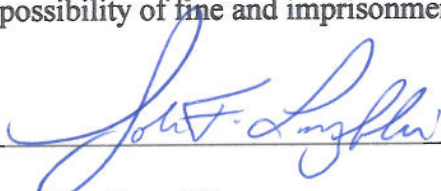
Part I. General Information

Contact Person: John Loughlin **Title:** Superintendent Sewer Department

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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: John Loughlin

Title: Superintendent Sewer Department

Date: April 12, 2013

Part II. Self-Assessment

In general, the Town of Rockland's stormwater management activities for the tenth year of the General Permit (April 2012 through March 2013) were in conformance with the Notice of Intent (Massachusetts DEP form BRP WM 08A) and schedule submitted in July 2003. The Town had developed a Stormwater Management Plan with program priorities for 2003-2013 including:

1. Achieving regulatory compliance, particularly EPA and DEP Phase II NPDES permit requirements;
2. Incorporating storm water protection measures into municipal activities;
3. Focusing activities on target pollution reduction (e.g. Section 303.d. waters and protecting the Town's water supply);
4. Ensuring that the Program is current and innovative; and
5. Providing Program administration.

The Water Quality Stewardship element of the program focuses on the protection of the local water supply and addressing the State's Section 303.d waters located within the Town. To this end, staff will continue to develop and improve the Program activities to reduce storm water pollution to the maximum extent practicable and eliminate prohibited non-storm water discharges, while facilitating understanding and involvement in storm water management by various Town departments. Program priorities will also focus on increased efforts to reduce target pollutants and restore local water bodies.

The Town is committed to working with local watershed associations (i.e., North and South River Watershed Association) to advance their goals and objectives. Another high priority of staff will be to keep abreast of the latest technology and approaches to achieve storm water management. Program activities will also strive to encourage environmental stewardship and continue to build on partnerships with other agencies, neighboring towns, and the community for active participation in accomplishing the Program mission.

The Town continued with control measures that were initiated during the previous permit year, including improving local good housekeeping programs.

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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
1 Revised	Partnership with local Watershed Associations	Con. Comm., DPW, BOH	Regular Meeting Attendance	Continued updates with North and South River Watershed Association (NSRWA)	Continued updating, seek alternative funding opportunities (such as 604b and 319 grants).
2 Revised	Develop Brochures	DPW	Quarterly Mailings	Water department mailings and water quality updates. Stormwater Flyer mailed to Residents in March 2011.	Continued mailings.
3 Revised	Web Site Public Service Postings	IT Dept., DPW	WEB Site Publication & Maintenance	NSRWA information transfer and publication of data, local Web updates	NSRWA information transfer and publication of data, local Web updates
Revised					

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
4 Revised	Water Quality Testing	DPW	2 Rounds of Water Quality Sampling of Priority Water Bodies	Awaiting EPA Permit Update prior to completing further sampling.	Conduct sampling in accordance with updated EPA Permit and in order of catchment ranking as stipulated in updated IDDE Plan.
5 Revised	Community Cleanup Days	DPW	Annually	Conducted in Spring 2012	Scheduled for Spring 2013

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
6 Revised	Catch Basin/Outfall and Receiving Water Mapping	DPW	GIS Mapping	Completed drainage structure mapping into GIS map, updated connectivity mapping in areas lacking information. Up to 80% mapped with connectivity.	Update MS4 Map in accordance with updated EPA Permit – i.e., catch basins, outfalls interconnectivity.
4 Revised	Water Quality Testing	DPW	Testing of Priority Water Bodies	Awaiting EPA Permit Update prior to completing further sampling.	Awaiting EPA Permit Update prior to completing further sampling.
7 Revised	Regulatory Review	DPW, Planning Board, BOH, Con. Comm.	Regulatory Revisions and Action	Reviewed regulations and identify areas for revisions. No revisions proposed during this Permit Year.	Review regulations and identify areas for revisions
8 Revised	Permit Enforcement	DPW, Planning Board, BOH, Con. Comm.	Local Construction Site Oversight and Enforcement	Ongoing to comply with local bylaws, state and federal requirements	Ongoing to comply with local bylaws, state and federal requirements
9 Revised	Misconnection/Illegal Dumping and Correction	DPW, BOH	Connectivity Mapping, Bylaw Enforcement and Fines	No illegal connections identified during this period	Continue local bylaw enforcement

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
7	Regulatory Review	DPW, Planning Board, BOH, Con. Comm.	Regulatory Revisions to Bylaws as Necessary	No revisions proposed during this permit year.	Review regulations and identify areas for revisions
Revised					
8	Permit Enforcement	DPW, Planning Board, BOH, Con. Comm.	Local Construction Site Oversight and Enforcement	Ongoing to comply with local bylaws, state and federal requirements	Ongoing to comply with local bylaws, state and federal requirements
Revised					
10	Improved As-Built Review	DPW, Planning Board	Electronic As-Built Submittals on Town GIS System	Continued local bylaw enforcement	Develop protocol for submitting as-built electronically and incorporating those files into the Town's GIS system.
Revised					
19	Dam Inspections	DPW	Phase I ODS Report	A structural assessment of the Town's dam completed in August 2006.	Address report findings and conclusions.
Revised					

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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
7	Regulatory Review	DPW, Planning Board, BOH, Con. Comm.	Regulatory Revisions to Bylaws as Necessary	No revisions proposed during this permit year.	Review regulations and identify areas for revisions
Revised					
8	Permit Enforcement	DPW, Planning Board, BOH, Con. Comm.	Local Construction Site Oversight and Enforcement	Ongoing to comply with local bylaws, state and federal requirements.	Ongoing to comply with local bylaws, state and federal requirements.

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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
11 Revised	Improved Street Sweepings	DPW		Semi-annual Collections	Semi-annual Collections
12 Revised	Improved Catch Basin Cleanings	DPW		Semi-annual Collections	Semi-annual Collections
13 Revised	Household Hazardous Waste Days	DPW		Annual Collection	Annual Collection
14 Revised	Drain Stenciling	DPW	Aquifer Protection Area	No stenciling during this previous Permit Year	Stencil drains in Aquifer Protection Area
18 Revised	Employee Training	DPW	Seminar Attendance	Attended MS4 Permit Update training sponsored by Plymouth County Highway Association	Will continue to attend training seminar throughout the next permit year.

Additions

During this Permit Year, the Town removed blockages, brush and other obstructions from approximately 3,000 linear feet of ditches and streams.

Part IV. Summary of Information Collected and Analyzed

Permit Year 1 Activities and Information

During Permit Year 1, the Town reviewed the local, state and federal bylaws relative to stormwater and aquifer protection, and determined that they appeared to be adequately regulated and in conformance with the Massachusetts Stormwater Management Policy. Minor revisions may be required for informing local project proponents of the Phase II one-acre NPDES requirement. The Town also received a project approval certificate from the Massachusetts Water Abatement Trust State Revolving Fund for \$250,000 during the previous period.

Permit Year 2 Activities and Information

During Permit Year 2, an outfall inspection program revealed that of the estimated 206 outfall pipe locations, 60 locations estimated to be on public property were observed to have dry weather flow in November 2004. These locations were field screened for the following:

1. pH;
2. Temperature;
3. Total Dissolved Solids;
4. Specific Conductance; and
5. Turbidity.

Based on the field data, 31 of the outfall locations were resampled for the following in December 2004:

1. E-coli;
2. Total Phosphorous,
3. Dissolved Phosphorous,
4. Ammonia,
5. Surfactants, and
6. Total Suspended Solids.

Of these samples, 8 locations had elevated levels of e-coli above the State's Secondary Maximum Contaminant level of 126 (colonies/100 mL). Elevated levels ranged from 160 to 520 colonies/100 mL. Elevated levels of e-coli may be representative of warm blooded animals (such as humans) or cold blooded animals. Following the wet weather testing and further discussions with the Town, additional testing of Fecal Coliform bacteria or Fecal Strep may be recommended to ascertain potential sources.

In April 2004, Photogrammetric Technology Inc. (PTI) conducted aerial photography of the Town. The 660 scale color aerial

photography was supplemented by ground control appropriate for ASPRS Class I standards for large scale mapping and National Map Accuracy Standards. Planimetric data was developed on the Massachusetts State Plane coordinate system of 1983 (U.S. Survey in feet) and the National Geodetic Vertical Datum (NGVD) of 1988. Project deliverables included:

- Three (3) copies of a Ground Control Survey Report.
- Three (3) copies of an Analytical Aerial Triangulation Report.
- One (1) set of 500-scale planimetric drawings (to be replaced in the future by 100 scale mapping).

All digitized data was in AutoCAD 2000 and ArcView 8.3 format. The features layered included the following:

- Edge of Pavement
- Unpaved Roads
- Road Centerline
- Driveway
- Parking
- Bridges
- Buildings
- Buildings under Construction
- Mobile Homes and Trailers
- Pools
- Hydrographic Features (Lakes, Ponds, Rivers, Streams, Swamps)
- Drainage Ditches
- Airports
- Railroads
- Transmission Pylons
- Transformer Stations

- Property Fences and Walls

- Woodlands and Treelines (by linetype not scalloped)

- Utility Features (Poles, Manholes, Catch Basins, Hydrants, Vaults).

Topographic Features (Index Contour, Intermediate Contour, Spot Elevations) are in production and the data has been developed in both AutoCAD and ArcInfo format. The next stage will be overlay of assessor map information

The Town continued to provide updates to the public through water bill mailings and postings on the local WEB site, and continued to work with local watershed associations on possible funding sources and ways in which to promote volunteerism.

The Town took part in employee training seminars sponsored by the Plymouth County Highway Association (PCHA), and continued to improve its good housekeeping programs.

Permit Year 3 Activities and Information

During the Permit Year 3, the Town continued its review of local, state and federal bylaws relative to stormwater and aquifer protection, and determined that they continue to be adequately regulated and in conformance with the Massachusetts Stormwater Management Policy. The Town also continued its long range GIS mapping of its storm drainage system and increased its public awareness efforts. Work was conducted under Massachusetts Water Abatement Trust State Revolving Funds.

The Town will continue to provide updates to the public through water bill mailings and postings on the local website, and continued to work with local watershed associations on possible funding sources and ways in which to promote volunteerism.

The Town took part in employee training seminars sponsored by the Plymouth County Highway Association (PCHA), and continued to improve its good housekeeping programs. An employee training seminar was conducted by the PCHA during the Summer 2005.

Permit Year 4 Activities and Information

During the Permit Year 4, the Town continued its review of local, state and federal bylaws relative to stormwater and aquifer protection, and determined that they continue to be adequately regulated and in conformance with the Massachusetts Stormwater Management Policy. The Town also continued its long range GIS mapping of its storm drainage system and increased its public awareness efforts. The Town also closed its expenditures from the Massachusetts Water Abatement Trust State Revolving Fund for its \$250,000 project and is currently seeking alternative funding sources from Town Meeting.

The Town continued to provide updates to the public through water bill mailings and postings on the local website, and continued to work with local watershed associations on possible funding sources and ways in which to promote volunteerism.

The Town took part in employee training seminars sponsored by the Plymouth County Highway Association (PCHA), and continued to improve its good housekeeping programs. An employee training seminar was conducted by the PCHA during the Summer of 2006.

An assessment of the Town's drainage structures began with inspections of local dams in August 2006. The work was conducted to meet the requirements of the Massachusetts Office of Dam Safety (ODS).

Permit Years 5 and 6 Activities and Information

During the Permit Years 5 and 6, the Town continued its review of local, state and federal bylaws relative to stormwater and aquifer protection, and determined that they continue to be adequately regulated and in conformance with the Massachusetts Stormwater Management Policy. The Town also continued its long range GIS mapping of its storm drainage system and increased its public awareness efforts.

The Town continued to provide updates to the public through water bill mailings and postings on the local website, and continued to work with local watershed associations on possible funding sources and ways in which to promote volunteerism.

The Town has taken part in employee training seminars sponsored by the Plymouth County Highway Association (PCHA), and will continue to improve its good housekeeping programs. An employee training seminar was conducted by the PCHA during the Summer 2007 & 2008.

Permit Years 7 through 10 Activities and Information

During the Permit Years 7, 8, 9 and 10, the Town continued its review of local, state and federal bylaws relative to stormwater and

aquifer protection, and determined that they continue to be adequately regulated and in conformance with the Massachusetts Stormwater Management Policy. The Town also continued its long range GIS mapping of its storm drainage system and increased its public awareness efforts through the distribution of flyers. The Town is currently seeking an annual appropriation through Town Meeting to meet the new requirements of the draft EPA Stormwater General Permit.

The Town has also taken part in employee training seminars sponsored by the Plymouth County Highway Association (PCHA), and will continue to improve its good housekeeping programs and coordinate its efforts with the Plymouth County Mosquito Control Project.

Permit Year 10 Activities and Information

During Permit Year 10, the Town expanded its connectivity mapping to areas that were lacking information. The Town is 80% complete with GIS-mapped drain pipe connectivity. The new connectivity was completed on Town Maps 34, 35, 39, 40, 46, 50, 53, 58 and 63. During this event, 6 additional outfalls were found, bringing the outfall structure total in Rockland to 222. These outfalls will be field located with a GPS unit and inventoried for pipe-specific information during one of the next field events.

Additional sampling was also conducted this permit year, the sampling occurred at 13 historically monitored locations. 3 of the 13 samples had elevated e.Coli results, and will be further evaluated for illicit discharges or connections.