



City of Middletown
Connecticut



Stormwater Management Plan
Annual Report for 2016

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Date Prepared: 12/19/2016

Stormwater Program Permit Information

1. **Permitting Authority:** State of Connecticut D.E.P.
2. **Application Number:** 200400292
3. **Permit Type:** General
4. **Permit Name:** General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Water Systems
5. **Date Issue:** 2/11/2004
6. **Date Expire:** 1/08/2009

General Information for MS4 Operator

1. **Operator Name:** Daniel Drew
2. **Operator Title:** Mayor
3. **Represented Entity:** City of Middletown
4. **Mailing Address:** 245 deKoven Drive
5. **Mail City, State, Zip:** Middletown, CT 06457
6. **Phone Number:** (860) 638-4300
7. **E-Mail Address:**
8. **Co-Permitting With:**
9. **Population:** 48,041 **Households:** 20,233 **Area (sq. mi):**42.44
10. **Official Website:** www.middletownct.gov

General Information for Primary Contact Person

1. **Name:** Thomas Nigosanti
2. **Title:** City Engineer
3. **Phone Number:** (860) 638-4862
4. **E-Mail Address:** Tom.Nigosanti@MiddletownCT.gov

General Information for Secondary Contact Person

1. **Name:** Christopher Holden
2. **Title:** Deputy Director of Public Works
3. **Phone Number:** (860) 638-4857
4. **E-Mail Address:** Christopher.Holden@MiddletownCT.gov

General Information for Receiving Waters

Receiving Water Lists: Listed below are all the identified receiving waterbodies to which identified outfalls discharge.

Receiving Streams	Receiving Waterbodies	Receiving Watersheds
Mattabesset River	Highland Pond	4600
Spruce Brook	Adder Reservoir	5206
West Spruce Brook	Mont Higby Reservoir	4604
East Spruce Brook	Cucia Park Pond	4607
Sawmill Brook	Westlake	4605
Snow Hill Brook	Miner Pond	4014
West Highland Brook	Star Mill Pond	4013
Richard's Brook	Red Road Pond	4000
Manthay Brook	Laurel Brook Reservoir	
East Fall Brook	Butternut Hollow Pond	
Fall Brook	Swales Pond	
Spoon Shop Brook	Nettis Pond	
Bradley Brook	Wesleyan Hills Pond	
East Bradley Brook	Cypress Pond	
West Bradley Brook	Dooley Pond	
Miner Brook	Pameacha Pond	
East Miner Brook	Zoar Pond	
Little River	Rubber Mill Pond	
Swamp Brook	Crystal Lake	
Connecticut River	Toll Gate Road Pond	
East Swamp Brook	Brook CVH Reservoir #1	
West Swamp Brook	Brook CVH Reservoir #2	
Coginchaug River	River Road Reservoir	
Laurel Brook	CVH Reservoir #3	
Long Hill Brook	Hubbard Pond	
Round Hill Brook		
East Round Hill Brook		
West Round Hill Brook		
Sumner Brook		
Prout Brook		
Harris Brook		
Indian Hill Brook		
Reservoir Brook		
Connecticut River		

Plan Contents Summary

The Stormwater Management Plan consists of the following Minimum Control Measures and BMPs:

Public Participation/Involvement

1. Community Clean-ups
2. Stormwater Management Plan Update

Public Education and Outreach

1. Develop Educational Resources

Illicit Discharge Detection and Elimination

1. Drainage Outlet Survey
2. Illicit Discharge Ordinance
3. Illicit Discharge Detection
4. Recycling Program
5. Sewer System Map

Construction Site Runoff Control

1. Ordinance / Regulatory Mechanism
2. Site Plan Review
3. Construction Inspection Program

Post-Construction Runoff Control

1. Water Quality & Quantity Review

Pollution Prevention/Good Housekeeping

1. Develop Pollution Prevention Plan
2. Maintenance Schedule
3. Stormwater Management System

Public Involvement/ Participation

Description:

To satisfy this minimum control measure, the City of Middletown intends to:

1. Comply with applicable State public notice requirements; and
2. Develop a public involvement/participation program that includes the public in developing, implementing, and reviewing our stormwater management plan.

EPA believes that the public can provide valuable input and assistance to a regulated small MS4's municipal storm water management program and, therefore, suggests that the public be given opportunities to play an active role in both the development and implementation of the program. An active and involved community is crucial to the success of a storm water management program because it allows for:

1. Broader public support since citizens who participate in the development and decision making process are partially responsible for the program and, therefore, may be less likely to raise legal challenges to the program and more likely to take an active role in its implementation;
2. Shorter implementation schedules due to fewer obstacles in the form of public and legal challenges and increased sources in the form of citizen volunteers;
3. A broader base of expertise and economic benefits since the community can be a valuable, and free, intellectual resource; and
4. A conduit to other programs as citizens involved in the storm water program development process provides important cross-connections and relationships with other community and government programs. This benefit is particularly valuable when trying to implement a storm water program on a watershed basis, as encouraged by EPA.

Details of BMPs and Activities

1. Community Clean-ups

Responsible Party: Various people

BMP Description:

Using volunteers for water quality monitoring will give citizens first-hand knowledge of the quality of local water bodies and provide a cost-effective means of collecting water quality data. Involve several neighborhoods through this organization to help in community clean-ups. Try to coordinate water monitoring and stream clean-up with CRGC, MRWA, Riverwatch, and Nature Conservancy. The goal is to involve the public in the water quality sampling procedures and to educate the public of water quality concerns.

Activities:

July 22 - Jonah Center hosted a river clean-up. About 30 filled canoes were filled with water chestnuts.

May 21 - A Household Hazardous Waste Collection was held at Middlesex Community College.

Sept. 24 - Annual Source to Sea Cleanup: The Connecticut River Watershed Council (CRWC) held their Annual Source to Sea Cleanup.

2. Stormwater Management Plan Update

Responsible Party: Michelle Ford, Planning & Environmental Specialist

BMP Description:

The intent of this BMP is to schedule annual public meetings to be held with the Inland Wetlands Commission to review and update the stormwater management plan.

The goal is to review past performance, suggest changes to plan, receive input from the public, and improve the effectiveness of the plan.

Activities:

The 2016 Stormwater Management Plan will be sent to the Environmental Planner. She will put it on the agenda for the Inland Wetlands Commission to review.

Public Education and Outreach

Description:

To satisfy this minimum control measure, the City of Middletown intends to:

1. Implement a public education program to distribute educational materials to the community, or conduct equivalent outreach activities about the impacts of storm water discharges on local waterbodies and the steps that can be taken to reduce storm water pollution; and
2. Determine the appropriate best management practices (BMPs) and measurable goals for this minimum control measure, and
3. Designate a responsible person for each BMP.

An informed and knowledgeable community is crucial to the success of a storm water management program since it helps to ensure the following:

1. Greater support for the program as the public gains a greater understanding of the reasons why it is necessary and important. Public support is particularly beneficial when operators of small MS4s attempt to institute new funding initiatives for the program or seek volunteers to help implement the program; and
2. Greater compliance with the program as the public becomes aware of the personal responsibilities expected of them and others in the community, including the individual actions they can take to protect or improve the quality of area waters.

Details of BMPs

1. Develop Educational Resources

Responsible Party: Kim O'Rourke, Recycling Coordinator

BMP Description:

Develop a program to distribute information to the public at meetings and at schools.

First goal is to distribute brochures to all elementary school children to bring home to their parents.

Second goal is to develop brochures for distribution to the public at meeting or to be included with water bills.

Third goal is to create a storm water hotline or web page for information and for citizen reports on polluters.

Ongoing Projects:

Received approval of \$30,000 in grant funding for waste reduction and zero waste efforts.

Maintain city website with information storm water related issues.

Project Green Lawn continued its efforts to educate the public and policy leaders about the pollution and health issues associated with traditional lawn care methods. They expanded their focus to include the health and environmental dangers of synthetic turf as well.

Followed efforts at the State level to protect public health and the environment from efforts to increase the use of lawn care chemicals.

Participant in Middletown's Environmental Collective Impact Network. Focused on organic lawn care practices and proper disposal of unused pesticides and fertilizers.

Participant in the State's Solid Waste Advisory Committee, which offers information and action items for proper solid waste disposal and recycling programs.

Active participant in CT Product Stewardship Council

Participate in conversations new product stewardship legislation for tires, carpet and batteries.

Activities:

April 19 – Event at St. Pius Church for Earth Day
April 23 – Paper shred event; distribute stormwater discharge info
April 27 – Waste Audit at St. Pius Church
April 29 – Composting presentation at Senior Center. Distribute information.
April 30 – Fishing Derby – distributed information.
May 2 - Presentation at Middlesex Community College. Distribute information
May 3 – Senior Expo - Distribution information and talk to seniors
May 7 – Riverfront Festival – Distribute information to the public
May 9 – Presentation at Grace Lutheran Preschool
May 10 – Initiated composting program and education at City Hall
May 21 – Household hazardous Waste Collection
May 14 – Kids Health Fair – distribution of information
June 11 – Electronics Collection event
Aug 27 – Paper Shred event & distribute information.
Aug 28 – Open Air Market – Education event.
Sept. 17 – Household hazardous Waste Collection
Oct. 1 – Electronics Collection
Oct. 18 – Senior Health Fair – distributed information.

Illicit Discharge Detection and Elimination

Description:

Recognizing the adverse effects illicit discharges can have on receiving waters, the final rule requires the City of Middletown to develop, implement and enforce an illicit discharge detection and elimination program. This program must include the following:

1. A storm sewer system map, showing the location of all outfalls and the names and location of all waters of the United States that receive discharges from those outfalls;
2. Through an ordinance, or other regulatory mechanism, a prohibition (to the extent allowable under State or local law) on non-storm water discharges into the MS4, and appropriate enforcement procedures and actions;
3. A plan to detect and address non-storm water discharges, including illegal dumping and future discharges, into the MS4;
4. The education of public employees, businesses, and the general public about the hazards associated with illegal discharges and improper disposal of waste; and
5. The determination of appropriate best management practices (BMPs) and measurable goals for this minimum control measure.

Discharges from MS4s often include wastes and wastewater from non-storm water sources. Illicit discharges enter the system through either direct connections (e.g., wastewater piping either mistakenly or deliberately connected to the storm drains) or indirect connections (e.g., infiltration into the MS4 from cracked sanitary systems, spills collected by drain outlets, or paint or used oil dumped directly into a drain). The result is untreated discharges that contribute high levels of pollutants, including heavy metals, toxics, oil and grease, solvents, nutrients, viruses, and bacteria to receiving waterbodies. Pollutant levels from these illicit discharges have been shown in EPA studies to be high enough to significantly degrade receiving water quality and threaten aquatic, wildlife, and human health.

Details of BMPs

1. Drainage Outlet Survey

Responsible Party: Thomas Nigosanti, City Engineer

BMP Description:

Develop a plan to inspect all outfalls to determine the presence of illegal discharges. A schedule of outfalls will be developed and the personnel when available will inspect outfalls for illegal discharges. Work will be done in the winter months, weather permitting.

Activities:

The City is being broken down into sections. Each section will have a map showing all of the detention basins and drainage outlets and their I.D. numbers. Each outlet will be inspected and photographed. When the section is complete, a report will be created listing all of the outlets, their condition, and recommended maintenance. The first section, NW Section I, is composed of 33 streets, 23 of which have drainage outlets (74), and 8 detention basins. 65 of the 74 outlets have been inspected, of those, 21 are in need of some maintenance. 7 of the 8 detention basins have been inspected, 5 are in need of minor cleaning. We will be preparing what we hope will be an annual bid to clean and restore detention basins as needed, and repair the necessary outlets.

The second section, NW Section 2, is composed of 25 streets, 10 of which have drainage outlets (34), and 2 detention basins. 30 of the 34 outlets have been inspected, of those, 10 are in need of some maintenance. 2 of the 2 detention basins have been inspected, and they are in good condition. There has been no funding or manpower available in 2016 to continue this work. We are planning to have interns, under the direction of the City's Environmental Specialist, continue this work in 2017.

2. Illicit Discharge Ordinance

Responsible Party: William Russo, Director of Public Works

BMP Description:

Create an ordinance which will regulate non-stormwater discharges into the storm system. Ordinance will include enforcement procedures and fines.

Activities:

The Common Council adopted a new Illicit Discharge Ordinance on 6/3/2013. The ordinance is listed on the City's website at this address:

<http://ecode360.com/27362076?highlight=discharging,discharged,discharger,discharges,discharge,illegal#27362076>

3. Illicit Discharge Detection

Responsible Party: Robert DeManche, Inspector

BMP Description:

Investigate in the field any reported Stormwater discharge that does not appear to be clean water. Water samples will be taken if necessary.

Activities:

- A home at 21 Overlook Drive had the discharge from the washing machine connected to the City drainage system. The owner hired a plumber to correct the problem.

4. Recycling Program

Responsible Party: Kim O'Rourke, Recycling Coordinator

BMP Description:

Continue and update the recycling program for commonly dumped household wastes such as motor oil, antifreeze, paint, pesticides, etc. Coordinate hazardous waste disposal days. Notify the public of the hazards of illegal discharges and improper disposal of wastes.

On Going Projects:

Update City website on recycling, zero waste, hazardous waste and organic lawn care issues.
Conducted monthly meetings with the Middletown Resource Recycling Advisory Committee.
Promoted paint recycling program to introduce more locations to recycle latex and oil based paint. Educated about proper paint disposal.
Continued to improve public space recycling on Main Street.
Active participant in the CT Recyclers Coalition
Continued conversations with Wesleyan University on coordinated composting efforts and better signage for recycling throughout the campus and city.
Door to door effort to improve recycling efforts on Main St.
Worked with State wide organizations to promote Zero Waste.
Active Participant in WRAP – Plastic film recycling program for the state. Education people on how to recycle plastic film and bags.
Continuous work in the Sanitation District to educate customers on recycling and proper disposal of materials.

Implemented single stream recycling to increase recycling throughout the District.
Advertise quarterly in the Recreation Bulletin to promote recycling and proper disposal of items.

Activities:

January 27 – Participate in CT Recyclers Coalition Annual Meeting. Distribute stormwater discharge info.
March 18 – Recycling Retreat with Commissioners to discuss new programs and new ways to reach out to the public.
April 18 – Presentation at St Pius Church on Zero Waste and Recycling. Distribute information.
Sept. – Work with all schools to increase recycling.

5. Sewer System Map

Responsible Party: Thomas Nigosanti, City Engineer

Name of Separate Implementing Entity: UIC / Applied Geographics

BMP Description:

The storm sewer system map is meant to demonstrate a basic awareness of the intake and discharge areas of the system. It is needed to help determine the extent of discharged dry weather flows, the possible sources of the dry weather flows, and the particular waterbodies these flows may be affecting. The existing GIS map, will be overlaid with the entire storm sewer network.

The goal is to have the entire stormwater network as an interactive layer on the city's GIS. This is a continuing process as time and funding permit. For each discharge the following information shall be included:

- a. Type, material, and size of conveyance, outfall or channelized flow (e.g. 24” concrete pipe);
- b. The name and Surface Water Quality Classification of the immediate surface waterbody or wetland to which the stormwater runoff discharges;
- c. If the outfall does not discharge directly to a named waterbody, the name of the nearest named waterbody to which the outfall eventually discharges;
- d. The name of the watershed in which the discharge is located.

Activities:

UIC / Prime EA have scanned most of our maps. They have not begun to digitize them and add the drainage system to our GIS. We plan to purchase some handheld GPS units and have interns locate our catch basins and outlets, to be added to our GIS map.

Construction Site Runoff Control

Description:

The Phase II Final Rule requires an operator of a regulated small MS4 to develop, implement, and enforce a program to reduce pollutants in storm water runoff to their MS4 from construction activities that result in a land disturbance of greater than or equal to one acre.

The small MS4 operator is required to:

1. Have an ordinance or other regulatory mechanism requiring the implementation of proper erosion and sediment controls, and controls for other wastes, on applicable construction sites;
2. Have procedures for site plan review of construction plans that consider potential water quality impacts;
3. Have procedures for site inspection and enforcement of control measures;
4. Have sanctions to ensure compliance (established in the ordinance or other regulatory mechanism);
5. Establish procedures for the receipt and consideration of information submitted by the public; and
6. Determine the appropriate best management practices (BMPs) and measurable goals for this minimum control measure.

Details of BMPs

1. Ordinance / Regulatory Mechanism

Responsible Party: Vacant, Director of Planning, Conservation & Development

BMP Description:

Update the subdivision regulations to provide the ability to regulate polluted runoff that emanates from construction sites. Discuss the possibility of a separate bond for erosion control. Bond should be able to be called on short notice to be able to react to weather related problems. For large construction projects, require copies of the General Permit for the Discharge of Stormwater and Dewatering Wastewater Associated with Construction Activities to be on file prior to commencement of construction. Procedures for enforcement of control measures are to be set.

Activities:

The City's Subdivision Regulations require new construction sites to have the proper erosion and sediment controls, and include procedures for Inspection and Enforcement:

2. Site Plan Review

Responsible Party: Vacant, Director of Planning, Conservation & Development

BMP Description:

All site plans shall be reviewed by the Planning, Conservation & Development Department and the Public Works Engineering Division for sedimentation and erosion controls. BMP's will be required where appropriate.

Activities:

Ongoing: The City’s Subdivision Regulations state what a developer needs to submit for review and approval. Both stormwater quantity and quality BMP’s are reviewed for each site, by both the Environmental Planner and the City Engineer.

3. Construction Inspection Program

Responsible Party: Vacant, Director of Planning, Conservation & Development
Thomas Nigosanti, City Engineer, Public Works Department

BMP Description:

Random inspections of construction sites will be performed by the Environmental Planner and/or the Wetlands Enforcement Officer to determine the overall compliance that is being achieved by construction operators.

Road construction projects will have regular inspection to verify compliance with plans. New subdivisions may have additional inspection by third party consultants.

Activities:

Section 4.05.02 Inspection and Enforcement of the City’s subdivision regulations states that:

“The Zoning and Inland Wetlands Enforcement Officer (ZEO) and the Public Works Department shall make periodic inspections to ensure compliance with the approved plan and that control measures and facilities are properly performed or installed and maintained. Upon finding improper installation or maintenance, The City has the authority to require compliance to the plan and/or order the contractor/developer to stop work. The Commission may ask for progress reports from the developer and/or the Zoning Enforcement Officer. “

Inspections: The City hired third party inspectors to inspect the following subdivisions:
Pashley Lane, Talia’s Trail, West Poplar Road.

Two projects designed by consultants were inspected by the consultants. They were:
Westlake Drive, Boston Road

City forces inspected the following projects:
Carlie Court (new subdivision), Highview Terrace, Ridge Road, Lindbert Street, Peck Road, Lindsey Road, Willow Avenue, Fairlawn Avenue, Overlook Avenue, Hillcrest Avenue, Deerfield Avenue, Boston Road, Dewey Street, East Main Street, deKoven Drive, Rapallo Avenue, Cedar Street, Gowin Road, Drainage Replacement in Royal Oak Subdivision, Santangelo Circle. The Public Works Department inspected these projects daily.

Post-Construction Runoff Control

Post-construction stormwater management in new development and redevelopment.

Required throughout the municipality:

develop, implement, and enforce a program to address stormwater runoff from new development and development projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into the MS4 or directly to waters of the State. This program shall ensure that controls are implemented to require develop and implement strategies which include a combination of structural and/or non-structural best management practices (BMPs) appropriate for your municipality; use an ordinance or other regulatory mechanism to address the elements of subsection (i) above regarding post-construction runoff from new development and redevelopment projects to the extent allowable under State or local law; and ensure adequate long-term operation and maintenance of BMPs.

Description:

The Phase II Final Rule requires an operator of a regulated small MS4 to develop, implement, and enforce a program to reduce pollutants in post-construction runoff to their MS4 from new development and redevelopment projects that result in the land disturbance of greater than or equal to 1 acre. The small MS4 operator is required to:

1. Develop and implement strategies which include a combination of structural and/or non-structural best management practices (BMPs);
2. Have an ordinance or other regulatory mechanism requiring the implementation of post-construction runoff controls to the extent allowable under State, or local law,
3. Ensure adequate long-term operation and maintenance of controls;
4. Determine the appropriate best management practices (BMPs) and measurable goals for this minimum control measure.

Details of BMPs

1. Water Quality & Quantity Review

Responsible Party: Thomas Nigosanti, City Engineer

BMP Description:

Water quality impacts are to be considered from the design stage of a project to determine appropriate BMP's to be required, to minimize water quality impacts; and attempt to maintain pre-development runoff conditions.

The planning process identifies the municipality's requirements concerning water quality and quantity controls, operation and maintenance policies and procedures, and enforcement procedures.

Education programs for developers and the public about project designs that minimize water quality impacts; and measures such as minimization of percent impervious area after development and minimization of directly connected impervious areas will be researched.

To ensure the appropriate implementation of the structural BMPs, pre-construction review of BMP designs; inspections during construction to verify BMPs are built as designed; post-construction inspection and maintenance of BMPs; and penalty provisions for the noncompliance with design, construction or operation and maintenance will be addressed.

Activities

Developer's Guide

On the City's website, under the Planning, Conservation and Development Department, there is an item called Developers Guide. This discusses the requirements of developers pertaining to stormwater runoff and sedimentation control.

Plan Review

Each development requires subdivision approval from the Planning and Zoning Commission. Some developments may also need Inland Wetlands Commission approval. Plans submitted must have a stormwater runoff control plan and a sediment and erosion control plan. These plans are reviewed for each specific site.

Inspection & Enforcement

Once a project is approved, a performance bond, and maintenance bond are required, along with regular inspection from the zoning enforcement officer, and the public works construction inspector.

Long Term Operation and Maintenance

The City's Public Works Department is responsible for the long term operation and maintenance of storm water improvements on new subdivisions.

Pollution Prevention/Good Housekeeping

Description:

Recognizing the benefits of pollution prevention practices, the rule requires an operator of a regulated small MS4 to:

1. Develop and implement an operation and maintenance program with the ultimate goal of preventing or reducing pollutant runoff from municipal operations into the storm sewer system;
2. Include employee training on how to incorporate pollution prevention/good housekeeping techniques into municipal operations such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water system maintenance. To minimize duplication of effort and conserve resources, the MS4 operator can use training materials that are available from EPA, their State, or relevant organizations;
3. Determine the appropriate best management practices (BMPs) and measurable goals for this minimum control measure.
4. Develop schedule for street sweeping and catch basin cleaning.
5. Develop a program to evaluate and repair outfalls and other drainage structures.

The Pollution Prevention/Good Housekeeping for municipal operations minimum control measure is a key element of the small MS4 storm water management program. This measure requires the small MS4 operator to examine and subsequently alter their own actions to help ensure a reduction in the amount and type of pollution that: (1) collects on streets, parking lots, open spaces, and storage and vehicle maintenance areas and is discharged into local waterways; and (2) results from actions such as environmentally damaging land development and flood management practices or poor maintenance of storm sewer systems. While this measure is meant primarily to improve or protect receiving water quality by altering municipal or facility operations, it also can result in a cost savings for the small MS4 operator, since proper and timely maintenance of storm sewer systems can help avoid repair costs from damage caused by age and neglect.

Details of BMPs

1. Develop Pollution Prevention Plan

Responsible Party: Thomas Nigosanti, City Engineer

BMP Description:

Create a Pollution Prevention Plan that includes the following:

1. Create and maintain SPPP for municipal property.
2. Train City employees according to the SPPP.
3. Create and simplify Waste Disposal Guidelines

Activities:

Prepare SPPP's

SPPP's have been prepared for the Recycling Center and the Public Works Maintenance Garage. We are preparing to hire a consultant to update the SPPP's and to assist in the new MS4 permit.

Training

There was no training performed this year.

Waste Disposal Guidelines

The City's website includes several items concerning the disposal of and recycling of various wastes. Listed on the website are electronics, cell phones, grass, sneakers, nickel cadmium batteries recycling.

There are also printed instructions available for paint disposal, bulky waste, and curbside recycling requirements.

2. Maintenance Schedule

Responsible Party: Robert Russo, Superintendent of Streets and Sanitation

BMP Description:

Finalize the maintenance plan and schedule that will be put in place for management of BMPs.

Maintenance plan to include road sweeping schedule, catch basin cleaning schedule, and storm outlet maintenance.

Activities:

Street Sweeping

CSS Industries of New haven swept the streets in the Westfield section; our department did the remainder of the town. Most streets were swept twice this year.

Catch Basin Cleaning

Our catch basin cleaning contractor, Shaw Catch Basin Cleaning, LLC, cleaned about 2,000 catch basins this year. Our own forces cleaned an additional 500 basins where needed.

Storm Outlet Maintenance

There were no outlets worked on this year.

3. Stormwater Management System

Responsible Party: Thomas Nigosanti, City Engineer
Michelle Ford, Environmental Specialist

BMP Description:

The stormwater layer of the GIS will be used to track the inventory of stormwater facilities and outfalls. This system will be used by staff to schedule and perform inspections, maintenance activities and document any other actions taken on these inventory items.

Activities:

Digitize storm system plans

UIC / Prime has scanned most of our maps.

Add Drainage system to GIS Mapping

There are currently no plans in place to have the drainage digitized onto the GIS.

Schedule Inspections of outfalls

There has been no funding or manpower available in 2016 to continue this work. We plan to purchase some handheld GPS units next year and have interns, under the direction of the City's Environmental Specialist, continue this work in 2017.

Recommend maintenance of outfalls

A plan for maintenance and repair of drainage structures will be formulated after each section has been inspected.

**BMP Assignments by Responsible Party
Public Participation/Involvement**

Community Clean-ups	Various Parties
Stormwater Management Plan Update	Michelle Ford

Public Education and Outreach

Develop Educational Resources	Kim O'Rourke
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Illicit Discharge Detection and Elimination

Drainage Outlet Survey	Thomas Nigosanti
Illicit Discharge Ordinance	William Russo
Illicit Discharge Detection	Robert DeManche
Recycling Program	Kim O'Rourke
Sewer System Map	Thomas Nigosanti

Construction Site Runoff Control

Ordinance / Regulatory Mechanism	Director of Planning, Conservation & Development
Site Plan Review	Thomas Nigosanti
Construction Inspection Program	Thomas Nigosanti, & Director of P. C. & D.

Post-Construction Runoff Control

Water Quality & Quantity Review	Thomas Nigosanti
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Pollution Prevention/Good Housekeeping

Develop Pollution Prevention Plan	Thomas Nigosanti
Maintenance Schedule	Robert Russo
Stormwater Management System	Thomas Nigosanti

CERTIFICATION

Signature Requirements

The Plan shall be signed by the chief elected official or principal executive officer, as those terms are defined in Section 22a-430-3(b) (2) of the Regulations of Connecticut State Agencies. The Plan shall be retained by the chief elected official or principal executive officer and copies retained by town officials or employees responsible for implementation of the Plan.

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

Mayor Daniel Drew
Chief Elected Official

Thomas Nigosanti, City Engineer
Preparer

Plan Review Fee

When submitting a Stormwater Management Plan as requested by the Commissioner in accordance with Section 4(f) (2) (A) each municipal permittee shall submit a plan review fee of \$187.50.

By January 1, 2005 and annually thereafter by January 1, the permittee shall submit an Annual Report to:

STORMWATER PERMIT COORDINATOR
BUREAU OF WATER MANAGEMENT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

The report shall include: A municipal plan review fee of \$187.50.