

DRAFT
For Public Review

Town of Madison, Connecticut



STORMWATER MANAGEMENT PLAN

Permit No. GSM000051

April 1, 2017

Prepared by:

Town of Madison
Engineering Department
Town Offices Building
8 Campus Drive
Madison, Connecticut 06443-2563

Town of Madison, Connecticut
Stormwater Management Plan

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Introduction

I.1 Introduction

This Stormwater Management Plan (SWMP) was prepared by the Town of Madison for the purpose of establishing, implementing, and enforcing a stormwater management program that will to the maximum extent practicable, reduce the discharge of pollutants from the Towns roadways, parking areas, and other facilities, and activities such as roadway maintenance, parks and open space maintenance, building maintenance, fleet maintenance, new construction and land disturbances, and stormwater system maintenance, in order to protect surface and ground water resources and water quality. This plan supersedes any previously prepared SWMP for the Town.

The U.S. Environmental Protection Agency published the National Pollutant Discharge Elimination System - Regulations for Revision of the Water Pollution Control Program Addressing Storm Water Discharges on December 8, 1999 as required by Section 402(p) of the Clean Water Act. These regulations are commonly referred to as the National Pollution Discharge Elimination System (NPDES) Phase II Program.

This SWMP directly addresses the requirements of the NPDES Phase II Program as implemented and administered by the Connecticut Department of Energy and Environmental Protection (CTDEEP) for the State of Connecticut. The NPDES Phase II Program is implemented by the CTDEEP under the authority of Section 22a-430 and 22a-430b of the Connecticut General Statutes through the General Permit for the Discharge of Stormwater from Small Municipal Storm Sewer Systems, Effective July 1, 2017 (MS4 General Permit).

Stormwater discharges from the Towns Department of Public Works Garage Facility and Bulky Waste Disposal and Recycling Facility are authorized under the current General Permit for the Discharge of Stormwater Associated with Industrial Activity, Effective October 1, 2016. In accordance with the requirements of this general permit, registrations for these facilities were filed with the (CTDEEP) on July 18, 2014, and the stormwater discharges were authorized under Permit No.s GSI002674 and GSI002675 on October 15, 2014.

The SWMP outlines a program of best management practices (BMPs), a timeline for thier implementation, and measureable goals for the following six minimum control measures:

- Public education and outreach
- Public involvement / participation
- Illicit discharge detection and elimination
- Construction site stormwater runoff control
- Post-construction stormwater management
- Pollution prevention / good housekeeping

The plan also includes stormwater monitoring requirements intended to evaluate the effectiveness of these implemented control measures, and requirements for revising those measures determined to not be effective in meeting the water quality goals of the plan.

The Town currently has regulations, practices, and programs in place relating to stormwater management and pollution prevention that will be continued in meeting the six minimum control measure requirements. This SWMP will coordinate and incorporate these by reference.

I.2 Town Information

The Town of Madison is located in the south central portion of the State of Connecticut in the southeast corner of New Haven County along the shoreline of Long Island Sound. The 2010 census population is given as approximately 18,000.

Bordered by Guilford, Durham, Killingworth, and Clinton.

The Town is approximately 36 square miles in aerial extent and is

The Town contains approximately 125 centerline miles of Town maintained roadways and private roads and State highways.

Interstate Route 95 bisects the Town in the east-west direction and State Routes 79, 80 and Special Service Road 450. The Connecticut Department of Transportation operates an MS4 on the State highways located in Madison.

Shoreline East railroad

The Towns Public Works, Facilities, and Beach and Recreation Departments are jointly responsible for the maintenance of the Towns roadway network, parking areas, buildings, facilities, parks, open spaces, and beaches.

The Town is located within the South Central Shoreline Regional drainage basin.

Watershed Surface Water Quality Classifications			
Watershed or Estuary ID	Name	Surface Water Quality Classification	Impaired per Water Quality Standards
CT-C1_006	Long Island Sound		Yes
5105-00_01	Chatfield Hollow Brook		Yes
5106-00_01	Hammonasset River		No
5107-00_01	Neck River		Yes
5108-00_01	East River		Yes
4607-00_01	Coghinchaug River		No

Table 1

Impaired Waterbodies					
Waterbody ID	Water Segment Description	Water Segment Length (miles)	Impaired Use	Pollutant	Cause / Potential Source

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Table 2

The surface water classifications currently assigned to Town watercourses are defined below.

Class A

Surface water is known or presumed to meet Water Quality Criteria which support designated uses, which may include potential drinking water supply; fish and wildlife habitat; recreational use; agricultural, industrial supply and other legitimate uses, including navigation.

Class AA

Designated uses include existing or proposed drinking water supply, fish and wildlife habitat, recreational use (may be restricted), agricultural and industrial supply.

East River

Hammonasset River

Neck River

TMDLs for Neck River, East River and Long Island Sound

Approximately 90% of the Towns land area has a percentage of impervious cover under 11%.

A map of impaired waters is provided in Appendix A.

Executive Summary

ES.1 Introduction

Six minimum control measures are required to be included in this SWMP to satisfy the requirements of the NPDES Phase II Program and the CTDEEP MS4 General Permit. Specific BMPs for each minimum control measure must be selected and incorporated into the plan, and implemented as part of the Towns stormwater management program.

This SWMP outlines a plan of appropriate BMPs, designates a responsible municipal department for each BMP, defines a timeline for implementation, and defines measurable goals for each of the six minimum control measures including Public Education and Outreach, Public Involvement / Participation, Illicit Discharge Detection and Elimination, Construction Site Stormwater Runoff Control, Post Construction Stormwater Management, and Pollution Prevention / Good Housekeeping. The plan requires that a combination of tasks be undertaken to carry out the BMPs selected for each measure. This includes documentation of policies, procedures and training, development of specific programs and products, conducting public information meetings, development of a Town wide storm drainage system map, outfall testing, development of new training, and additional maintenance requirements.

The BMPs selected for each minimum control measure are summarized and briefly described in this section. Specific details for each BMP are included in the respective sections for each control measure in this plan.

ES.2 Permit Requirements and Implementation Dates

The MS4 General Permit was first enacted on January 9, 2004. In 2014, based upon the 2010 US census, a change in urbanized areas within Connecticut required 8 additional municipalities to submit registrations for this permit which now classifies 121 communities as “Tier 1”. All municipalities in Connecticut are responsible for the regulations of the MS4 permit. Urbanized municipalities need to meet Tier 1 requirements and the remaining municipalities must meet Tier 2 requirements.

The CTDEEP issued a modification of the MS4 General Permit on January 20, 2016 that will become effective on July 1, 2017. This SWMP has been prepared to meet the requirements of the modified MS4 General Permit.

ES.3 Public Education and Outreach

This minimum control measure will outline a program to educate the public of the impacts of stormwater discharges on surface and groundwater resources, and inform them of the steps that can be taken to reduce stormwater pollution and protect water quality.

The following BMPs have been selected to address the Public Education and Outreach minimum control measure:

- Brochures / Fact Sheets
- Alternative Information Sources – Town Web Site
- Library of Educational Materials
- Storm Drain Marking / Stenciling Program
- Water Resources and Water Supply Watershed Identification Signage

These BMPs will require the development and distribution of informational materials such as brochures / fact sheets, and providing information regarding stormwater management on the Towns web site. These

materials are expected to reach a diverse audience covering the Town wide area, and help inform the public of the importance of stormwater management. Additionally, the BMPs will require that educational materials be collected and / or developed and maintained by the Town for public use. The BMPs also require the development of a storm drain marking and water resources identification signage program intended to educate and inform the public about the Towns storm drainage system network and the water resources potentially affected by discharges from the system.

These BMPs are outlined in detail in Section 1.0.

ES.4 Public Involvement / Participation

This minimum control measure will outline a program to ensure public support as well as provide community knowledge of pollution problems by taking a proactive approach and encouraging the public to get personally involved with monitoring and improving the quality of the environment.

The following BMP's have been selected to address the Public Participation / Involvement minimum control measure:

- Public Review and Comment – Stormwater Management Plan and Annual Report
- Storm Drain Marking / Stenciling Program

A public review and comment period will be utilized to solicit comments from the public and get them to participate in the review of this SWMP.

Through the display of educational brochures at Town Hall and at public meetings, the public will be educated on stormwater quality and be able to get involved and participate at public meetings held in the Town.

The storm drain marking / stenciling program will allow the public and community groups to participate in the installation of these materials. There will also be an educational component of this participation as those involved will become more knowledgeable about the impacts of pollutants entering the Towns storm drainage system on water quality through their participation and involvement.

These BMPs are outlined in detail in Section 2.0.

ES.5 Illicit Discharge Detection and Elimination

This minimum control measure will outline a program that will prohibit, detect, and eliminate potential sources of pollutants leaking, discharging, or being dumped into the Towns storm drainage system and ultimately to waterbodies.

The following BMPs have been selected to address the Illicit Discharge Detection and Elimination minimum control measure:

- Town Ordinance Regarding Non-Stormwater Discharges
- Storm Drainage System Maps
- Illicit Discharge Detection and Elimination Program
- Future Illicit Discharge Detection and Elimination

These BMPs will include public education components and a method for the public to report illicit discharges.

These BMPs are outlined in detail in Section 3.0.

ES.6 Construction Site Stormwater Runoff Control

This minimum control measure will outline a program that will reduce pollutants in stormwater runoff from construction activities that result in a land disturbance of greater than or equal to one (1) acre.

The following BMPs have been selected to address the Construction Site Runoff Control minimum control measure:

- Requirements for Construction Site Operators or Contractors to Implement Appropriate Erosion and Sediment Control Best Management Practices
- Procedures for Notifying Construction Site Developers and Operators of Requirements for Registration
- Requirements for Construction Site Operators to Control Waste at the Site
- Procedures for Site Plan Review
- Procedures for Receipt and Consideration of Information Submitted by the Public
- Procedures for Inspection and Enforcement of Control Measures

The Town requires erosion and sediment controls for all municipal and private projects in accordance with State and Federal regulations. These requirements are outlined in the Towns Wetlands and Watercourses, Zoning, and Subdivision Regulations. These regulations will be revised to include procedures for notifying construction site developers and operators of the requirements under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities and to directly reference the Connecticut Guidelines for Soil Erosion and Sediment Control regarding the planning, design, and construction of appropriate erosion and sediment controls.

The Towns current regulations will be modified to incorporate requirements for construction site operators to control waste at the site.

Procedures for site plan review which incorporate consideration of potential water quality impacts are required by the Town currently in the Wetlands and Watercourses, Zoning, and Subdivision Regulations.

The Town government structure for processing information submitted by the public for receipt and consideration. Information submitted by the public is forwarded to the appropriate department within the Town government structure for consideration.

Site inspection and enforcement of control measures are required by the Town in the Wetlands and Watercourses, Zoning, and Subdivision Regulations.

ES.7 Post Construction Stormwater Management

This minimum control measure will outline a program that will address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects that disturb less than one acre that are part of a larger common plan of development, that discharge into the Towns storm drainage system.

The following BMP's have been selected to address the Post Construction Stormwater Management minimum control measure:

- Land Use Regulations Regarding Post Construction Stormwater Management
- Directly Connected Impervious Area Identification
- Long Term Effectiveness of Post Construction Stormwater Controls

The Towns current Inland Wetland and Watercourses, Zoning, and Subdivision Regulations will be revised to include requirements for post construction stormwater management including operation and maintenance plans for structures and facilities put in place to meet these requirements. The guidance and recommendations contained in the Connecticut Guidelines for Soil Erosion and Sediment Control, Connecticut Stormwater Quality Manual, and the CTDOT Drainage Manual will be required to be followed for all projects.

ES.8 Pollution Prevention / Good Housekeeping

This minimum control measure will outline an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing stormwater pollution from activities such as roadway maintenance, parks and open space maintenance, building maintenance, fleet maintenance, new construction and land disturbances, and stormwater system maintenance.

The following BMPs have been selected to address the Pollution Prevention / Good Housekeeping minimum control measure:

- Operation and Maintenance Program
- Employee Training Program
- Street Sweeping Program
- Catch Basin Maintenance Program
- Preventative Maintenance Program

These BMP's will require the continuation of the Towns current operation and maintenance programs.

Training will continue to be provided for the proper operation and maintenance of the Towns roadways, parking areas, and facilities. Additional training will be developed to directly address stormwater management and this SWMP. Record keeping will continue to be performed and will be modified to incorporate additional information associated with the SWMP.

Sweeping of all roadways, parking areas, and facilities will continue to be performed at least once every year. The sweeping will be performed as soon as possible after snowmelt. Priority areas such as places of public gatherings and environmentally sensitive areas will be given priority.

The Town will attempt to annually clean at least one third (1/3) of the catch basins that have reached at least half (1/2) of the capacity of the sump. These catch basins may be selected based upon routine scheduled field inspections and also inspections resulting from other program requirements. The Town will conduct routine inspections by selecting a representative number of catch basins for each roadway, parking area, and facility, once every year. If a catch basin sump is found to be more than one half (1/2) full, the catch basin will be cleaned.

The Town will continue to operate its preventative maintenance programs and will incorporate all of the requirements of the MS4 General Permit.

ES.9 Additional Requirements

The following are also required for compliance with the MS4 General Permit. A detailed explanation of each of these requirements is located in Section 7.0 of this SWMP.

- Proper Operation and Maintenance
- Availability of Information
- Keeping Plans Current
- Monitoring Requirements
- Reporting and Record Keeping
- General Discharge Requirements
- Discharges to Impaired Waters or Water bodies Subject to a Pollutant Load Reduction within a TMDL
- Regulations of Connecticut State Agencies Incorporated into the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems
- Duty to Correct and Report Violations
- Duty to Provide Information
- Correction of Inaccuracies
- Other Applicable Law

Section 1.0 Public Education and Outreach

This minimum control measure outlines a program to communicate common sources of stormwater pollution and the impacts of polluted stormwater to the public. It is intended to create increased awareness of the effects of the human environment on water quality, support for the Towns stormwater management program, increased compliance, and a reduction in the discharge of polluted runoff.

Goals:

- Raise public awareness that polluted stormwater runoff is the most significant source of water quality problems;
- Motivate residents to use Best Management Practices (BMPs) that reduce polluted stormwater runoff; and
- Reduce polluted stormwater runoff in Town as a result of increased awareness and utilization of BMPs.

1.1 Requirements

Implementation of a public education program is required to distribute educational materials to the public or conduct equivalent outreach activities regarding the sources and impacts of pollutants in stormwater discharges on surface and groundwater resources and the steps that the public can take to reduce pollutants in stormwater runoff and protect water quality.

Appropriate BMPs and measurable goals for each BMP for this minimum control measure must be determined. These must include the municipal department(s) responsible for each BMP and implementation dates for each BMP.

1.2 Best Management Practices

The following BMPs will be utilized in the implementation of the program to address the minimum control measure for Public Education and Outreach.

1.2.1 Brochures / Fact Sheets

Brochures / fact sheets or electronic media will be developed and or collected from existing sources including the United States Environmental Protection Agency (EPA), the Connecticut Department of Energy and Environmental Protection (CTDEEP), the University of Connecticut, and the Center for Watershed Protection. The brochures and fact sheets will address the sources and types of pollutants associated with stormwater runoff, the effects of stormwater runoff on the environment, and how to reduce these pollutants. The brochures and fact sheets at a minimum will also include information on:

- Septic Systems
- Grass Clippings and Leaf Management
- Pet Waste Management
- Waterfowl Management
- Fertilizer, Herbicide, and Pesticide Application
- Recycling Programs
- Impervious Surface Cover
- Construction Site Impacts

- Illicit Discharges to the Towns Storm Drainage System

The brochures or fact sheets will be available to the public at Town Hall. In addition, the brochures and fact sheets will be made available at public information meetings and through the Towns Conservation Commission, Inland Wetlands and Watercourses Agency, and Planning and Zoning Commission.

The benefits associated with this BMP include reaching a diverse audience within the Town of Madison.

1.2.2 Alternative Information Sources – Town Web Site

The Town currently maintains a web site at <http://www.madisonct.org/>. This SWMP, brochures and fact sheets, and links to additional web sites providing stormwater resources and related information will be added to the Towns web site. The information listed on the web site will address the effects of stormwater quality on the environment.

The web site will include the following links at a minimum:

- U.S. Environmental Protection Agency NPDES Stormwater Program
- CT Department of Energy and Environmental Protection Stormwater Management Program
- CT Department of Energy and Environmental Protection Watershed Management Program
- Center for Watershed Protection Stormwater Management Web Page
- Local Government Environmental Assistance Network Stormwater Web Page

The benefits associated with this BMP include creating public awareness and making information available to a large, diverse audience. The Towns web site will take advantage of current technology reaching a large audience using internet access.

1.2.3 Library of Educational Materials

A library of educational materials will be developed and maintained at Town Hall. The library will consist of brochures, fact sheets, information, and guidelines pertaining to stormwater management. The library will be available to the public.

The benefits associated with this BMP include establishing a library within the Town for data and information relating to stormwater management and quality, accessible to the public for reference.

1.2.4 Storm Drain Marking / Stenciling

Storm drain marking / stenciling involves labeling storm drainage system inlets with painted messages or prefabricated plaques, warning citizens not to dump pollutants into the inlets. The messages are generally a simple phrase or picture to remind the public that storm drainage systems connect to local waterbodies and that illegal dumping at inlets pollutes those waters.

Storm drain marking / stenciling products will be obtained from the CTDEEP and installed as part of a phased program starting in those areas closest to water resources. The Town will identify appropriate locations for installation.

The benefits associated with this BMP include increased public awareness. It will educate and demonstrate to the public the direct link between the storm drainage system and the surface waters to

which it drains. Additionally, stenciling projects can provide a lead-in to volunteer monitoring projects and increase community participation in a variety of other stormwater related activities.

1.2.5 Water Resources and Water Supply Watershed Identification Signage

An identification and installation signage program will be developed by the Town. The signs will include bridge and river information signs and public drinking water protection signs. A significant number of water resources have already been signed along the Town's local roadways. Maintenance and placement of additional signs will occur during construction and maintenance projects throughout the Town in the future.

The benefits associated with this BMP include public awareness of local water resources. These include watershed, public water supply areas, rivers, streams, and tributaries along the Town's roadways.

The Connecticut Department of Transportation has an existing signage program in place. The signage covers State highways within the Town of Madison.

The BMPs, responsible department(s), implementation dates, and measurable goals associated with this minimum control measure are detailed in the following table:

Public Education and Outreach Schedule

BMP	Municipal Department(s)	Implementation Deadline	Measurable Goal
Implement Public Education Program	Engineering	June 30, 2018	
Brochures / Fact Sheets	Engineering	June 30, 2018	
Alternative information sources – Town web site	Engineering	June 30, 2018	
Library of educational materials	Engineering	June 30, 2018	
Storm drain marking / stenciling	Engineering	June 30, 2018	
Water resources and water supply watershed identification signage	Engineering	June 30, 2018	

Section 2.0 Public Involvement / Participation

This minimum control measure is a key component to the stormwater management program as it helps to ensure broader public support and base of knowledge. Persons who are personally involved with the decision making process are less likely to challenge the program and can provide a valuable resource of knowledge that will be beneficial to the development, implementation, and enforcement of the program.

Goals:

- Involve the community in planning and implementing the town's stormwater management activities.
- Provide a minimum 30 day notice to the public for this plan and annual reports.

2.1 Requirements

The development of a public involvement / participation program that includes public participation in the review and implementation of the stormwater management program is required.

Compliance with applicable State and local public notice and Freedom of Information regulations are required when implementing a public involvement / participation program. Where notice requirements are inconsistent, the notice provisions providing for the most notice and opportunity for public comment shall be followed.

Appropriate BMPs and measurable goals for each BMP for this minimum control measure must be determined. These must include the municipal department(s) responsible for each BMP and implementation dates for each BMP.

2.2 Best Management Practices

The following BMP's will be utilized in the implementation of the program to address the minimum control measure for Public Participation and Involvement:

2.2.1 Public Review and Comment – Stormwater Management Plan and Annual Report

Prior to finalization of the SWMP, a draft copy of the SWMP will be made available to the public for review and comment. In addition, each year, the Towns Annual report will be made available to the public for review and comment. Copies of the SWMP and Annual Reports will be made available on the Towns web site and at the Town Hall and the E.C. Scranton Memorial Library for review.

In addition, reasonable efforts to inform the public of the opportunity to review these documents will be made by the Town including public notice in a local newspaper and posting of notices at public places.

The public notice will allow for a 30 day comment period, will include contact information for the responsible person to send comments to, and will be published annually no later than January 31st each year.

2.2.2 Storm Drain Marking / Stenciling Program

The materials collected from the CTDEEP to be used for the storm drain marking / stenciling program outlined in the Public Education and Outreach control measure in Section 1.0 will be made available to community groups within the Town for installation.

The benefits associated with this BMP include increased public participation in the Town's stormwater management programs and increased awareness by the public. It will educate and demonstrate to the public the direct link between the storm drainage system and the surface waters to which it drains.

The BMPs, responsible department(s), implementation dates, and measurable goals associated with this minimum control measure are detailed in the following table:

Public Involvement / Participation Schedule

BMP	Municipal Department(s)	Implementation Deadline	Measurable Goal
Comply with public notice requirements for Stormwater Management Plan and Annual Reports	Engineering	July 1, 2017	
Storm drain marking / stenciling program	Engineering	July 1, 2017	

Section 3.0 Illicit Discharge Detection and Elimination

This minimum control measure is critical to the success of the stormwater management program as it will identify and eliminate non-stormwater discharges that contribute high levels of pollutants including heavy metals, toxic materials, oil and grease, solvents, nutrients, viruses, and bacteria to receiving waterbodies.

Pollutant levels from these illicit discharges have been shown to be high enough to significantly degrade receiving water quality and threaten aquatic, wildlife, and human health.

Goal:

Find the source of any illicit discharges; eliminate those illicit discharges; and ensure ongoing screening and tracking to prevent and eliminate future illicit discharges.

3.1 Requirements

Urbanized Areas, Catchments with a Directly Connected Impervious Area Greater than Eleven (11%) Percent, and Discharges to Impaired Waters:

3.1.1 Develop, implement, and enforce a program to prohibit, detect and eliminate existing illicit discharges, as defined in 40CFR 122.26(b)(2), and detect and address future illicit discharges.

3.1.3 Inform Town employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste.

3.1.4 Develop a program for public reporting of illicit discharges.

3.1.5 Develop a map or series of maps at a minimum scale of 1"=2000' and maximum scale of 1"=100' showing all stormwater discharges from a pipe or conduit owned or operated by the Town.

3.1.6 Develop and implement a program for screening of storm drainage system outfalls.

3.1.7 Maintain records of illicit discharge abatement actions and include such records in the Annual Report submitted to the CTDEEP as required under the MS4 General Permit.

Appropriate BMPs and measurable goals for this minimum control measure must be determined. This must include the municipal department(s) responsible and implementation dates for each BMP.

3.2 Best Management Practices

The following BMPs will be utilized in the implementation of the program to address the minimum control measure for Illicit Discharge Detection and Elimination.

3.2.1 Town Ordinance Regarding Non-Stormwater Discharges

The Town does not allow non-stormwater discharges into storm drainage systems owned and maintained by the Town. The Town ordinances will be reviewed to determine if an existing ordinance is in place. If there is not an existing ordinance prohibiting non-stormwater discharges, a new ordinance will be developed and implemented. If an existing ordinance is in place, it will be reviewed and if necessary, updated to conform to the requirements of the MS4 General Permit.

Upon identifying a non-stormwater discharge, the source of the discharge shall be determined and if found to be beyond or outside the Town's storm drainage system, the owner will be notified by the Town Attorney of the violation. If the non-stormwater discharge is from a Town facility, the source location shall be confirmed and corrective actions taken to eliminate the non-stormwater discharge.

The Town will continue to prohibit these discharges and will use all available resources for its enforcement.

3.2.2 Storm Drainage System Maps

A storm drainage system map(s) will be developed, showing the location of all outfalls and the names and locations of all waters of the Town that receive discharges from those outfalls. The map(s) will also depict interconnections of the Town's storm drainage system with the system of the State or adjoining municipalities. The map will include, but not be limited to, Town owned facilities including roadways and parking lots. The map(s) scale will be a minimum of 1"=2000' and a maximum of 1"=100' and will include for each discharge, the following information

- a. Type, material, size, and location of conveyance, outfall, or channelized flow.
- b. Name and surface water quality classification of immediate surface waterbody or wetland discharged into, or name of nearest named waterbody downstream.
- 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.

The map(s) will be developed using base mapping, existing data records, and field surveys. The base map will be established on to which the storm sewer information will be overlaid. The base map will consist of the following features:

- Major Roads
- Local Roads
- Water Features
- Wetlands
- Stormwater Outfalls

Field surveys will be performed to verify existing structure locations and locate missing structures.

The Town will establish a system (database) to manage all of the information associated with the map(s). The database will utilize a Geographical Information System (GIS) to build and query the information, which will be accessible to all Town departments. The database will include but not limited to the following information associated with outfalls:

- Discharge Location
- Pipe Location
- Water Receiving Discharge

- Pipe Diameter
- System Type
- Flow
- End Type
- Pipe Flow
- Flow Appearance
- Odor Presence
- Erosion at Outfall
- Scour Protection
- Physical Condition
- Blockage
- Date
- ID Number

The storm drainage system map is a component of the program that will require continuous maintenance after its initial development. The Town will periodically update the map with the latest storm drainage system configurations and information in the future.

The benefits associated with this BMP include providing awareness of the intake and discharge areas of the Towns systems. This information will be helpful in determining the extent of dry weather flows, potential sources and the particular waterbodies that these flows may be affecting. The map will also be useful in identifying the responsible parties associated with specific illicit discharges.

3.2.3 Illicit Discharge Detection and Elimination Program

A program will be developed and implemented to detect, locate, and eliminate illicit discharges into the Towns storm drainage system. The plan will utilize sampling / monitoring techniques, personnel and equipment, along with the storm drainage system map(s) (Section 3.2.2) for locating sources of illicit discharges.

Stormwater monitoring shall be conducted by the Town annually. Samples shall be collected from discharges resulting from a storm event that is greater than 0.1 inch in magnitude and that occurs at least 72 hours after any previous storm event of 0.1 inch or greater. Runoff events resulting from snow or ice melt cannot be used to meet the minimum annual monitoring requirements. Grab samples shall be used for all monitoring. Grab samples shall be collected during the first (6) hours of a storm event discharge. A field sample of ph, turbidity and conductivity will be taken at the site.

The following information shall be collected for the storm events monitored:

- Date
- Air temperature
- Time of the start of the discharge
- Time of sampling
- Magnitude (in inches) of the storm event sampled

- Duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event

Unless otherwise specified, all pollutant parameters shall be tested according to methods prescribed in Title 40, CFR, Part 136 (1990). Testing of these parameters shall be performed at certified State laboratories. The parameters to be tested at each discharge point shall include:

- pH(SU) (taken with field equipment)
- Hardness (mg/l)
- Conductivity (umhos) (taken with field equipment)
- Oil and grease (mg/l)
- Chemical Oxygen Demand (mg/l)
- Turbidity (ntu) taken with field equipment)
- Total Suspended Solids (mg/l)
- Total Phosphorous (mg/l)
- Ammonia (mg/l)
- Total Kjeldahl Nitrogen (mg/l)
- Nitrate plus Nitrite Nitrogen (mg/l)
- E. coli (col/100ml)
- In addition to this list of parameters, uncontaminated rainfall pH shall be measured at the time the runoff sample is taken (taken with field equipment).

The Town will sample/monitor six (6) different outfalls annually. At least two (2) outfalls shall be monitored from areas of primarily industrial development, commercial development and residential development, respectively, for a total of six (6) outfalls monitored. Each monitored outfall shall be selected based on an evaluation by the Town that the drainage area of such outfall is representative of the overall nature of its respective land use type.

In instances, where the storm drainage systems are interconnected between different owners, the Town and the other entity would be co-permittees. This could include the ConnDOT or adjacent Towns. The Town would be responsible for its system up to the tie in or connection point, while the other party would be responsible from the connection point upstream. If an illicit discharge is identified within a Town-owned system, the Town will be responsible for determining whether the sources origin is located within its system. If the illicit discharge is determined to be from a point beyond the Town's system, the Town Attorney will be notified for further action.

The Town's facilities that are currently covered under the General Permit for the Discharge of Stormwater Associated with Industrial Activity will remain under that permit, and therefore will not be subject to the requirements of this permit or covered under this stormwater management program. These facilities will be covered and operated under their respective Stormwater Pollution Prevention Plans.

Documentation, including annual reports, will be prepared, and will include information such as the number of outfalls tested, complaints received and addressed, and the number of illicit discharges and quantities of flow eliminated. Refer to Section 7 Additional Requirements for specific details regarding annual reports to the CTDEEP.

The benefits associated with these BMPs include the identification and elimination of point sources of pollutant discharges and establishing a working database of information that will be useful in locating problematic areas

3.2.4 Future Illicit Discharge Detection and Elimination

The Town will continue to monitor its storm drainage system in an effort to detect and address future non-stormwater discharges and illegal dumping and will coordinate with other municipalities and State agencies regarding these discharges.

The BMPs, responsible department(s), implementation dates, and measurable goals associated with this minimum control measure are detailed in the following table:

Illicit Discharge Detection and Elimination Schedule

BMP	Municipal Department(s)	Implementation Deadline	Measurable Goal
Develop written IDDE program	Engineering	June 30, 2018	
Establish legal authority to prohibit illicit discharges	Engineering	June 30, 2018	
Develop list and maps of all MS4 stormwater outfalls in priority areas	Engineering	June 30, 2019	
Complete illicit discharge assessment and priority ranking	Engineering	June 30, 2019	
Begin outfall investigations for highest priority discharges	Engineering	June 30, 2019	
Complete dry weather screening / sampling of all MS4 outfalls	Engineering	June 30, 2020	
Complete 80% of investigations for problem catchments	Engineering	June 30, 2020	
Complete 100% of investigations for problem catchments and 40% of all catchments	Engineering	June 30, 2022	

Section 4.0 Construction Site Stormwater Runoff Control

This minimum control measure is a critical component of the stormwater management program because polluted stormwater runoff from construction sites often flows to storm sewer systems and ultimately is discharged into local rivers and streams. Sediment is typically the main pollutant of concern but other pollutants include solid and sanitary wastes, phosphorous (fertilizer), pesticides, nitrogen (fertilizer), oil and grease, concrete truck washout, construction chemicals, and construction debris.

Sediment runoff rates from construction sites are typically greater than those of agricultural lands, and significantly greater than those of forest lands. During a short period of time, construction sites can contribute more sediment to streams than can be deposited naturally during several decades. The resulting siltation, and the contribution of other pollutants from construction sites can cause physical, chemical, and biological harm to the States waters.

Goal:

Minimize polluted stormwater runoff from construction sites and prevent it from carrying sediment into waterways via MS4 infrastructure.

4.1 Requirements

The development, implementation, and enforcement of a program, or modification of an existing program, to control stormwater discharges from new development and redevelopment projects that disturb greater than or equal to one (1) acre, including projects less than one (1) acre that are part of a larger common plan of development, that discharge into the Towns storm drainage system or directly to the waters of the State.

The program shall include but not be limited to the following requirements:

4.1.1 Land use regulations to require construction site operators or contractors to maintain consistency with the Connecticut Guidelines for Soil Erosion and Sediment Control.

4.1.2 Procedures for notifying developers, construction site operators, or contractors of the requirements for obtaining authorization under the CTDEEP General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities.

4.1.3 Requirements for construction site operators or contractors to control waste at the site such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality.

4.1.4 Procedures for site plan review, which incorporate consideration of potential water quality impacts.

4.1.5 Procedures for receipt and consideration of information submitted by the public.

4.1.6 Procedures for site inspection and enforcement of control measures.

Appropriate BMPs and measure goals for this minimum control measure must be determined. This must include the municipal department(s) responsible and implementation dates for each BMP.

4.2 Best Management Practices

The following BMPs will be utilized in the implementation of the program to address the minimum control measure for Construction Site Stormwater Runoff Control:

4.2.1 Requirements for Construction Site Operators or Contractors to Implement Appropriate Erosion and Sediment Control Best Management Practices

The Town requires erosion and sediment controls for all projects in accordance with all State and federal regulations. Several documents define the Towns regulations for requiring erosion and sediment controls associated with construction activities within the Town. These regulations include the following:

- Inland Wetland and Watercourses Regulations
- Zoning Regulations
- Subdivision Regulations

Inland Wetlands and Watercourses Regulations

Section 7.5.e of the regulations requires an applicant to include erosion and sediment controls in applications submitted for approval of a regulated activity.

To satisfy the requirements of the MS4 General Permit for implementing appropriate best management practices, the Towns regulations will be reviewed and modified if required, to be in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, for the planning, design, and construction of erosion and sediment controls and best management practices.

Zoning Regulations

Section III of the regulations requires an applicant to submit a soil erosion and sediment control plan with applications submitted for approval of as site plan or special exception permit. The regulations require an applicant to submit an erosion and sediment control plan with a narrative describing the project, schedule of construction, grading, conservation practices, and maintenance programs.

To satisfy the requirements of the MS4 General Permit for implementing appropriate best management practices, the Towns regulations will be reviewed and modified if required, to be in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control for the planning, design, and construction of erosion and sediment controls and best management practices

Subdivision Regulations

Section III of the regulations requires an applicant to submit a soil erosion and sediment control plan with applications submitted for approval of a subdivision. The regulations require an applicant to submit an erosion and sediment control plan with a narrative describing the project, schedule of construction, grading, conservation practices, and maintenance programs.

To satisfy the requirements of the MS4 General Permit for implementing appropriate best management practices, the Towns regulations will be reviewed and modified if required, to be in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, for the planning, design, and construction of erosion and sediment controls and best management practices

Site specific BMPs to be utilized on projects may include the following:

Runoff Control

- Minimize Clearing
- Land Grading
- Permanent Diversions
- Preserving Natural Vegetation
- Construction Entrances
- Check Dams
- Filter Berms
- Grass Lined Channels \ Swales
- Riprap

Erosion Control

- Mulching
- Permanent Seeding
- Sodding
- Soil Roughening
- Geotextiles
- Gradient Terraces
- Soil Retention
- Temporary Slope Drain
- Temporary Stream Crossings
- Vegetated Buffer
- Construction Sequencing
- Dust Control

Sediment Control

- Temporary Diversion Dikes
- Brush Barriers
- Silt Fence
- Sediment Basins and Stone Check Dams
- Sediment Filters and Chambers
- Sediment Traps
- Storm Drain Inlet Protection

4.2.2 Procedures for Notifying Construction Site Developers or Operators of Requirements for Obtaining Authorization

All projects with land disturbance of greater than or equal to five (5) acres associated with construction activities shall be registered under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities. Registration shall be submitted a minimum of thirty (30) days before the initiation of construction activities as required by the general permit.

For construction projects with a total disturbed area (regardless of phasing) of between one (1) and five (5) acres, the permittee shall agree to adhere to the erosion and sediment control land use regulations of the Town. No registration pursuant to Section 4 of the general permit shall be required for such construction activity as long as it receives Town review and written approval of its erosion and sediment control measures and follows the guidelines. If no review is conducted by the Town, the permittee must register and comply with Section 6 of the general permit.

The Towns Inland Wetland and Watercourse Regulations, Zoning Regulations, and Subdivision Regulations will be modified to include procedures for notifying construction site developers or operators of the requirements for registration under the general permit. Construction activities as defined in the permit include, but are not limited to, clearing, grubbing, grading, excavation, placement of fill, and dewatering activities.

4.2.3 Requirements for Construction Site Operators or Contractors to Control Waste at the Site

Building materials and other construction site wastes must be properly managed and disposed of to reduce the risk of pollution from materials such as surplus or refuse building materials or hazardous wastes. Practices such as trash disposal, recycling, proper material handling, and spill prevention and cleanup measures can reduce the potential for stormwater runoff to mobilize construction site wastes and contaminate surface or ground water.

Construction site operators shall be required to control waste including discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality.

The operators are required to control the above mentioned waste by contract specifications and all pertinent local, State and federal regulations. The Towns current Inland Wetland and Watercourse Regulations, Zoning Regulations and Subdivision Regulations will be modified to incorporate requirements for construction site operators to control waste at the site, as described in this section.

The proper management and disposal of wastes must be practiced at any construction site to reduce contamination of stormwater runoff. Waste management practices can be used to properly locate refuse piles, to cover materials that may be displaced by rainfall or stormwater runoff, and to prevent spills and leaks from hazardous materials that were improperly stored.

The following are examples of steps that should be taken to ensure proper storage and disposal of construction site wastes:

Waste Collection

Designate a waste collection area onsite that does not receive a substantial amount of runoff from upland areas and does not drain directly to a waterbody.

- Ensure that containers have lids so they can be covered before periods of rain, and keep containers in a covered area whenever possible.
- Schedule waste collection to prevent the containers from overflowing.
- Clean up spills immediately. For hazardous materials, follow cleanup instructions on the package. Use an absorbent material such as sawdust or kitty litter to contain the spill. Handling and disposal of all hazardous material shall be in accordance with all state and federal regulations.
- During the demolition phase of construction, provide extra containers and schedule more frequent pickups.
- Collect, remove, and dispose of all construction site wastes at authorized disposal areas. The CTDEEP can be contacted to identify these disposal sites.

Contaminated / Hazardous Materials

Materials will be disposed of as solid waste in accordance with all applicable federal, State, and local regulations. Contract specifications for the excavation, transporting, stockpiling, securing, disposal of contaminated / hazardous materials and decontamination of equipment will include but not limited to the following:

- Environmental Health and Safety
- Contaminated / Hazardous Materials Excavation
- Securing, Construction and Dismantling of a Waste Stockpile and Treatment Area
- Disposal of Hazardous Waste
- Environmental Work – Solidification
- Disposal of Contaminated Railroad Ties
- Controlled Materials Handling
- Disposal of Contaminated Timber Piles
- Disposal of Controlled Materials
- Management of Reusable Controlled material
- Abandonment of Wells
- Handling and Disposal of Contaminated Concrete
- Handling Contaminated Groundwater

Pesticides

The following practices should be used to reduce risks associated with pesticides or to reduce the amount of pesticides that come in contact with stormwater:

- Follow all federal, State, and local regulations that apply to the use, handling, or disposal of pesticides.
- Do not handle the materials any more than necessary.
- Store pesticides in a dry, covered area.
- Construct curbs or dikes to contain pesticides in case of spillage.

- Follow the recommended application rates and methods.
- Have equipment and absorbent materials available in areas where pesticides are stored and used in order to contain and clean up any spills that occur.

Petroleum

The following management practices should be followed to reduce the contamination risk associated with petroleum products:

- Store petroleum products and fuel for vehicles in covered areas with dikes in place to contain any spills.
- Immediately contain and clean up any spills with absorbent materials.
- Have equipment available in fuel storage areas and in vehicles to contain and clean up any spills that occur.

Fertilizers

Phosphorous- and nitrogen-containing fertilizers are used on construction sites to provide nutrients necessary for plant growth, and phosphorous- and nitrogen containing detergents are found in wash water from vehicle cleaning areas. Excesses of these nutrients can be a major source of water pollution.

Management practices to reduce risks of nutrient pollution may include the following:

- Apply fertilizers at the minimum rate and to the minimum area needed.
- Work the fertilizer deeply into the soil to reduce exposure of nutrients to stormwater runoff.
- Ensure that erosion and sediment controls are in place to prevent fertilizers and sediments from being transported off-site.
- Use detergents only as recommended, and limit their use onsite. Wash water containing detergents should not be dumped into the storm drain system—it should be directed to a sanitary sewer or be otherwise contained so that it can be treated at a wastewater treatment plant.

Maintenance Considerations

Containers or equipment that may malfunction and cause leaks or spills should be identified through regular inspection of storage and use areas. Equipment and containers should be inspected regularly for leaks, corrosion, support or foundation failure, or any other signs of deterioration and should be tested for soundness. Any found to be defective should be repaired or replaced immediately.

4.2.4 Procedures for Site Plan Review

Procedures for Towns Zoning Regulations and Subdivision Regulations:

Construction plans and specifications are required as part of the application to be submitted to the Town for review. Submitted applications are reviewed by the Town for conformance to all of their regulations and requirements, and federal and State permit requirements relating to construction site runoff control.

The requirements are more specifically defined in the following:

Zoning Regulations

Section 29 of the regulations outlines the requirements for applications and supporting information that will enable Town staff and the Planning and Zoning Commission to review applications for site plan or special exception permit approval.

Subdivision Regulations

Section 6 of the regulations outlines the requirements for applications and supporting information that will enable Town staff and the Planning and Zoning Commission to review applications for subdivision approval.

4.2.5 Procedures for Receipt and Consideration of Information Submitted by the Public

The Town utilizes the government structure for processing information submitted by the public for receipt and consideration. Information submitted by the public is forwarded to the appropriate department within the Towns government structure.

4.2.6 Procedures for Site Inspection and Enforcement of Control Measures

Site inspection and enforcement of control measures are required by the Town in the Inland Wetlands and Watercourses Regulations, Zoning Regulations, and Subdivision Regulations.

Inland Wetlands and Watercourses Regulations

Section 15.2 of the regulations authorizes the Towns Inland Wetlands Enforcement Officer to make inspections of permitted activities.

Zoning Regulations

Section 4.3 of the regulations indicates that the Towns Zoning Enforcement Officer shall inspect sites to insure compliance with the provisions of the approval.

Subdivision Regulations

These regulations shall be modified to include specific provisions regarding the inspection and enforcement of control measures associated with projects approved under the Subdivision Regulations.

The BMPs, responsible department(s), implementation dates, and measureable goals associated with this minimum control measure are detailed in the following table:

Construction Site Stormwater Runoff Control Schedule

BMP	Municipal Department(s)	Implementation Deadline	Measurable Goal
Develop / implement plan for interdepartmental coordination	Engineering Land Use	July 1, 2017	
Review site plan proposals for stormwater quality concerns	Engineering Land Use	July 1, 2017	

Conduct site inspections	Engineering Land Use	July 1, 2017
Implement procedure for public involvement	Engineering Land Use	July 1, 2017
Notify developers about DEEP permitting obligations	Land Use	July 1, 2017
Implement, upgrade and enforce legal authority regarding land disturbance and development	Engineering Land Use	June 30, 2019

Section 5.0 Post Construction Stormwater Management

This minimum control measure is a critical component of the stormwater management program because stormwater runoff from developed sites often flows to storm sewer systems and ultimately is discharged into local rivers and streams. Runoff from these development and/or redevelopment areas has been shown to significantly affect receiving waterbodies.

Many studies indicate that prior planning and design for the minimization of pollutants in post-construction stormwater discharges is the most cost-effective approach to stormwater quality management.

There are two significant water quality impacts generally associated with post-construction runoff. The first is caused by an increase in the type and quantity of pollutants in stormwater runoff. As runoff flows over areas altered by development, it picks up harmful sediment and chemicals such as oil and grease, pesticides, heavy metals, and nutrients (e.g., nitrogen and phosphorus). These pollutants often become suspended in runoff and are carried to receiving waters, such as lakes, ponds, and streams. Once deposited, these pollutants can enter the food chain through small aquatic life, eventually entering the tissues of fish and humans.

The second significant water quality impact occurs due to the increased quantity of water delivered to the waterbody during storms. Increased impervious surfaces interrupt the natural cycle of gradual percolation of water through vegetation and soil. Instead, water is collected from surfaces such as asphalt and concrete and routed to drainage systems where large volumes of runoff quickly flow to the nearest receiving waterbody. The effects of this process include stream bank scouring and downstream flooding, which often leads to a loss of aquatic life and damage to property.

An effective post construction stormwater management program will minimize water quality impacts and attempt to maintain pre-development runoff conditions.

Goal:

Mitigate the long-term impacts of new and re-development projects on water quality through proper use of low impact development and runoff reduction practices.

5.1 Requirements

The development, implementation, and enforcement of a program, or modification of an existing program, is required to address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one (1) acre, including projects less than one (1) acre that are part of a larger common plan of development, that discharge into the Towns storm drainage system or directly to the waters of the State. The program shall ensure that controls are implemented to require appropriate infiltration practices, reduction of pervious surface, creation of or conversion to sheet flow, measures and/or structures to reduce sediment discharge, and any other innovative measures that will prevent or minimize water quality impacts, to the maximum extent practicable. The program shall include the following:

5.1.1 The establishment of land use regulations that require, to the maximum extent practicable, consideration of the use of low impact development and stormwater runoff reduction site planning and development practices identified in the Connecticut Stormwater Quality Manual

5.1.2 Require stormwater runoff reduction goals for development and redevelopment projects based on percentages of directly connected impervious areas.

5.1.3 Identify the directly connected impervious area that contributes stormwater runoff to each outfall within the Town and revise the areas as development or redevelopment projects may increase or reduce such directly connected impervious areas.

5.1.4 Implementation of a maintenance plan that will ensure the long term effectiveness of post-construction stormwater controls including retention and detention facilities and treatment structures within urbanized areas, catchments with directly connected impervious area greater than eleven (11%) percent, and discharges to impaired waters.

Appropriate BMPs and measurable goals for this minimum control measure must be determined. These must include the municipal department(s) responsible and implementation dates for each BMP.

5.2 Best Management Practices

The following BMPs will be utilized in the implementation of the program to address the minimum control measure for Post Construction Stormwater Management:

5.2.1 Land Use Regulations Regarding Post Construction Stormwater Management

The Towns current Inland Wetland and Watercourses, Zoning, and Subdivision Regulations will be reviewed and modified to require that applicants seeking approvals or permits for development or redevelopment projects consider the use of low impact development and stormwater runoff reduction site planning and development practices prior to the use of other allowable practices under the regulations.

At a minimum, these practices shall be consistent with those identified in the Connecticut Stormwater Quality Manual and specifically include:

- Minimization of impervious surfaces
- Encouragement of the use of green infrastructure
- Limitation of managed turf areas
- Preservation of ecologically sensitive areas
- Reduction of the effect of thermal impacts of stormwater runoff
- Avoidance of hydromodification of streams and other waterbodies
- Protection of trees and other vegetation
- Protection of native soils and minimization of soil compaction

The current land use regulations shall also be modified to include the following stormwater runoff reduction requirements:

1. For the development or redevelopment of sites that are currently developed with directly connected impervious area of forty (40%) percent or greater, one-half the water quality volume for the site shall be retained on-site.

2. For all new development and for redevelopment of sites with directly connected impervious area of less than forty (40%) percent, the full water quality volume for the site shall be retained on-site.

5.2.2 Directly Connected Impervious Area Identification

The Town will develop a program to identify the directly connected impervious area that contributes stormwater runoff to each outfall within the Town. The identification of the directly connected impervious areas shall be based on available published mapping and/or imagery and the utilization of Geographic Information System tools and/or the methods published by the University of Connecticut Center for Land Use Education and Research.

The program shall include the revision of the areas for each outfall as development or redevelopment projects may increase or reduce such directly connected impervious areas.

The Town shall document the progress of this program in the Annual Reports submitted to the CTDEEP in accordance with the requirements of the MS4 General Permit.

5.2.3 Long Term Effectiveness of Post Construction Stormwater Controls

The Town will review and modify its current maintenance programs to insure the effectiveness of post construction stormwater controls including stormwater retention and detention facilities and stormwater treatment structures within urbanized areas, catchments with directly connected impervious areas greater than eleven (11%) percent, or catchments that discharge to impaired waters.

The post construction controls to be inspected and maintained shall include those owned by the Town or controlled by the Town by easement, agreement or other authority.

The BMPs, responsible department(s), implementation dates, and measureable goals associated with this minimum control measure are detailed in the following table:

Post Construction Stormwater Management Schedule

BMP	Municipal Department(s)	Implementation Deadline	Measurable Goal
Implement long-term maintenance plan for retention / detention basins and stormwater treatment structures	Public Works	June 30, 2019	
Calculate DCIA that contributes to each MS4 outfall	Engineering	June 30, 2020	
Establish legal authority and guidelines to require consideration of LID and runoff reduction in site planning	Engineering Land Use	June 30, 2021	

Section 6.0 Pollution Prevention / Good Housekeeping

This minimum control measure is critical to the success of the stormwater management program as it helps to prevent or reduce pollutants in stormwater runoff and protect water quality by evaluating, modifying if required, and maintaining Town facility operations and maintenance programs.

This measure requires the Town to evaluate its programs to help ensure a reduction in the amount and type of pollution that collects on roadways, parking areas, parks, open spaces, and all Town maintained facilities which ultimately discharge to the Towns storm drainage system and to the waters of the State.

Goal:

Prevent or reduce pollutant runoff as a result of municipal operations.

6.1 Requirements

6.1.1 The development and implementation of a formal employee training program to increase awareness of water quality related issues in the management of the Towns storm drainage system.

6.1.2 The requirement to repair, rehabilitate, and retrofit the Towns storm drainage system to eliminate or reduce the discharge of pollutants from the system.

6.1.3 The requirement to maintain Town properties, parks and other facilities in a manner that will minimize the discharge of pollutants to the Towns storm drainage system.

6.1.4 The requirement to implement a program for the regular inspection and maintenance, including sweeping and catch basin cleaning, of Town streets and parking areas.

6.1.5 The development of snow and ice control management practices to minimize .

6.1.6 The requirement to coordinate with adjoining municipalities and the State regarding the contribution of potential pollutants to the Towns storm drainage system from their MS4s.

6.1.7 The requirement to develop and implement a program to control the contribution of pollutants to the Towns storm drainage system from commercial, industrial, institutional, or municipal facilities not authorized by the MS4 General Permit.

6.2 Best Management Practices

The following BMPs will be utilized in the implementation of the program to address the minimum control measure for Pollution Prevention / Good Housekeeping for municipal operations.

6.2.1 Employee Training Program

The Town will modify their current employee training programs to include education and training regarding water quality and how it relates to the Town's maintenance operations. The training will also include an overview of this SWMP and its objectives, and focus on potential sources of contaminants, pollution prevention, illicit discharge detection and spill response procedures.

6.2.2 Infrastructure Repair, Rehabilitation, and Retrofit Program

The Town will review its current inspection and maintenance programs regarding stormwater infrastructure before problems occur. The program will involve the inspection, evaluation, and repair, and rehabilitation of the Towns storm drainage system infrastructure as required.

The repair and rehabilitation of infrastructure will be coordinated with the information obtained from observations and information obtained in the outfall location and outfall monitoring program identified in Section 3.0.

The program will also include retrofits of existing systems components where warranted.

6.2.3 Property and Operations Maintenance Program

The operation of the Towns properties and their maintenance are an integral component of the Towns stormwater management program.

Maintenance involves pollution prevention techniques that reduce or eliminate pollutant loadings from existing Town owned and maintained roadways, parking lots, and facilities as part of the operation and maintenance program. Significant amounts of pollutants are generated during daily roadway and facility use, and these pollutant loadings can threaten local water quality by contributing heavy metals, hydrocarbons, sediment, and debris to stormwater runoff. Good maintenance practices including street sweeping and catch basin cleaning can help limit impacts to water resources.

These practices are especially important after the winter months, since large quantities of sand and salt are applied to the roadways to make travel possible during inclement weather.

This measure is intended to improve the efficiency of the individual programs through appropriate maintenance practices, internal procedures and scheduling. Proper development and implementation of these programs reduces the risk of water quality problems. There are several elements that are essential for the success of an operation and maintenance program including, training, record keeping, internal reporting, maintenance and preventative maintenance. The Town will include the following elements in the development and implementation of their program:

Record Keeping

Preventative maintenance is detailed further in Section 6.2.5.

Parks and Open Space

Pet Waste Management

Waterfowl Management

Buildings

Vehicles and Equipment

Leaf Management

6.2.4 Street, Parking Area, and Storm Drainage System Maintenance Program

The Town sweeps its streets and parking areas to remove sediment build up and large debris and other pollutants from curb gutters which are a potential source of pollution impacting the Towns storm drainage system and the waters of the State. Sweeping is typically performed once annually as soon as possible after the spring snowmelt to reduce pollutant loads from road salt and to reduce sand export to receiving waters.

The Town will review its current street sweeping program and modify it if required to meet the requirements of the MS4 General Permit.

The Town will sweep all of its roadways, parking areas, and facilities at least once every year. The sweeping will be performed as soon as possible after spring snowmelt.

Streets, parking areas, and facilities within urbanized areas, catchments with directly connected impervious areas greater than eleven (11%) percent, or catchments that discharge to impaired waters shall be inspected and swept with additional frequency based on active construction activity or other sources of potential pollutants where sediment/debris has been known to accumulate in higher quantities. These priority areas will be based upon the Towns knowledge and experience of the degree of sediment accumulation during the year. The first sweeping will be performed as soon as possible after spring snowmelt.

The CTDEEP has identified certain reaches of the East River and Neck River that are included on the CT 2010 303(d) list of impaired waterbodies. The Town will sweep roads draining to these waterbodies multiple times to capture more sediment along these roads in the attempt to further reduce the pollutant loading from the stormwater runoff

The management of street sweepings shall be in accordance with the CTDEEP Guideline for Municipal Management Practices for Street Sweepings and Catch Basin Cleanings, August 2007.

The Town shall document the results of its street sweeping program in the Annual Reports submitted to the CTDEEP in accordance with the requirements of the MS4 General Permit.

Catch Basin Cleaning

Catch basins with sumps are intended to retain coarse sediment by trapping this material below the invert of the outlet pipe. By trapping sediment, the catch basin prevents solids from clogging the storm sewer and being washed into receiving waters. Catch basins must be cleaned to maintain their ability to trap sediment, and consequently their ability to prevent flooding. The removal of sediment, decaying debris, and highly polluted water from catch basins has both aesthetic and water quality benefits. These include reducing foul odors, reducing suspended solids, and reducing the load of oxygen-demanding substances that reach receiving waters.

The Town will continue its existing catch basin maintenance program and modify it to meet the requirements of the MS4 General Permit.

The Town, at a minimum, will annually evaluate and, if necessary, clean catch basins and other stormwater structures that accumulate sediment at least once a year. Typically, all catch basins in Town are cleaned in the Spring and Fall each year to prevent having to clean subsurface storm sewer pipe segments between structures.

Priority areas will be established to maximize the effectiveness of the town's available resources for the routine inspections. These priority areas will be developed using the Towns knowledge of problem areas, where sediment/debris has been known to accumulate in higher quantities.

Geographic location, climate, traffic patterns, and vertical sag locations may also be factors in determining priority areas.

The required modifications will include:

On an annual basis, all Town catch basins within the urbanized areas and within catchments having a directly connected impervious area greater than 11%, or discharges to impaired waters

The prioritization of inspection and maintenance for catch basins in watersheds containing impaired waters and development, redevelopment, and construction activities.

The establishment of a schedule for the maintenance of catch basins that ensures that no catch basin sump shall be more than 50% full at any time. If a catch basin sump is more than 50% full during two consecutive inspections, the source of the sediment loading shall be investigated and abated.

The management of catch basin cleanings shall be in accordance with the CTDEEP Guideline for Municipal Management Practices for Street Sweepings and Catch Basin Cleanings, August 2007.

The Town shall document the results of its catch basin maintenance program in the Annual Reports submitted to the CTDEEP in accordance with the requirements of the MS4 General Permit.

6.2.5 Snow and Ice Control Management and Practices

The Town currently has procedures and practices in place regarding the handling and storage of solid and liquid de-icing materials in order to reduce their exposure to stormwater. These procedures and practices are covered under the CTDEEP General Permit for the Discharge of Stormwater Associated with Industrial Activity for the Towns Department of Public Works Garage Facility.

The Towns current snow and ice control program does not include the use of sand.

The Town shall review its current program, including training of employees, to ensure that the use of solid and liquid de-icing materials is optimized to minimize the discharge of these materials to the Towns streets and parking areas, and ultimately to the Towns storm drainage system.

The management of snow accumulations shall be in accordance with the CTDEEP Best Management Practices for Disposal of Snow Accumulations from Roadways and Parking Lots, February, 2011.

The Town shall document the results of its snow and ice control program in the Annual Reports submitted to the CTDEEP in accordance with the requirements of the MS4 General Permit.

6.2.6 Interconnected MS4s

The Town will coordinate with the Towns of Guilford, Durham, Killingworth, and Clinton, as well as the Connecticut Department of Transportation regarding the potential contribution of pollutants discharged to the Town of Madison from the storm sewer systems, contributing land use areas, and stormwater control

measures in the respective MS4s. This same coordination will be conducted regarding operation and maintenance procedures utilized in the respective systems.

6.2.7 Sources Contributing Pollutants to the MS4

The Town will develop and implement a program to control the potential contribution of pollutants from commercial, industrial, municipal, institutional, or other facilities, not otherwise authorized by permit issued pursuant to Sections 22a-430 or 22a-430b of the Connecticut General Statutes.

The BMPs, responsible department(s), implementation dates, and measureable goals associated with this minimum control measure are detailed in the following table:

Pollution Prevention / Good Housekeeping Schedule

BMP	Municipal Department(s)	Implementation Deadline	Measurable Goal
Track projects that disconnect DCIA	Engineering	July 1, 2017	
Continue existing formal employee training program	Engineering	July 1, 2017	
Implement infrastructure repair and rehab program	Engineering	July 1, 2017	
Implement MS4 property and operations maintenance programs	Facilities Public Works	July 1, 2017	
Implement annual street / parking sweeping program in priority areas	Public Works	July 1, 2017	
Implement coordination with interconnected MS4s	Engineering	July 1, 2017	
Develop / implement program to control other sources contributing pollutants to MS4	Engineering	July 1, 2017	
Evaluate additional measures for discharges to impaired waters	Engineering	July 1, 2017	
Develop street / parking sweeping plan outside priority areas	Public Works	June 30, 2018	
Initiate outfall screening	Engineering	June 30, 2018	
Complete inventory and mapping of discharges to impaired waters	Engineering	June 30, 2019	

Begin follow-up investigations of drainage areas	Engineering	June 30, 2019
Include progress of impaired waters investigation and screening / monitoring in Annual Report	Engineering	June 30, 2019
Develop plan to identify / prioritize retrofit projects to disconnect DCIA	Engineering	June 30, 2020
Complete CB inspection in priority areas	Engineering	June 30, 2020
Complete screening of 50% of outfalls	Engineering	June 30, 2020
Begin annual monitoring of 6 priority outfalls	Engineering	July 1, 2020
Begin implementing 1% annual DCIA disconnection	Engineering	June 30, 2021
Complete CB inspection for full MS4	Engineering	June 30, 2022

Section 7.0 Additional Requirements

7.1 Authorization Under This General Permit

7.1.1 Eligible Activities

The discharge of stormwater from or associated with a small MS4 is authorized by the MS4 General Permit, provided the requirements of Section 7.1.2 are satisfied and the activity is conducted in accordance with the conditions of this Stormwater Management Plan to the maximum extent practicable.

The MS4 General Permit authorizes the following non-stormwater discharges provided they do not contribute to a violation of water quality standards:

- Uncontaminated ground water discharges including, but not limited to, pumped ground water, foundation drains, water from crawl space pumps, and footing drains
- Irrigation water including, but not limited to, landscape irrigation and lawn watering runoff
- Residual street wash water associated with sweeping
- Discharges or flows from fire fighting activities (except training)
- Naturally occurring discharges such as rising ground waters, uncontaminated ground water infiltration (as defined at 40 CFR35.2005(20)), springs, diverted stream flows, and flows from riparian habitats and wetlands

7.1.2 Requirements for Authorization

The MS4 General Permit authorizes the activity listed in Section 7.1.1 provided:

Coastal Management Act

Such activity is consistent with all applicable goals and policies in Section 22a-92 of the Connecticut General Statutes, and shall not cause adverse impacts to coastal resources as defined in Section 22a-93(15) of the Connecticut General Statutes.

Endangered and Threatened Species

Implementation of the SWMP shall not threaten the continued existence of any species listed as endangered or threatened pursuant to Section 26-306 of the Connecticut General Statutes and must not result in the destruction or adverse modification of habitat designated as essential to such species unless otherwise exempted by Federal statute.

Aquifer Protection Areas

Such activity, if it is located within an aquifer protection area as mapped under section 22a-354b of the Connecticut General Statutes, must comply with regulations adopted pursuant to section 22a-354i of the Connecticut General Statutes.

Discharge to POTW

The stormwater is not discharged to a Publicly Owned Treatment Works (POTW).

Discharge to Groundwater

The stormwater is not discharged entirely to groundwater, meaning a stormwater discharge to a surface water will not occur up to a 100-year, 24-hour rainfall event.

New or Increased Discharges to High Quality Waters

On or before thirty (30) days prior to the commencement of a new or increased discharge to a high quality waters from its MS4, the Town must document compliance with the Connecticut Anti-Degradation Implementation Policy in the Water Quality Standards, as amended. Before commencing any new or increased discharge, the Town shall identify in its Stormwater Management Plan, the control measures it will implement to ensure compliance with anti-degradation provisions and the terms of this permit. At a minimum, the permittee shall evaluate and implement to the maximum extent practicable, practices which will prevent the discharge of the water quality volume to a surface water body or other practices necessary to protect and maintain designated uses and meet standards and criteria contained in the Water Quality Standards.

New or Increased Discharges to Impaired Waters

There shall be no increased discharges from the MS4 to impaired waters listed in categories 5 or 4b of the most recent Connecticut Integrated Water Quality Report of waters listed pursuant to Clean Water Act section 303(d) and 305(b) unless the Town demonstrates that there is no net increase in loading by the MS4 to the impaired water of the pollutant(s) for which the waterbody is impaired. The Town may demonstrate no net increase by either:

(A) Documenting that the pollutant(s) for which the waterbody is impaired is not present in the MS4's discharge and retain documentation of this finding with the Plan; or

(B) Documenting that the total load of the pollutant(s) of concern from the MS4 to any impaired portion of the receiving water will not increase as a result of the activity and retain documentation of this finding in the plan. Compliance with the requirements for runoff reduction and low impact development measures for new development and redevelopment in Sections 6(a)(5)(A) and (B) shall be considered as demonstrating no net increase. Requirements for discharges to impaired waters are included in Section 6(k) of this general permit.

7.2 Availability of Information

The Town will make a copy of the Stormwater Management Plan available on the Towns Engineering Department web site at <http://www.madisonct.org/> and in the office of the Town Clerk located at the Town offices building.

The Town will make a copy of the Stormwater Management Plan available to the following immediately upon request:

- The Commissioner of the CTDEEP
- In the case of an MS4 adjacent to or interconnected with the Towns storm sewer system, to the operator of that MS4
- In the case of a Town stormwater discharge to a water supply watershed, to the public water supply company

7.3 Proper Operation and Maintenance

The Town will properly operate and maintain all facilities and systems of treatment and control, including related appurtenances, which are installed or used by the Town to achieve compliance with the conditions of the MS4 General Permit. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by the Town when necessary to achieve compliance with the MS4 General Permit. Section 6.0 of this SWMP contains detailed information for specific operation and maintenance measures.

7.4 Keeping Plans Current

The Town will amend the SWMP whenever; (1) there is a change which has the potential to cause pollution of the waters of the State; or (2) the actions required by the SWMP fail to ensure or adequately protect against pollution of the waters of the State; or (3) the Commissioner of the CTDEEP requests modification of the SWMP. The amended Plan will be completed and all actions required by such SWMP will be completed within a time period determined by the Commissioner of the CTDEEP.

The Commissioner of the CTDEEP may notify the Town at any time that the SWMP does not meet one or more of the requirements of the MS4 General Permit. Within 30 days of such notification, unless otherwise specified by the Commissioner of the CTDEEP in writing, the Town will respond to the Commissioner of the CTDEEP indicating how it plans to modify the SWMP to address these requirements. Within 90 days of this response or within 120 days of the original notification, whichever is less, unless otherwise specified by the Commissioner of the CTDEEP in writing, the Town will then revise the SWMP, perform all actions required by the revised SWMP, and shall certify to the Commissioner of CTDEEP that the requested changes have been made and implemented. The Town will provide such information, as the Commissioner of the CTDEEP requires to evaluate the SWMP and its implementation.

7.5 Monitoring Requirements

The Town will perform monitoring in accordance with the requirements of Section 3.2.3 of this SWMP.

7.6 Reporting and Record Keeping

Records required by the MS4 General Permit will be kept for at least 5 years following its expiration or longer if requested by the Commissioner of the CTDEEP in writing. Such records, including the SWMP, will be available to the public at reasonable times during regular business hours.

The Town will submit an annual report to the CTDEEP by April 1st of each year. The annual reports will include the following:

- The status of compliance with the MS4 General Permit, an assessment of appropriateness of the identified best management practices, and progress towards achieving the implementation dates and measurable goals for each of the minimum control measures.
- All monitoring data collected and analyzed pursuant of Section 3, Illicit Discharge Detection and Elimination, of this Storm Water Management Plan.
- All other information collected and analyzed, including data collected under Section 3 of this Stormwater Management Plan.
- A summary of the stormwater activities the Town plans to undertake during the next reporting cycle.
- A change in any identified measurable goals or implementation dates that apply to the program elements.

7.7 General Discharge Requirements

- (1) If the Town initiates, creates, or originates a discharge of stormwater which is located less than 500 feet from a tidal wetland that is not a fresh-tidal wetland, such discharge shall flow through a system designed to retain the Water Quality Volume, as defined in Section 2 of the MS4 General Permit.
- (2) If the Town wishes to initiate, create, or originate a discharge of stormwater below the coastal jurisdiction line into coastal, tidal, or navigable waters for which a permit is required under the Structures and Dredging Act in accordance with Section 22a-361(a) of the Connecticut General Statutes or into tidal wetlands for which a permit is required under the Tidal Wetlands Act in accordance with Section 22a-32 of the Connecticut General Statutes, the municipality shall obtain such permit(s) from the Commissioner prior to initiating, creating or originating such discharge.
- (3) There shall be no distinctly visible floating scum, oil or other matter contained in the stormwater discharge. Excluded from this are naturally occurring substances such as leaves and twigs provided no person has placed such substances in or near the discharge.
- (4) The stormwater discharge shall not result in pollution which may cause or contribute to acute or chronic toxicity to aquatic life, impair the biological integrity of aquatic or marine ecosystems, or result in an unacceptable risk to human health.
- (5) The stormwater discharge shall not cause or contribute to an exceedance of the applicable Water Quality Standards in the receiving water.
- (6) Any new stormwater discharge to high quality waters (as identified by the Commissioner consistent with the Water Quality Standards) shall be discharged in accordance with the Connecticut Anti-Degradation Implementation Policy in the Water Quality Standards manual. At a minimum, the Town shall evaluate and implement to the maximum extent practicable practices which will prevent the discharge of the water quality volume to a surface water body or other practices necessary to protect and maintain designated uses and meet standards and criteria contained in the Water Quality Standards.
- (7) Any stormwater discharge to the waters identified in Appendix D of the MS4 General Permit shall be managed for the Stormwater Pollutant of Concern identified in the appendix consistent with the requirements in Section 6 of the MS4 General Permit. There will be no distinctly visible floating scum, oil, or other matter contained in the stormwater discharge. Excluded from this are naturally occurring substances such as leaves and twigs provided no person has placed such substances in or near the discharge.

7.8 Discharges to Impaired Waters or Water Bodies Subject to a Pollutant Load Reduction within a TMDL

If a TMDL is approved for any waterbody into which the Town discharges, the Town will review its Stormwater Management Plan if the TMDL includes requirements for control of stormwater discharges. If the stormwater discharge(s) do not meet the TMDL allocations, the Town will modify its Stormwater Management Plan to implement the TMDL within four months of the TMDL's approval and notify the Commissioner of the CTDEEP of this modification.

7.9 Regulations of Connecticut State Agencies Incorporated into the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

The Town will comply with all laws applicable to the subject discharges, including but not limited to those Regulations of Connecticut State Agencies identified in and incorporated into the MS4 General Permit.

7.10 Duty to Correct and Report Violations

Upon learning of a violation of a condition of the MS4 General Permit, the Town will immediately take all reasonable action to determine the cause of such violation, correct and mitigate the results of such violation, and prevent further such violation. The Town will report in writing such violation and such corrective action to the Commissioner of the CTDEEP within five (5) days of the Towns learning of such violation. Such information will be filed in accordance with the certification requirements of the MS4 General Permit.

7.11 Duty to Provide Information

If the Commissioner of the CTDEEP requests any information pertinent to the authorized activity or to compliance with the MS4 General Permit or with the Towns authorization under the MS4 General Permit, the Town will provide such information within thirty (30) days of such request. Such information shall be filed in accordance with the certification requirements of the MS4 General Permit.

7.12 Correction of Inaccuracies

Within fifteen days after the date the Town becomes aware of a change in any information in any material submitted pursuant to the MS4 General Permit, or becomes aware that any such information is inaccurate or misleading or that any relevant information has been omitted, the Town will correct the inaccurate or misleading information or supply the omitted information in writing to the Commissioner of the CTDEEP. Such information will be filed in accordance with the certification requirements of the MS4 General Permit.

7.13 Other Applicable Law

Nothing in the MS4 General Permit will relieve the Town of the obligation to comply with any other applicable federal, State, and local law, including but not limited to the obligation to obtain any other authorizations required by such law.

Section 8.0 Certifications and Signatures

8.1 Certification Requirements

This Stormwater Management Plan and any document, including but not limited to any notice, information, or report, which is submitted to the commissioner of the CTDEEP under the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems shall be signed by the chief elected official or principal executive officer, and by the individual or individuals responsible for preparing such document as defined in Section 22a-430-3(b) (2) of the Regulations of Connecticut State Agencies.

8.2 Certification of Registrant

I hereby certify that I am making this certification in connection with a registration under the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems, submitted to the Commissioner by the Town of Madison, Connecticut for an activity located at or within the Town of Madison, Connecticut and that all terms and conditions of the general permit are being met for all discharges which have been created, initiated or maintained and such activity is eligible for authorization under such permit. I further certify that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify that I have made an affirmative determination in accordance with Section 3(b)(8)(B) of this general permit. I understand that the registration filed in connection with such general permit is submitted in accordance with and shall comply with the requirements of Section 22a-430b of Connecticut General Statutes, as amended by Public Act 12-172. I also understand that knowingly making any false statement made in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law.

Thomas J. Banisch
Town of Madison, Connecticut
First Selectman

Date

8.3 Stormwater Management Plan Certification

I hereby certify that I am a qualified professional engineer, as defined in the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems. I am making this certification in connection with a registration under such general permit, submitted to the Commissioner by the Town of Madison, Connecticut for an activity located at or within the Town of Madison, Connecticut. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(9)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify, based on my review of all information described in Section 3(b)(9)(A) of such general permit and on the standard of care for such projects, that I have made an affirmative determination in accordance with Section 3(b)(9)(B) of this general permit. I understand that this certification is part of a registration submitted in accordance with Section 22a-430b of Connecticut General Statutes and is subject to the requirements and responsibilities for a qualified professional in such statute. I also understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law.

Michael J. Ott, P.E., L.S. License No. 70082 Date
Town of Madison, Connecticut
Director of Engineering Services and Town Engineer

Appendix A

General Permit for the Discharge of Stormwater from Small Municipal Storm Sewer Systems

