STORMWATER MANAGEMENT PLAN

Town of New Hartford, Connecticut

September 2017

Prepared By

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List of Abbreviations, Acronyms and Initialisms

BMPs – best management practices

ConnDOT – Connecticut Department of Transportation

CT – Connecticut

CT DEEP – Connecticut Department of Energy and Environmental Protection

DCIA – directly connected impervious area

DPW – department of public works

ID – identification number

USEPA – United States Environmental Protection Agency

IDDE – illicit discharge detection and elimination

LID – low-impact development

MCM – minimum control measure

MS4 – municipal separate storm sewer system

P&Z – planning and zoning

UA – urbanized area

UCONN NEMO – University of Connecticut Nonpoint Education for Municipal Officials

POC – pollutant of concern

SMP – stormwater management plan

SSO – sanitary sewer overflow

TMDL – total maximum daily load

Stormwater Management Plan

Town of New Hartford, Connecticut

Section I: Introduction

This section includes general information on the Town of New Hartford as well as background information on Municipal Separate Storm Sewer System (MS4) permitting. Additionally, contact information, other nearby MS4s, and a summary of the required minimum control measures (MCMs) is presented.

I.1 Town of New Hartford Background

The Town of New Hartford (Town), estimated population of 6,764 according to the *United States Census Bureau 2016 Population Estimates*, resides in Litchfield County, northwest of Hartford in the State of Connecticut. The town covers approximately 38 squares miles, and is governed through the board of selectmen.

Bordering towns and cities include Barkhamsted, Canton, Burlington, Harwington, and Torrington, Connecticut. Major water bodies in town include the Nepaug Reservoir, Lake McDonough, West Hill Lake, the Nepaug River, and the West Branch Farmington River. The major roadways which serve the town include Route 44 and Route 202.

I.2 Regulatory Update

The Connecticut Department of Energy and Environmental Protection (CT DEEP) released the new Small MS4 General Permit on January 20, 2016 with an effective date of July 1, 2017. This document meets the permit requirement for each small MS4 permittee to submit a Stormwater Management Plan (SMP).

I.3 Permit Registration Requirements

- The permit is effective from July 1, 2017 to June 30, 2022.
- The SMP will be posted for public review and comment. Full development and implementation of the SMP is required within five years, specifically June 30, 2022.
- Annual reports are due to CT DEEP on April 1st of each year. On January 31st, a draft copy of the annual report submission shall be made available for public review and comment. After review and finalization, the report will be submitted to CT DEEP and made available to the public.

I.4 Area Subject to Plan

The plan will implement designated MCMs throughout the boundaries of New Hartford unless otherwise noted in a MCM in the following sections. Where noted, certain BMPs only apply to the priority areas within the Town. The priority areas are defined as areas with any of the following characteristics: located in an Urbanized Area as defined by the United States Census, the area

discharges to an impaired water, or the directly connected impervious area is greater than 11 percent.

I.5 Contact Information

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Town of New Hartford
530 Main Street
P.O. Box 316
New Hartford, CT 06057
860-379-3389

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860-379-3389

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860-379-0351

I.6 Water Quality Summary

The Town of New Hartford lies within 30 local drainage basins that can be seen in **Table 1**. Most of the drainage basins flow to the major water bodies in the Town. These main surface water bodies include the Nepaug and Farmington Rivers. Although New Hartford is an inland municipality, these water bodies generally drain to Long Island Sound.

Table 1: Surface Water Quality Classifications

Drainage Basin Number	Sub Regional Basin Name	Surface Water Body & Classification	Impaired per Water Quality Standards
4300-00	Farmington River	Farmington River – B West Branch Farmington River – B	No No
4300-09	Farmington River	None	N/A
4300-10	Farmington River	East Mountain Brook – A Hallock Brook – A	No No
4300-11	Farmington River	Hallock Brook - A	No
4300-12	Farmington River	East Mountain Brook – A/AA	No
4300-13	Farmington River	None	N/A
4300-14	Farmington River	None	N/A
4305-00	Morgan Brook	West Hill Pond – A	No
4305-01	Morgan Brook	Laurel Lake – A	No
4305-02	Morgan Brook	None	N/A
4305-04	Morgan Brook	None	N/A
4308-00	East Branch Farmington River	Lake McDonough – A East Branch Farmington River – A	Yes Yes
4308-18	East Branch Farmington River	Ratlum Brook – A	No
4308-19	East Branch Farmington River	Spruce Brook – A	No
4310-00	Nepaug River	Cedar Swamp Brook – AA Nepaug River – A Nepaug River – AA Nepaug Reservoir – AA	No Yes No No
4310-01	Nepaug River	Bakersville Brook – AA	No
4310-02	Nepaug River	Torringford Brook – AA	No
4310-03	Nepaug River	North Nepaug Brook – AA	No
4310-04	Nepaug River	Finnak Brook – AA Rizzo Pond – AA	No No
4310-05	Nepaug River	North Brook – AA	No
4310-06	Nepaug River	South Nepaug Brook – AA	No
4310-07	Nepaug River	None	N/A
4310-08	Nepaug River	Marandus Brook – AA Atwood Swamp Pond – AA	No No
4310-09	Nepaug River	Beckwith Brook – AA	No
4310-10	Nepaug River	None	N/A
4310-12	Nepaug River	None	N/A
4310-13	Nepaug River	Collinsville Reservoir – AA	No
6907-00	Rock Brook	Rock Brook – AA	No
6908-01	Leadmine Brook	None	N/A
6908-03	Leadmine Brook	East Branch Leadmine Brook – AA	No

The following descriptions of water quality classifications are from the Connecticut Environmental Conditions On-line Maps and Geospatial Data for Planning, Management, Education and Research Complete Resource Guide.

Class AA

This is considered an inland water source of uniform good to excellent quality. These waters are very close to natural quality with designated uses that include drinking water supply, fish and wildlife habitat, recreational use (may be restricted), agricultural and industrial supply.

Class A

This is considered an inland water source of uniform good to excellent quality. Inland 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 B

This is considered an inland surface water source that may be of good to excellent quality. Uses include fishing, swimming, and recreation, industrial supply, and agricultural use. These waters generally have a healthy aquatic habitat, are generally rivers or large streams, and may have point source wastewater discharge.

From the *2016 State of Connecticut Integrated Water Quality Report*, **Table 2** summarizes water bodies classified as "impaired" in the Town of New Hartford.

Table 2: Impaired Waterbodies in the Town of New Hartford

Waterbody ID	Water Segment Description	Water Segment Length (mi)	Impaired Use	Pollutant	Cause/ Potential Source
CT4310-00_01 River	Nepaug River	0.9	Habitat for Fish, Other Aquatic Life and Wildlife, Recreation	None Listed	Other flow regime alterations
CT4308-00-01 River	East Branch Farmington River	1.1	Habitat for Fish, Other Aquatic Life and Wildlife, Recreation	None Listed	Other flow regime alterations
CT4308-00-1-L2_01 Lake	Lake McDonough	N/A	Fish Consumption	Mercury	Potential sources include atmospheric deposition

The CT DEEP has implemented studies of water bodies throughout the state in order to investigate specific pollutant contributions. In general, these waters were primarily screened for pollutants of concern: Bacteria, Nitrogen, Mercury and Phosphorus. The publishing of the specific waterbodies effected by these pollutants (and others) and recommended ways to reduce these pollutant loads are known as total maximum daily loads (TMDLs). The TMDLs associated with the Town of New Hartford are included in the **Table 3**.

Table 3 – TMDLs Applicable to Town of New Hartford Waterbodies

Name of TMDL	Pollutant	Waterbody
Statewide Bacteria TMDL	Bacteria	Farmington River / Munniskunk Brook / Owens Brook Russell Brook / Minister Brook
A TMDL Analysis to Achieve Water Quality Standards for Dissolved Oxygen in Long Island Sound	Nitrogen	Long Island Sound and contributing watersheds
Northeast Regional Mercury TMDL	Mercury	All CT Inland waters
Interim Phosphorus Reduction Strategy	Phosphorus	Certain CT Inland waters

Based on the DEEP Surface Water Classifications and established TMDLs, Farmington River, Lake McDonough, and Nepaug River were identified as the surface waters that were impaired and should take highest priority in the Town's efforts to address stormwater impacts.

Located in the northeast portion of the Town is the Pine Meadow Aquifer Protection Area. This area is managed by the Planning and Zoning Commission which acts as the Aquifer Protection Agency. All residents within the area have been notified of applicable stormwater BMPs.

I.7 Stakeholders

The following list contains possible stakeholders which could play a role in this SMP by providing assistance to the permittee.

- Connecticut Department of Transportation and Connecticut Transit (ConnDOT)
- Northwest Hills Council of Governments (NHCOG)
- Farmington River Watershed Association
- Farmington River Coordinating Committee

I.8 Interconnected MS4s

The following list contains other MS4 permittees are interconnected with the Town of New Hartford. The areas covered by these MS4s will not be covered under this SMP. The Town of New Hartford will coordinate implementation with these other MS4s to ensure compliance with the permit.

- The Connecticut Department of Transportation (ConnDOT) is the permittee for all state highways located within the Town of New Hartford
- Town of Canton, CT

I.9 Yearly Schedule Definition

Most permit requirements fall into a yearly schedule and measurable goals are identified in each Best Management Practice (BMP) as to what will be completed during that year. The "year" is not a calendar year, it begins on July 1 and ends on June 30. See **Table 4** for the dates for each "year" described in this SMP. Annual reporting follows the calendar year.

*Table 4 – Yearly Schedule Definition**

Permit Year	Start Date	End Date
Year 1	July 1, 2017	June 30, 2018
Year 2	July 1, 2018	June 30, 2019
Year 3	July 1, 2019	June 30, 2020
Year 4	July 1, 2020	June 30, 2021
Year 5	July 1, 2021	June 30, 2022

*Please Note reporting requirements follow the calendar year, not the fiscal year

I.10 Minimum Control Measures

Minimum compliance with the MS4 permit is accomplished by executing six MCMs and wet weather monitoring. Within each MCM, BMPs that fulfill the requirements of the permit and respective measures are used to meet the permit.

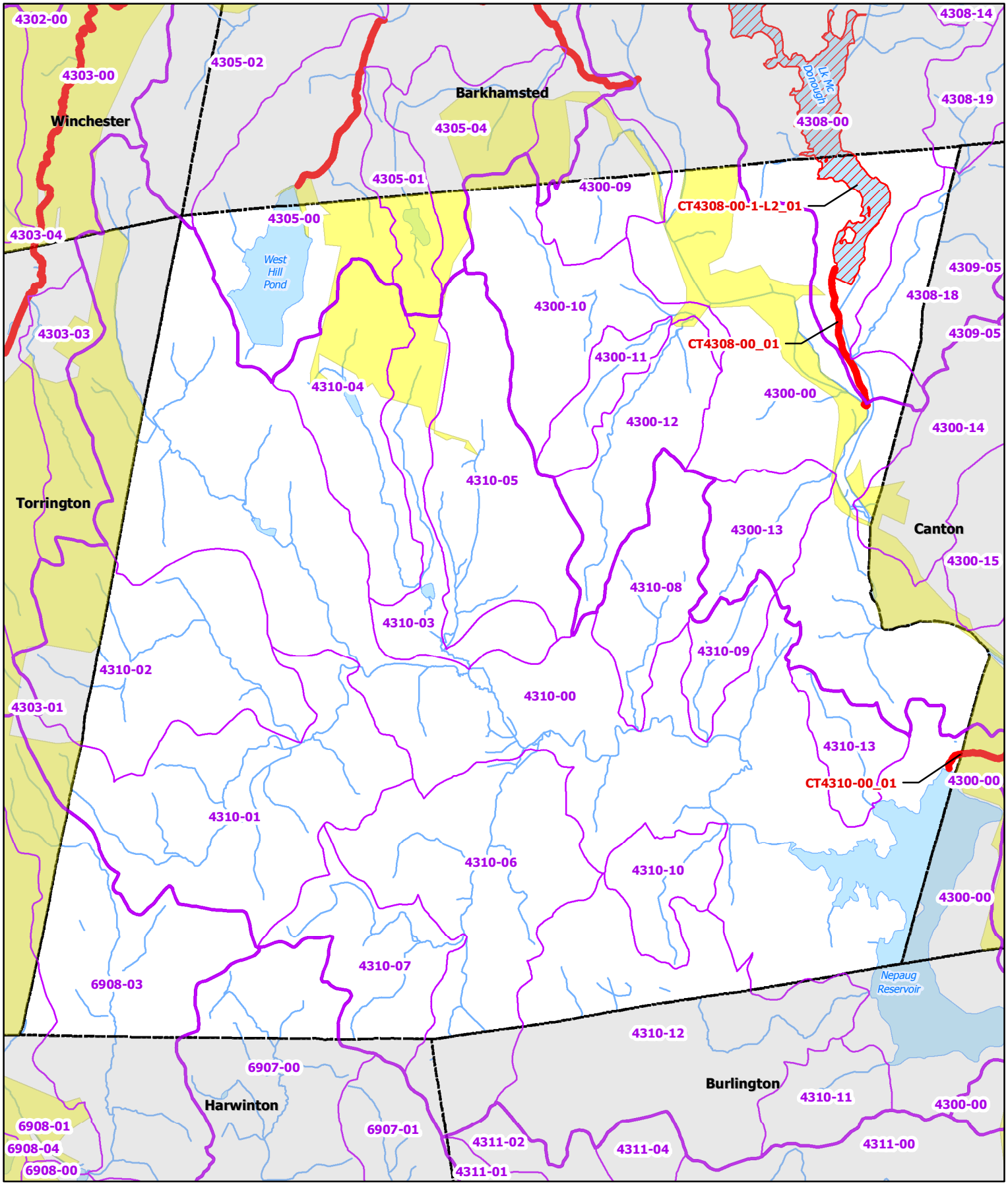
See **Table 5** for a summary of BMPs that New Hartford plans to develop and implement over the permit term and the department responsible for implementation of each BMP. These BMPs are discussed in detail in their respective MCM sections.

I.11 BMP Execution and Record Keeping

The First Selectman, or designee, will execute all BMPs and associated tasks listed in this SMP. All required documentation, supporting files, and tracking systems for the BMPs will be maintained in the First Selectman's office.

Table 5 - Best Management Practices Summary

Minimum Control Measure	Description of Best Management Practice
Public Education and Outreach	BMP 1-1 Implement public education program
	BMP 1-2 Address education/outreach for pollutants of concern
Public Involvement/ Participation	BMP 2-1 Comply with public notice requirements for the Stormwater Management Plan and Annual Reports
Illicit Discharge Detection and Elimination (IDDE)	BMP 3-1 Develop written IDDE program
	BMP 3-2 Develop list and maps of all MS4 stormwater outfalls in urbanized and priority areas (with conveyance and structure mapping)
	BMP 3-3 Develop citizen reporting program
	BMP 3-4 Establish legal authority to eliminate illicit discharges
	BMP 3-5 Develop record keeping system for IDDE tracking
	BMP 3-6 Address IDDE in areas with pollutants of concern
	BMP 3-7 Outfall and interconnection dry weather screening and sampling
	BMP 3-8 Sanitary Sewer Overflows (SSOs) inventory
Construction Site Stormwater Runoff Control	BMP 4-1 Implement, upgrade (as necessary) and enforce land use regulations or other legal authority to meet requirements of MS4 general permit
	BMP 4-2 Develop/implement plan for interdepartmental coordination in site plan review and approval
	BMP 4-3 Review site plans for stormwater quality concerns
	BMP 4-4 Conduct site inspections
	BMP 4-5 Implement procedure to allow public comment on site development
	BMP 4-6 Implement procedure to notify developers about DEEP construction stormwater permit
Post-Construction Stormwater in New Development or Redevelopment	BMP 5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning
	BMP 5-2 Enforce Low Impact Development (LID)/ runoff reduction requirements for development and redevelopment projects
	BMP 5-3 Implement Long-term Maintenance plan for stormwater basins and treatment structures
	BMP 5-4 DCIA mapping
	BMP 5-5 Address post-construction Issues in areas with pollutants of concern
Pollution Prevention/ Good House Keeping	BMP 6-1 Develop/implement formal employee training program
	BMP 6-2 Implement MS4 property and operations maintenance
	BMP 6-3 Implement coordination with interconnected MS4s
	BMP 6-4 Develop/implement program to control other sources of pollutants to the MS4
	BMP 6-5 Evaluate additional measures for discharges to impaired waters
	BMP 6-6 Track projects that disconnect DCIA
	BMP 6-7 Develop/implement infrastructure repair/rehab program
	BMP 6-8 Develop/implement plan to identify/prioritize retrofit projects
	BMP 6-9 Develop/implement street sweeping program
	BMP 6-10 Develop/implement catch basin cleaning program
	BMP 6-11 Develop/implement snow management practices
Wet Weather Monitoring	BMP S-1 Outfall screening
	BMP S-2 Inventory and mapping of discharges to impaired waters
	BMP S-3 Follow-up investigations of drainage areas
	BMP S-4 Annual monitoring of priority outfalls
Annual Reporting	Compile data and prepare annual reports



Legend

- Subregional Drainage Basin
- Local Drainage Basin
- Urbanized Area
- Impaired River (2014)
- Impaired Lake (2014)

Scale

1 inch = 5,000 feet

0 2,500 5,000 Feet

N

Town of New Hartford, Connecticut
MS4 Program

Impaired Waters

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Minimum Control Measure 1: Public Education and Outreach

This MCM outlines efforts to promote public awareness through outreach including the distribution of information on how pollutants in stormwater runoff effect general water quality. Raising awareness of stormwater runoff is the primary goal of this MCM, and in turn these efforts will encourage residents to use BMPs on their properties that will result in reduced pollutant loadings.

The following BMPs will be used to promote public education. In addition, all requirements of the 2016 CT DEEP Small MS4 permit are met by the practices below.

- BMP 1-1 Implement public education program
- BMP 1-2 Address education/outreach for pollutants of concern

These BMPs will form a comprehensive public education and outreach program that will provide awareness, public utilization, and in turn, aim to reduce pollutant loads from stormwater discharging to the Town of New Hartford water bodies.

BMP 1-1 Implement public education program

Description

The permittee will develop and implement a public education program. At a minimum, the permittee will develop materials for distribution to the public which include information reproduced from agencies like UCONN NEMO, CT DEEP, and USEPA. This information will also identify specific sources of pollutants of concern, impacts, and methods of reduction as outlined in the MCM summary.

The program will include distributing physical and electronic brochures and fact sheets. The program will include details on the methods and frequency of information distribution. The final activities selected will be determined by the end of the second permit year.

Outreach included in the program will include at a minimum, information on:

- Pet waste management
- Application of fertilizers, herbicides, and pesticides
- Impervious cover
- Impacts of illicit discharge improper waste disposal

Measurable Goals

1. Develop a public education program and all materials to be distributed under the program
2. Implement the program and distribute public education materials annually
3. Summarize the types, sources, number of, and methods by which materials were disseminated

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 1-1	Develop public education program	Develop and implement public education program Summarize data	Implement public education program Summarize data	Implement public education program Summarize data	Implement public education program Summarize data

Assessment

The program performance will be reviewed and documented annually by the First Selectman's Office.

BMP 1-2 Address education/outreach for pollutants of concern

Description

Within the first two years of the permit, the permittee will identify the applicable pollutants of concern by evaluating impaired waters as designated by the state and identified in 1) the State of Connecticut Integrated Water Quality Report; 2) total maximum daily load (TMDL) water quality implementation plans established pursuant to the Section 303 of the federal Clean Air Act applicable to the MS4; and 3) other applicable information. Materials developed under BMP 1-1 will be targeted at the identified pollutants of concern, typically in CT the pollutants of concern are phosphorus, nitrogen, bacteria, and mercury.

Measurable Goals

1. Identify pollutants of concern and incorporate into materials under BMP 1-1

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 1-2	Identify pollutants of concern and incorporate into materials under BMP 1-1	Identify pollutants of concern and incorporate into materials under BMP 1-1			

Assessment

Meeting the goal and schedule set forth herein.

Minimum Control Measure 1: Summary Table

BMP/Goal	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 1-1 Implement public education program					
Develop public education program	X	X			
Implement public education program		X	X	X	X
Summarize data		X	X	X	X
BMP 1-2 Address education/outreach for pollutants of concern					
Identify pollutants of concern and incorporate into materials under BMP 1-1	X	X			

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Minimum Control Measure 2: Public Involvement/ Participation

This MCM enables community members to become directly involved in the implementation and review of this SMP. Additionally, by developing a quality public participation program it allows for the fostering of public acceptance of the plan implementation.

The following BMPs will be used to promote public involvement/participation. In addition, all requirements of the 2016 CT DEEP Small MS4 permit are met by the practices below.

- BMP 2-1 Comply with public notice requirements for the Stormwater Management Plan and Annual Reports

The overall goal of this program is to use community members as a vital resource in planning, implementing BMPs, and maintaining stormwater systems such that the community members assume some responsibility for the outcome of the permit implementation.

BMP 2-1 Comply with public notice requirements for the Stormwater Management Plan and Annual Reports

Description

The permittee will post the SMP and annual reports in the First Selectman's Office in the Town Hall and to the Town website and will provide notification to the community that that documents are available for public comment. The notice will include the contact name (with phone number, address, and email) for who to send comments and the location where the SMP and annual reports are available. The public comment period will begin no later than January 31st of each year.

Measurable Goals

1. Make SMP and annual reports publicly available
2. Distribute notice for public review and soliciting comments by January 31st each year

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 2-1	Publish SMP and annual report Issue public notice for feedback by Jan 31st.	Publish annual report Issue public notice for feedback by Jan 31st.	Publish annual report Issue public notice for feedback by Jan 31st.	Publish annual report Issue public notice for feedback by Jan 31st.	Publish annual report Issue public notice for feedback by Jan 31st.

Assessment

All comments made during the thirty-day comment period will be reviewed, responded to, and documented with the final versions of the SMP and annual reports. A review of the availability of documents will be performed annually.

Minimum Control Measure 2: Summary Table

BMP/Goal	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 2-1 Comply with public notice requirements for the Stormwater Management Plan and Annual Reports					
Publish SMP and annual reports	X	X	X	X	X
Issue public notice soliciting comments	X	X	X	X	X

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Minimum Control Measure 3: Illicit Discharge Detection and Elimination (IDDE)

An illicit discharge is any unpermitted discharge to waters of the state that does not consist entirely of: stormwater, uncontaminated ground water, or other allowable non-stormwater discharges found in Section 3 (a)(2) of the 2016 CT DEEP Small MS4 permit. Examples include household sanitary wastewater or chemicals, effluent from septic tanks, restaurant food waste, and waste oil.

The purpose of MCM 3 is to detect and eliminate illicit discharges to the MS4 stormwater system. The permittee develops a comprehensive program that will establish legal authority to the permittee to prohibit and eliminate illicit discharges; identify illicit discharge sources through screening, sampling, and other field investigations; and eliminate illicit sources through infrastructure modification and enforcement.

MCM 3 requirements apply to the MS4 "priority" areas, which are defined by the MS4 permit as areas that meet one or more of the following criteria: (1) urbanized areas based on census data; (2) catchment areas with DCIA greater than 11%; and/or (3) catchment areas that discharge into impaired waters. The urbanized areas and impaired waters are shown on Figure 1 to provide preliminary information on the priority areas in New Hartford.

The following BMPs will be used to implement and continue the MS4 IDDE requirements.

- BMP 3-1 Develop written IDDE program
- BMP 3-2 Develop list and maps of all MS4 stormwater outfalls in urbanized and priority areas (with conveyance and structure mapping)
- BMP 3-3 Develop citizen reporting program
- BMP 3-4 Establish legal authority to prohibit illicit discharges
- BMP 3-5 Develop record keeping system for IDDE tracking
- BMP 3-6 Address IDDE in areas with pollutants of concern
- BMP 3-7 Outfall and interconnection dry weather screening and sampling
- BMP 3-8 Sanitary sewer overflows (SSOs) inventory

The goal of this program is to eliminate illicit discharges to improve the quality of the receiving waters.

BMP 3-1 Develop written IDDE program

Description

The permittee will develop a comprehensive written IDDE program that outlines how to identify, mitigate, eliminate and control illicit discharges in a systematic way. The following key components will be included in the final IDDE program:

- Legal authority (BMP 3-4)
- Statement of IDDE program responsibilities
- Stormwater system mapping (BMP 3-2)
- Sanitary sewer overflows (SSOs) inventory (BMP 3-8)
- Assessment and priority ranking of catchments
- Outfall and interconnection screening and sampling procedures (BMP 3-7)
- Catchment investigation procedures
- Procedures for removal of illicit discharges
- Employee training
- Progress reporting

Measurable Goals

1. Complete written IDDE Program with implementation schedule
2. Follow detailed schedules and requirements in IDDE Program and related BMPs
3. Annual review of IDDE Program

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 3-1	Develop IDDE Program with implementation schedule	Develop IDDE Program with implementation schedule	Implement IDDE Program Program review	Implement IDDE Program Program review	Implement IDDE Program Program review

Assessment

The program performance will be reviewed and documented annually by the First Selectman's Office.

BMP 3-2 Develop list and maps of all MS4 stormwater outfalls in urbanized and priority areas (with conveyance and structure mapping)

Description

Within the first three years of the new permit, the permittee will develop a stormwater drainage map and spreadsheet or database (excel-compatible) that includes all stormwater outfalls, structures, piping, and other conveyances at a minimum scale 1" =2000' and a maximum scale of 1" =100' **within the "priority areas"**. The following parameters will be included:

- Type, material, size, and location (latitude/longitude) of conveyance, outfall or channelized flow
- Name, water body ID, and surface water classification for the immediate surface waterbody or wetland that receives stormwater runoff or the nearest named waterbody as applicable or the nearest named waterbody to which the outfall eventually discharges.
- Watershed name and sub regional drainage basin number
- Date of most recent outfall inspection, the condition, and indicators of illicit discharges

Within the first five years of the new permit, the permittee will further develop the drainage system mapping to include mapping requirements included in the MS4 permit, Appendix B. Key additions include:

- Interconnects with MS4s and other storm sewer systems
- Municipal-owned stormwater treatment structures or systems
- Catchment delineations for use in priority rankings
- Identifications of waterbodies with impairments identified

Within the first five years of the new permit, the permittee shall complete drainage system mapping town-wide.

Measurable Goals

1. Develop stormwater drainage map and database
2. Update mapping at a minimum annually
3. Export the database into excel format for annual reports

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 3-2	Develop mapping and database for priority areas Excel Summary	Develop mapping and database for priority areas Excel Summary	Develop mapping and database for priority areas Excel Summary	Develop mapping and database with additional required info and for non-priority areas; Excel Summary	Complete mapping for entire municipality. Update mapping and database; Excel Summary

Assessment

Meeting the goals and schedule set forth herein.

BMP 3-3 Develop citizen reporting program

Description

The permittee will develop a citizen reporting program to receive reports from citizens of possible illicit discharges. The permittee will investigate all reports promptly and perform investigations and corrective actions as needed under other BMPs. The program will include clear instructions for the public describing how to submit an illicit discharge report.

All reports and follow up actions will be included in the annual report.

Measurable Goals

1. Develop citizen reporting program.

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 3-3	Develop citizen reporting program, investigate citizen reports	Develop citizen reporting program, investigate citizen reports	Investigate citizen reports	Investigate citizen reports	Investigate citizen reports

Assessment

The program performance will be reviewed and documented annually by the First Selectman's Office.

BMP 3-4 Establish legal authority to eliminate illicit discharges

Description

The permittee will establish legal authority to prohibit all illicit discharges to the storm sewer system. Legal authority will also be required to remove illicit discharges; to investigate and eliminate illicit discharges; to control discharge of spills and prohibit dumping; to enforce legal authority; and authorized fines, penalties, or to recoup costs from anyone creating an illicit discharge or spilling or dumping. The permittee will establish legal authority within two years.

Measurable Goals

1. Establish legal authority

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 3-4	Establish legal authority	Establish legal authority	Enforce legal authority	Enforce legal authority	Enforce legal authority

Assessment

Meeting the goal and schedule set forth herein.

BMP 3-5 Develop record keeping system for IDDE tracking

Description

The permittee will develop a record keeping system for tracking of information pertinent to IDDE. The information will be tracked using paper forms and an Excel database. The IDDE tracking system will be coordinated with the IDDE Program in BMP 3-1. The permittee will, upon identification, remove illicit discharges within 60 days. If 60 days is not feasible then the permittee will create a plan to eliminate the discharge no longer than 180 days from identification.

Information on potential illicit discharges from the following sources will be tracked:

- Citizen Reporting of potential illicit discharges (see BMP 3-3)
- Outfalls identified as potentially having illicit discharges during dry weather screening and sampling (see BMP 3-7)
- Sanitary Sewer Overflows (see BMP 3-8)
- Signs of illicit discharges identified by staff
- Signs of failing septic system will be reported to the Farmington Valley Health District

Information being tracked will include:

- Descriptions of the potential illicit discharge, location, date identified
- Actions taken to confirm whether an illicit discharge exists with dates
- Resolution of investigations
- Documentation the illicit discharge removal

Measurable Goals

1. Develop IDDE tracking system.

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 3-5	Develop IDDE tracking system Track IDDE	Develop IDDE tracking system Track IDDE	Track IDDE	Track IDDE	Track IDDE

Assessment

The program performance will be reviewed and documented annually by the First Selectman's Office.

BMP 3-6 Address IDDE in areas with pollutants of concern

Description

For MS4 discharges to impaired waters (with or without a TMDL), for which nitrogen, phosphorus, bacteria, or mercury are pollutants of concern, or waters which have pollution load reductions specified within a TMDL, the Town is required to meet criteria specified in the general permit related to: screening and monitoring; implementation of BMPs to meet Waste Load Allocation, Load Allocation or Water Quality Targets within TMDL; and to meet requirements for new discharges.

Measurable Goals

1. Review impaired waters guidance and TMDLs
2. Prioritize illicit discharges in IDDE program (see BMP 3-1)
3. Screen for pollutants of concern (POC) during dry weather (see BMP 3-7)
4. Implement non-structural BMPs for POC: public education, targeted outreach to potential contributor; employee training (see related BMPs)
5. If necessary, implement structural BMPs to achieve Waste Load Allocation, Load Allocation or Water Quality Targets with in TMDL
6. For new discharges, the developer/contractor needs to meet stormwater regulations (see BMP 5-1)

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 3-6	Review impaired water guidance and TMDLs	Review impaired water guidance and TMDLs	Evaluate/track progress of BMPs for impaired waters	Evaluate/track progress of BMPs for impaired waters	Evaluate/track progress of BMPs for impaired waters

Assessment

Meeting the goals and schedule set forth herein.

BMP 3-7 Outfall and interconnection dry weather screening and sampling

Description

The permittee will develop and execute a written screening procedure for outfalls and interconnections. The goal of the program is to identify illicit connections to the drainage system. Items to be developed and acknowledged in the procedure are presented below:

- Dry weather screening and sampling will be performed in dry conditions, when no more than 0.1 inches of rain has occurred in the previous 24-hour period
- Dry weather flow will be analyzed at a minimum for ammonia, chlorine, conductivity, salinity, bacteria, surfactants, temperature, and pollutants of concern
- If no flow is observed, but evidence of dry weather flow exists, the location will be revisited within one week

The permittee will develop screening procedures within the first two years of the permit and implement such procedures within the first two years and three months of the permit. Progress toward these goals will be documented in the annual report. All outfall screening will be completed by the end of the permit term.

Measurable Goals

1. Develop outfall and interconnection screening procedure that are incorporated in the IDDE Program
2. Implement outfall and interconnection screening procedure

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 3-7	Develop outfall screening procedure	Develop outfall screening procedure	Implement outfall screening procedure	Implement outfall screening procedure	Implement outfall screening procedure

Assessment

Meeting the goals and schedule set forth herein.

BMP 3-8 Sanitary Sewer Overflows (SSOs) Inventory

Description

The permittee has completed an audit of all known locations where SSOs have discharged in the past five years and will submit the information to DEEP with the SMP. The audit includes an inventory of all SSOs in the past five years with the following characteristics:

- Location of SSO
- SSO source location (surface water or directly into MS4 system)
- Date and time of SSO discharge
- Estimated volume of SSO discharge
- Description of SSO discharge
- Corrective measure planning
- Corrective measure implementation dates

Within five days of a new SSO occurrence, the permittee will notify CT DEEP via written notice and include information on the SSO characteristics listed above. Moreover, an inventory of all SSOs will continually be updated and maintained as part of the permit and each year will be documented within the annual report. In addition to completing an inventory the permittee will implement measures to eliminate the SSOs to the best of its ability.

Measurable Goals

1. Develop existing SSO inventory
2. Notify CT DEEP after each SSO

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 3-8	SSO inventory within 120 days. Report new SSOs	Report new SSOs	Report new SSOs	Report new SSOs	Report new SSOs

Assessment

No assessment is required for this BMP.

Minimum Control Measure 3: Summary Table

BMP/Goal	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 3-1 Develop written IDDE program					
Develop IDDE program with implementation schedule	X	X			
Implement IDDE program			X	X	X
Perform review of IDDE program			X	X	X
BMP 3-2 Develop list and maps of all MS4 stormwater outfalls in urbanized and priority areas (with conveyance and structure mapping)					
Develop mapping and database of priority area	X	X	X		
Develop mapping and database with additional required information				X	
Develop mapping and database for non-priority areas				X	X
Update mapping and database				X	X
Export database to excel summary	X	X	X	X	X
BMP 3-3 Develop citizen reporting program					
Develop citizen reporting program	X	X			
Investigate citizen reports	X	X	X	X	X
BMP 3-4 Establish legal authority to eliminate illicit discharges					
Establish legal authority	X	X			
Enforce legal authority			X	X	X
BMP 3-5 Develop record keeping system for IDDE tracking					
Develop IDDE tracking system	X	X			
Track IDDE	X	X	X	X	X
BMP 3-6 Address IDDE in areas with pollutants of concern					
Review impaired water guidance and TMDLs	X	X			
Evaluate/track progress of BMPs for impaired waters			X	X	X
BMP 3-7 Outfall and interconnection dry weather screening and sampling					
Develop outfall screening procedure	X	X			
Implement outfall screening procedure			X	X	X
BMP 3-8 Sanitary Sewer Overflows (SSOs) Inventory					
Submit SSO Summary	X	X	X	X	X
Report New SSOs	X	X	X	X	X

Stormwater Management Plan

Town of New Hartford, Connecticut

Minimum Control Measure 4: Construction Site Stormwater Runoff Control

The purpose of this measure is to effectively control stormwater runoff through the implementation and enforcement of Best Management Practices (BMPs) associated with land disturbance and development sites that are collectively equal to or greater than one acre of land.

The following BMPs will be used to control stormwater runoff at construction sites. In depth descriptions of how each BMP will be implemented are discussed within this section.

- BMP 4-1 Implement, upgrade (as necessary) and enforce land use regulations or other legal authority to meet requirements of MS4 general permit
- BMP 4-2 Develop/implement a plan for interdepartmental coordination in site plan review and approval
- BMP 4-3 Review site plans for stormwater quality concerns
- BMP 4-4 Conduct site inspections
- BMP 4-5 Implement a procedure to allow public comment on site development
- BMP 4-6 Implement a procedure to notify developers about DEEP construction stormwater permit

The overall goal of this program is to prevent stormwater runoff from construction sites from polluting nearby receiving waters.

BMP 4-1 Implement, upgrade (as necessary) and enforce land use regulations or other legal authority to meet requirements of MS4 general permit

Description

The permittee will establish legal authority to include the following items relating to construction site stormwater runoff:

1. Requirements for developers, construction site operators, and contractors to maintain consistency with current stormwater regulators and regulations (e.g., 2002 Guidelines for Soil Erosion and the Connecticut Stormwater Manual)
2. Authority to carry out inspection, surveillance, and monitoring procedures to maintain developer compliance with the permit and all established legal authority
3. Requirement for owner to comply with a long term maintenance plan
4. Requirement between permittee and other MS4s to coordinate agreements relating to the contribution of pollutants
5. Enforcement mechanisms

The permittee will establish legal authority within the first three fiscal years of the permit.

Measurable Goals

1. Establish legal authority

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 4-1	Establish legal authority	Establish legal authority	Establish and enforce legal authority	Enforce legal authority	Enforce legal authority

Assessment

Meeting the goal and schedule set forth herein.

BMP 4-2 Develop/implement plan for interdepartmental coordination in site plan review and approval

Description

The permittee will develop and implement an interdepartmental plan for jurisdiction and enforcement over construction permit requirements. This plan will be implemented on the effective date of the permit. Departments will meet at least annually to discuss the plan and make changes if needed.

Measurable Goals

1. Develop interdepartmental coordination plan
2. Implement interdepartmental coordination plan

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 4-2	Develop and Implement interdepartmental coordination plan	Implement interdepartmental coordination plan	Implement interdepartmental coordination plan	Implement interdepartmental coordination plan	Implement interdepartmental coordination plan

Assessment

The program performance will be reviewed and documented annually by the First Selectman's Office.

BMP 4-3 Review site plans for stormwater quality concerns

Description

The permittee will perform site plan reviews to minimize impacts to nearby water bodies by incorporating stormwater controls. Site plan reviews will be required for all development and redevelopment projects with more than one acres of soil disturbance.

Measurable Goals

1. Perform site plan reviews

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 4-3	Perform site plan reviews	Perform site plan reviews	Perform site plan reviews	Perform site plan reviews	Perform site plan reviews

Assessment

The program performance will be reviewed and documented annually by the First Selectman's Office.

BMP 4-4 Conduct site inspections

Description

The permittee will conduct site inspections to enforce the requirements determined during the site plan reviews. These inspections will enforce the required stormwater controls during construction.

Measurable Goals

1. Perform site inspections

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 4-4	Perform site inspections	Perform site inspections	Perform site inspections	Perform site inspections	Perform site inspections

Assessment

The program performance will be reviewed and documented annually by the First Selectman's Office.

BMP 4-5 Implement procedure to allow public comment on site development

Description

The permittee will develop and implement a procedure to receive and consider public comments for proposed and ongoing land developments.

Measurable Goals

1. Implement procedure to receive public comments on site development

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 4-5	Develop and Implement procedure to receive public comments on site development	Implement procedure to receive public comments on site development	Implement procedure to receive public comments on site development	Implement procedure to receive public comments on site development	Implement procedure to receive public comments on site development

Assessment

The procedure performance will be reviewed and documented annually by the First Selectman's Office.

BMP 4-6 Implement procedure to notify developers about DEEP construction stormwater permit

Description

The permittee will develop and implement a procedure to notify developers and contractors of specific requirements including a potential obligation to obtain authorization under the *CT DEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities*. This permit is also known as the construction general permit and requires the developer or contractor to submit a Storm Water Pollution Control Plan.

Measurable Goals

1. Implement a procedure to notify developers of DEEP construction stormwater permit

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 4-6	Implement a procedure to notify developers of DEEP construction stormwater permit	Continue procedure to notify developers of DEEP construction stormwater permit	Continue procedure to notify developers of DEEP construction stormwater permit	Continue procedure to notify developers of DEEP construction stormwater permit	Continue procedure to notify developers of DEEP construction stormwater permit

Assessment

The procedure performance will be reviewed and documented annually by the First Selectman's Office.

Minimum Control Measure 4: Summary Table

BMP/Goal	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 4-1 Implement, upgrade (as necessary) and enforce land use regulations or other legal authority to meet requirements of MS4 general permit					
Establish Legal Authority	X	X	X		
Enforce Legal Authority			X	X	X
BMP 4-2 Develop/implement plan for interdepartmental coordination in site plan review and approval					
Develop interdepartmental coordination plan	X				
Implement interdepartmental coordination plan	X	X	X	X	X
BMP 4-3 Review site plans for stormwater quality concerns					
Perform site plan reviews	X	X	X	X	X
BMP 4-4 Conduct site inspections					
Perform site inspections	X	X	X	X	X
BMP 4-5 Implement procedure to allow public comment on site development					
Develop procedure to receive public comments on site development	X				
Implement procedure to receive public comments on site development	X	X	X	X	x
BMP 4-6 Implement procedure to notify developers about DEEP construction stormwater permit					
Implement a procedure to notify developers of DEEP construction stormwater permit	X				
Continue procedure to notify developers of DEEP construction stormwater permit	X	X	X	X	X

Stormwater Management Plan

Town of New Hartford, Connecticut

Minimum Control Measure 5: Post-Construction Stormwater in New Development or Redevelopment

The purpose of this MCM is to outline a program to address stormwater runoff from new developments or redevelopment projects. Requirements of this MCM apply to sites with greater than one acre of soil disturbance except for DCIA calculations which apply to all projects.

The BMPs below will be used to control stormwater runoff at locations following construction, upon completion of construction activities. More detailed descriptions of how each BMP will be implemented are discussed within this section.

- BMP 5-1 Establish and/or Update Legal Authority and Guidelines Regarding Low Impact Development (LID) and Runoff Reduction in Site Development Planning
- BMP 5-2 Enforce LID/Runoff Reduction Requirements for Development and Redevelopment Projects
- BMP 5-3 Implement Long-term Maintenance Plan for Stormwater Basins and Treatment Structures
- BMP 5-4 DCIA Mapping
- BMP 5-5 Address Post-Construction Issues in Areas with Pollutants of Concern

The overall goal of this program is to prevent stormwater runoff from new development and redevelopment sites from polluting nearby receiving waters.

BMP 5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning

Description

The permittee will establish legal authority relative to developers and contractors using low impact development (LID) methods, runoff practices, and runoff reduction standards that meet or exceed the Connecticut Stormwater Quality Manual to the maximum extent practicable. Legal authority will include the following standards described in the MS4 General Permit:

- For redevelopment sites that are currently developed with DCIA ≥ 40%, the developer will need to retain stormwater runoff equal to half the water quality volume on-site; or
- For new development and redevelopment sites with <40% DCIA: the developer will need to retain stormwater runoff equal to the water quality volume on-site; or
- Adopt an alternate retention/treatment standard as outlined in the permit. If the runoff reduction cannot be met, the developer will need to submit a report outlining why the requirement cannot be met and may need to fund a project on another site that reduces site runoff.

The permittee will consider additional factors in establishing legal authority that protect watershed elements that manage impacts of stormwater on receiving waters. The permittee will identify, and where appropriate, reduce or eliminate existing local regulatory barriers that may limit implementation of LID and runoff reduction to the maximum extent possible. If the permittee cannot eliminate the barriers, the annual report will reflect, justify, and contain a revised schedule for implementation. Full implementation of this BMP is required by the end of Year 5.

Measurable Goals

1. Evaluate current regulations to identify status of legal authority and those regulations that require revisions
2. Develop programs, regulations, ordinances, etc. that provide legal authority to implement LID development regulations

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 5-1	Evaluate current regulations and develop regulations to establish legal authority	Develop & adopt regulations that establish legal authority	Develop & adopt regulations that establish legal authority	Develop & adopt regulations that establish legal authority	Develop & adopt regulations that establish legal authority

Assessment

Meeting the goal and schedule set forth herein.

BMP 5-2 Enforce low impact development (LID)/ runoff reduction requirements for development and redevelopment projects

Description

The permittee will implement the requirements in BMP 5-1 when legal authority is obtained by the end of Year 5. In Years 1-5, the permittee will enforce the current regulations.

The permittee will review private developer/contractor calculations under BMP 4-3, plans, and as-builts for compliance with current regulations on stormwater management; inspect stormwater structures and measures during construction (adjust based on current regulations); obtain as-built certification (adjust based on current regulations); track maintenance of private stormwater measures by requiring submission of maintenance records to the Town (adjust based on current regulations).

Measurable Goals

1. Enforce current regulations
2. Issue notice to inform developers of regulation changes
3. Enforce new regulations

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 5-2	Enforce current regulations	Enforce current regulations	Enforce current regulations	Enforce current regulations	Enforce current regulations

Assessment

Meeting the goal and schedule set forth herein.

BMP 5-3 Implement long-term maintenance plan for stormwater basins and treatment structures

Description

The permittee will develop a long-term maintenance plan for stormwater structures and measures that are owned by the town, or those for which the town maintains an easement or legal authority over, and that fall within the "priority" areas (Urbanized Area, DCIA > 11%, or discharge to impaired waters).

The maintenance plan ensures the long-term effectiveness of retention ponds, detention ponds, swirl concentrators, oil/grit separations, water quality wetlands, water quality swales, and other stormwater measures. At a minimum, the town will inspect all stormwater measures annually if they are found to have sediment or other pollutants (oils, leaves, litter, etc.) that take up more than 50% of design capacity, the stormwater measure will be cleaned to restore full solids capture design capacity.

Long-term maintenance of privately-owned stormwater structures or measures is enforced in BMP 5-2.

Measurable Goals

1. Develop long-term maintenance plan
2. Implement long-term maintenance plan

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 5-3	Develop long-term maintenance plan	Develop long-term maintenance plan	Develop long-term maintenance plan	Implement long-term maintenance plan	Implement long-term maintenance plan

Assessment

The program performance will be reviewed and documented annually by the First Selectman's Office.

BMP 5-4 DCIA Mapping

Description

The permittee will calculate the DCIA for each stormwater outfall catchment in the MS4 within three years of the effective date of the new permit. CT DEEP will provide DCIA mapping to use as the basis of this calculation. The Town will develop a methodology to create a baseline map that accurately identifies DCIA for each outfall catchment.

Key steps of the process are expected to include:

- Obtain DCIA mapping from CT DEEP and/or UCONN NEMO to use as a starting point. This is expected to be high-level mapping that can be refined by the Town.
- Update DCIA delineations to account for actual field conditions, including LID measures that disconnect impervious areas from the storm drainage system. Field inspections and file reviews will likely be performed.

The calculation, methodologies, and assumptions will be presented in the initial annual report with updates in each successive report.

Measurable Goals

1. Develop methodology for DCIA calculation
2. Develop map with DCIA calculation for each stormwater catchment
3. Calculate DCIA annually to account for all development, redevelopment, or retrofit projects that add or remove DCIA from the MS4

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 5-4	Develop methodology for DCIA calculation	Begin calculating DCIA of each catchment	Finalize DCIA calculation of each catchment	Update DCIA calculation	Update DCIA calculation

Assessment

Meeting the goals and schedule set forth herein.

BMP 5-5 Address post-construction issues in areas with pollutants of concern

Description

For development and re-development, consideration for pollutants of concern will be included in post-construction designs. During the review of developer/contractor plans, the town will identify if the project is within a stormwater catchment that discharges to impaired waters. If applicable, the town will require the developer/contractor to implement the necessary non-structural and structural BMPs to meet MS4 permit requirements for discharges to impaired waters.

Measurable Goals

1. Identify projects in catchments that discharge to impaired waters in conjunction with BMP 5-2

2. Develop procedures that require the contractor to implement non-structural and structural BMPs

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 5-5	Identify projects in catchments that discharge to impaired waters	Identify projects in catchments that discharge to impaired waters	Identify projects in catchments that discharge to impaired waters	Identify projects in catchments that discharge to impaired waters	Identify projects in catchments that discharge to impaired waters

Assessment

Meeting the goals and schedule set forth herein.

Minimum Control Measure 5: Summary Table

BMP/Goal	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning					
Evaluate current regulations	X				
Develop regulations that establish legal authority and adopt the regulations	X	X	X	X	X
BMP 5-2 Enforce low impact development (LID)/ runoff reduction requirements for development and redevelopment projects					
Enforce current regulations	X	X	X	X	X
BMP 5-3 Implement long-term maintenance plan for stormwater basins and treatment structures					
Develop long-term maintenance plan	X	X	X		
Implement long-term maintenance plan				X	X
BMP 5-4 DCIA Mapping					
Develop methodology for DCIA calculation	X				
Begin calculating DCIA of each catchment		X			
Finalize DCIA calculation of each catchment			X		
Update DCIA calculation				X	X
BMP 5-5 Address post-construction issues in areas with pollutants of concern					
Identify projects in catchments that discharge to impaired waters	X	X	X	X	X

Stormwater Management Plan

Town of New Hartford, Connecticut

Minimum Control Measure 6: Pollution Prevention/Good House Keeping

The purpose of this MCM is to promote efforts for an overall operations and maintenance program of the MS4.

The following Best Management Practices (BMPs) will be used to continue the pollution prevention/good housekeeping operation and maintenance measures of the previous MS4 permit. More detailed descriptions of how each BMP will be implemented are discussed later in this section.

- BMP 6-1 Develop/implement formal employee training program
- BMP 6-2 Implement MS4 property and operations maintenance
- BMP 6-3 Implement coordination with interconnected MS4s
- BMP 6-4 Develop/implement program to control other sources of pollutants to the MS4
- BMP 6-5 Evaluate additional measures for discharges to impaired waters
- BMP 6-6 Track projects that reduce and disconnect DCIA
- BMP 6-7 Develop/implement infrastructure repair/rehab program
- BMP 6-8 Develop/implement plan to identify/prioritize retrofit projects
- BMP 6-9 Develop/implement street sweeping program
- BMP 6-10 Develop/implement catch basin cleaning program
- BMP 6-11 Develop/implement snow management practices

The overall goal of this MCM is to prevent and reduce pollutant runoff and protect water quality characteristics of receiving waters by maintain good housekeeping practices.

BMP 6-1 Develop/implement formal employee training program

Description

The permittee will develop and implement an employee training program with the following goals:

- Educate staff of water quality issues
- Integrate aspects and goals of the SMP into trainings including standard operating procedures with the MS4 permit, construction site runoff, IDDE, spill response, impaired waters and staff responsibility
- Work in conjunction with BMP 3-1 (IDDE Program) that also requires Employee Training

Measurable Goals

1. Develop annual training program
2. Perform annual training

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 6-1	Develop employee training program	Develop employee training program	Perform employee training	Perform employee training	Perform employee training

Assessment

The program performance will be reviewed and documented annually by the First Selectman's Office.

BMP 6-2 Implement MS4 property and operations maintenance

Description

The permittee will develop or update maintenance procedures for town owned or operated properties and equipment in order to mitigate pollutant loads on the MS4 and its receiving waters. Maintenance procedures to be implemented include:

- Parks and Open Space Maintenance with fertilizer application procedures
- Pet Waste Management
- Waterfowl Management
- Building and Facility Material Storage and Spill Prevention
- Vehicles and Equipment Maintenance
- Leaf Management

The annual reports will include documentation of the procedures in effect for each of the topics above.

Measurable Goals

1. Develop and evaluate maintenance procedures
2. Implement maintenance procedures

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 6-2	Develop, evaluate, and implement maintenance procedures	Implement maintenance procedures	Implement maintenance procedures	Implement maintenance procedures	Implement maintenance procedures

Assessment

The procedures' effectiveness will be reviewed and documented annually by the First Selectman's Office.

BMP 6-3 Implement coordination with interconnected MS4s

Description

The permittee will coordinate with interconnected MS4s regarding pollutant loadings, contributing areas, stormwater controls, and operation and maintenance procedures.

Measurable Goals

1. Identify all interconnected MS4s
2. Contact each interconnected MS4 to coordinate SMP goals

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 6-3	Identify and contact each interconnected MS4	Contact each interconnected MS4	Contact each interconnected MS4	Contact each interconnected MS4	Contact each interconnected MS4

Assessment

Meeting the goals and schedule set forth herein.

BMP 6-4 Develop/implement program to control other sources of pollutants to the MS4

Description

The permittee will develop and implement a program to restrict the discharge of pollutants from other sources such as commercial, industrial, municipal, institutional, or other facilities. This program shall meet the requirements of Connecticut General Statues Sections 22a-430 and 22a-430b.

Measurable Goals

1. Develop and implement pollutant source control program

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 6-4	Develop and implement pollutant source control program	Implement pollutant source control program	Implement pollutant source control program	Implement pollutant source control program	Implement pollutant source control program

Assessment

The program performance will be reviewed and documented annually by the First Selectman's Office.

BMP 6-5 Evaluate additional measures for discharges to impaired waters

Description

For discharges to waters with Nitrogen or Phosphorus as a pollutant of concern, the town will implement a turf management policy including procedures for fertilizer application and the use of native plants. The town will document the actions taken to enforce the policy and will include an estimate of the fertilizer reduction.

For discharges to waters with Bacteria as a pollutant of concern, the town will develop, fund, implement, and prioritize a source management program to address bacteria concentrations in stormwater discharges from town controlled lands. These lands include dog parks, parks with open water, and sites with septic systems. The permittee will also implement a program to prohibit the feeding of waterfowl and to manage the populations of waterfowl. The permittee will document all actions taken to reduce the loadings of bacteria to impaired waters.

Measurable Goals

1. Develop turf management policy and source management program
2. Implement turf management policy for discharges to Nitrogen or Phosphorus impaired waters
3. Implement source management program and waterfowl program for discharges to Bacteria impaired waters
4. In each annual report, document the actions taken to implement these programs and include an estimate of fertilizer and turf reduction

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 6-5	Develop and implement procedures for reducing discharges to impaired waters	Implement procedures for reducing discharges to impaired waters	Implement procedures for reducing discharges to impaired waters	Implement procedures for reducing discharges to impaired waters	Implement procedures for reducing discharges to impaired waters

Assessment

Meeting the goals and schedule set forth herein.

BMP 6-6 Track projects that disconnect DCIA

Description

The permittee will develop a system to track changes in DCIA as a result of retrofitting or redevelopment including those changes which can be tracked as far as five years prior to the new permit (projects since July 1, 2012). DCIA percentages will be included in every annual report. See BMP 3-2 for baseline DCIA calculation and mapping.

Measurable Goals

1. Track DCIA percentage
2. Reduce DCIA by 2% by the end of the permit term (see BMP 6-8)

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 6-6	Track DCIA percentage	Track DCIA percentage	Track DCIA percentage	Track DCIA percentage	Track DCIA percentage

Assessment

Meeting the goal and schedule set forth herein.

BMP 6-7 Develop/implement infrastructure repair/rehab program

Description

The permittee will develop and implement a program for MS4 infrastructure to encompass repair and rehabilitation. Data collected from inspections and mapping will be used to update planned repairs throughout the permit.

Measurable Goals

1. Evaluate MS4 infrastructure and develop a repair/rehab program
2. Repair and rehabilitate MS4 infrastructure

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 6-7	Evaluate infrastructure and develop rehab program Repair and rehabilitate MS4 infrastructure	Evaluate infrastructure and develop rehab program Repair and rehabilitate MS4 infrastructure	Evaluate infrastructure and develop rehab program Repair and rehabilitate MS4 infrastructure	Repair and rehabilitate MS4 infrastructure	Repair and rehabilitate MS4 infrastructure

Assessment

The program performance will be reviewed and documented annually by the First Selectman's Office.

BMP 6-8 Develop/implement plan to identify/prioritize retrofit projects

Description

The permittee will implement a plan to identify and prioritize retrofit and redevelopment projects. These projects will include any retrofit and redevelopment where the Water Quality Volume will be retained on site with the use of LID. Retrofit projects are defined as modifications for the purpose of retaining the Water Quality Volume on site. Redevelopment projects are defined as modifications to an existing developed site to expand or change its current function. On redevelopment projects, retention of the Water Quality Volume will also be performed, but this is not the primary purpose. The retrofit plan will identify projects for future DCIA reduction with prioritization by priority area.

A 1% annual removal of DCIA will commence following the completion of the retrofit plan. Projects implemented up to five years prior to the new permit may be used toward the 1% removal. A 1% annual removal will also be required for years following the fifth permit year. See BMP 3-2 for baseline DCIA calculation and mapping.

Measurable Goals

1. Develop and implement a retrofit plan to include tracking of DCIA (see BMP 6-6)
2. Removal of 1% of DCIA annually (total of 2% in Years 4 and 5)
3. Include in the annual report the identification and prioritization process for selecting retrofit projects, the rationale for selection and the total planned DCIA to be disconnected.

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 6-8	Develop retrofit plan*	Develop retrofit plan*	Develop retrofit plan*	Remove 1% of DCIA	Remove 1% of DCIA

*Once the retrofit plan is complete, the permittee will begin 1% annual DCIA disconnection even if the plan is completed earlier than Year 3.

Assessment

Meeting the goal and schedule set forth herein.

BMP 6-9 Develop/implement street sweeping program

Description

The permittee will develop or update procedures for street sweeping on Town owned or maintained streets and parking lots. Street sweeping of all roads in the "priority" areas (Urbanized Areas, DCIA > 11%, or discharge to impaired waters) will be completed by the permittee once a year.

The Town will identify street sweeping needs for streets and parking lots outside the priority areas, the Town will either sweep those areas annually or implement an inspection, documentation, and targeted sweeping and/or cleaning plan.

Procedures will be implemented to increase cleaning in other targeted areas based on construction activities or areas with potential pollutant sources as determined from inspections, catch basin cleaning, and/or snow and ice control practices.

All street sweepings will be properly disposed of by the permittee.

Each year's annual report will include a summary of inspection results, curb miles swept, dates of cleaning, volume or mass of material collected and methods of reuse or disposal.

Measurable Goals

1. Annual Street Sweeping
2. Document and track street sweeping as detailed in the BMP description

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 6-9	Annual Street Sweeping	Annual Street Sweeping	Annual Street Sweeping	Annual Street Sweeping	Annual Street Sweeping

Assessment

The program performance will be reviewed and documented annually by the First Selectman's Office.

BMP 6-10 Develop/implement catch basin cleaning program

Description

The permittee will develop, update, and implement procedures for catch basin cleaning and inspection for all town-owned catch basins.

Specifically catch basins in the "priority" areas (Urbanized Areas, DCIA > 11%, or discharge to impaired waters) will be inspected within three years of the effective permit date. Additionally, all other catch basins must be inspected by the end of the five year term. Inspection and maintenance will also be prioritized for catch basins near impaired waters and near construction activities.

The permittee will create a plan for optimizing catch basin cleaning to ensure no catch basin exceeds sediment loading of 50% full. The Town will work with a contracted catch basin cleaning company who has served the Town in past. More specifically the Town will require the company to continually document cleaning and catch basin condition in order to develop a plan which addresses catch basins that accumulate and exceed the 50% sediment threshold faster than others. This information will also be documented in the first annual report along with total number of catch basins, number inspected, number cleaned and total mass of material removed. If a catch basin is more than 50% full in two successful inspections or cleanings, the permittee will investigate source of debris and implement abatement to the maximum extent practicable.

Measurable Goals

1. Implement catch basin cleaning and inspection procedures including metrics and details of the optimization plan

2. Annual report catch basin tracking as detailed in the BMP description

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 6-10	Develop and Implement catch basin cleaning and inspection procedures	Implement catch basin cleaning and inspection procedures	Implement catch basin cleaning and inspection procedures	Implement catch basin cleaning and inspection procedures	Implement catch basin cleaning and inspection procedures

Assessment

The program performance will be reviewed and documented annually by the First Selectman's Office.

BMP 6-11 Develop/implement snow management practices

Description

The permittee will develop, update, and implement measures for the control of snow related pollutant loadings to the MS4. The following measures will be used to manage snow related practices by the permittee:

- Deicing Material Measures: The permittee will develop standard operating procedures for all aspects of salt and sand use to minimize impacts to receiving waters (while maintaining public safety), explore alternative deicing materials, and implement secondary containment for all exterior liquid storage.
- Snow and Ice Control Practice: The permittee will implement standard operating procedures to minimize discharge of deicing materials by establishing optimization goals for the application of materials. The permittee will maintain records on deicing material usage and provide proper training for application.

All practices will be in accordance with CT DEEP's BMPs for Disposal of Snow Accumulations from Roadways and Parking Lots. In addition, the permittee will include in its annual report the types of staff training conducted for application methods and equipment, type(s) of deicing material used, lane-miles treated, total amount of each deicing material used, types of deicing equipment used, changes in deicing practices and snow disposal methods.

Measurable Goals

1. Develop / update snow management measures and practices
2. Implement snow management measures and practices
3. Annual tracking of snow management practices as detailed in the BMP description

Schedule

BMP	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 6-11	Develop, update, and implement snow management measures and practices	Implement snow management measures and practices	Implement snow management measures and practices	Implement snow management measures and practices	Implement snow management measures and practices

Assessment

The procedures' effectiveness will be reviewed and documented annually by the First Selectman's Office.

Minimum Control Measure 6: Summary Table

BMP/Goal	Year 1	Year 2	Year 3	Year 4	Year 5
BMP 6-1 Develop/implement formal employee training program					
Develop employee training program	X	X			
Perform employee training			X	X	X
BMP 6-2 Implement MS4 property and operations maintenance					
Develop and evaluate maintenance procedures	X				
Implement maintenance procedures	X	X	X	X	X
BMP 6-3 Implement coordination with interconnected MS4s					
Identify interconnected MS4s	X				
Contact each interconnected MS4	X	X	X	X	X
BMP 6-4 Develop/implement program to control other sources of pollutants to the MS4					
Develop pollutant source control program	X				
Implement pollutant source control program	X	X	X	X	X
BMP 6-5 Evaluate additional measures for discharges to impaired waters					
Develop turf management policy and source management program	X				
Implement turf management policy for discharges of Nitrogen or Phosphorus to impaired waters	X	X	X	X	X
Implement source management program and waterfowl program for discharges to Bacteria impaired waters	X	X	X	X	X
BMP 6-6 Track projects that disconnect DCIA					
Track DCIA percentage	X	X	X	X	X
BMP 6-7 Develop/implement infrastructure repair/rehab program					
Evaluate MS4 infrastructure and develop program	X	X	X		
Repair and rehabilitate MS4 infrastructure	X	X	X	X	X
BMP 6-8 Develop/implement plan to identify/prioritize retrofit projects					
Develop retrofit plan	X	X	X		
Remove 1% of DCIA				X	X
BMP 6-9 Develop/implement street sweeping program					
Annual Street Sweeping	X	X	X	X	X
BMP 6-10 Develop/implement catch basin cleaning program					
Develop catch basin cleaning and inspection procedures	X				
Implement catch basin cleaning and inspection procedures	X	X	X	X	X
BMP 6-11 Develop/implement snow management practices					
Develop / update snow management measures and practices	X				
Implement snow management measures and practices	X	X	X	X	X

Stormwater Management Plan

Town of New Hartford, Connecticut

Wet Weather Monitoring

The Town of New Hartford does not have any outfalls that discharge to impaired waters. Therefore, the BMPs of this section do not apply to the Town.

BMP S-1 Outfall screening – *Not Applicable*

BMP S-2 Inventory and mapping of discharges to impaired waters – *Not Applicable*

BMP S-3 Follow-up investigations of drainage areas – *Not Applicable*

BMP S-4 Annual monitoring of priority outfalls – *Not Applicable*

Reporting

The First Selectman's office will compile all data and prepare annual reports as required by the permit. Each year, by January 31st, the draft annual report will be made available for public review and comment. By April 1st, the permittee will electronically submit an Annual Report to CT DEEP for the previous calendar year. Each annual report will include the municipal review fee and summary of the progress made on the BMPs for each of the six MCM's; including monitoring data, IDDE data, and a written report that includes the following components:

- A description of each BMP.
- All specific reporting requirements as detailed with the MCMs and BMPs of this SMP.
- A schedule of BMPs implementation including a discussion on the current status of implementation for each BMP to be fully or partially completed in that year.
- A discussion on the reasons and a modified BMP schedule for all BMPs which were not completed as scheduled.
- The overall status of each MCM.
- Changes to the responsible persons for any BMP.
- All new or modified BMPs including all details similar to those presented in this SMP.
- A discussion on the status of the permittee's IDDE program including field monitoring results, number and type of illicit discharges detected, and number of illicit discharges eliminated.
- A discussion on the status of the permittee's stormwater monitoring program including the overall status of the monitoring program, a summary of the findings, any significant observations regarding the results, and any modifications to the Plan as a result of the monitoring results.
- Since the Town doesn't have outfalls that discharge to impaired waters that will be stated in each annual report. If new outfalls are identified that discharge to impaired waters, the Town will include a discussion on the control of discharges to impaired waters and the additional measures that have been added to the Stormwater Management Plan as a result. The Town will report annually on the progress made with education and outreach within the watersheds tributary to impaired waters.
- A summary of BMPs planned for the coming year.

Recordkeeping

All documents relating to this permit, including this SMP, will be kept for a minimum of five years following the expiration of the permit. This requirement may be extended by the Commissioner.

Stormwater Management Plan Certification

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

[signature]	FIRST SELECTMAN
Chief Elected Official/Principal Executive Officer Signature	Title
DANIEL V. JERRAM	8/17/17
Chief Elected Official/Principal Executive Officer Printed Name	Date
[signature]	Senior Project Manager, CDM Smith
Preparer (if different than above) Signature	Title
Cynthia Baumann, P.E.	8/17/17
Preparer (if different than above) Printed Name	Date

CDM Smith