

MS4 General Permit
Town of New Hartford 2017 Annual Report
New MS4 Permittee
Permit Number GSM000135
July 1, 2017 – December 31, 2017

This report documents New Hartford’s efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from July 1, 2017 to December 31, 2017.

Part I: Summary of Minimum Control Measure Activities

1. Public Education and Outreach (Section 6 (a)(1) / page 19)

1.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
1-1 Implement public education and outreach	In progress	<ul style="list-style-type: none"> Develop and implement a public education program 	<ul style="list-style-type: none"> Develop a public education program and all materials to be distributed under the program Implement the program and distribute public education materials annually Summarize the types, sources, number of, and methods by which materials are disseminated 	First Selectman’s Office	July 1, 2022	Anticipate completing the development of program by July 1, 2019	Measurable goals listed apply to full extent of the 5-year schedule.
1-2 Address education/outreach for pollutants of concern	In progress	<ul style="list-style-type: none"> Identify pollutants of concern and incorporating into materials under BMP 1-1 	<ul style="list-style-type: none"> Identify pollutants of concern and incorporate into materials under BMP 1-1 	First Selectman’s Office	Jul 1, 2019		

1.2 Describe any Public Education and Outreach activities planned for the next year, if applicable.

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 Minimum Control Measure (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:

1. Pet waste management
2. Application of fertilizers, herbicides, and pesticides
3. Impervious cover
4. Impacts of illicit discharge improper waste disposal

Materials developed under BMP 1-1 will be targeted at the identified pollutants of concern identified under BMP 1-2, for New Hartford the pollutants of concern are bacteria and mercury.

1.3 Details of activities implemented to educate the community on stormwater

Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
Identified Pollutants of Concern			Bacteria and mercury	First Selectman Office

2. Public Involvement/Participation (Section 6(a)(2) / page 21)

2.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
2-1 Comply with public notice requirements for the Stormwater Management Plan and Annual Reports	In progress	<ul style="list-style-type: none"> Publish SMP and annual report Issue public notice for feedback by January 31st (Ongoing) 	<ul style="list-style-type: none"> Make SMP and annual reports publicly available Distribute notice for public review and soliciting comments by January 31st 	First Selectman's Office	July 1, 2022	2017 SMP completed April 2017	Measurable goals listed apply to full extent of the 5-year schedule.

2.2 Describe any Public Involvement/Participation activities planned for the next year, if applicable.

Post the SMP and annual reports in the First Selectman's Office in the Town Hall and to the Town website and 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.

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan announced to public	Yes	Draft February 2018 Final July 2017	http://www.town.new-hartford.ct.us/highway-department

3. Illicit Discharge Detection and Elimination (Section 6(a)(3) and Appendix B / page 22)

3.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3-1 Develop written IDDE Program	In progress	<ul style="list-style-type: none"> Develop IDDE Program with implementation schedule 	<ul style="list-style-type: none"> Complete written IDDE Program with implementation schedule Follow detailed schedules and requirements in IDDE Program and related BMPs Annual Review of IDDE Program 	First Selectman's Office	Jul 1, 2019		
3-2 Develop list and maps of all MS4 stormwater outfalls in urbanized and priority areas (with conveyance and structure mapping)	In progress	<ul style="list-style-type: none"> Develop mapping and database for priority areas Excel Summary 	<ul style="list-style-type: none"> Develop stormwater drainage map and database Update mapping at a minimum annually Export the database into excel format for annual reports 	First Selectman's Office	Jul 1, 2020		Measurable goals listed apply to full extent of the 5-year schedule.
3-3 Develop citizen reporting program	In progress	<ul style="list-style-type: none"> Develop citizen reporting program, investigate citizen reports 	<ul style="list-style-type: none"> Develop citizen reporting program 	First Selectman's Office	Jul 1, 2019		
3-4 Establish legal authority to eliminate illicit discharges	In progress	<ul style="list-style-type: none"> Establish legal authority 	<ul style="list-style-type: none"> Establish legal authority 	First Selectman's Office	Jul 1, 2019		
3-5 Develop record keeping system for IDDE tracking	In progress	<ul style="list-style-type: none"> Develop IDDE tracking system (In progress) Track IDDE 	<ul style="list-style-type: none"> Develop IDDE tracking system 	First Selectman's Office	Jul 1, 2019		
3-6 Address IDDE in areas with pollutants of concern	In progress	<ul style="list-style-type: none"> Review impaired water guidance and TMDLs 	<ul style="list-style-type: none"> Review impaired water guidance and TMDLs Prioritize illicit discharges in IDDE Program per BMP 3-1 	First Selectman's Office	July 1, 2020		Measurable goals listed apply to full extent of the

			<ul style="list-style-type: none"> • Screen for pollutants of concern (POC) during dry weather per BMP 3-7 • Implement non-structural BMPs for POC: public education, targeted outreach to potential contributor; employee training per related BMPs • If necessary, implement structural BMPs to achieve Waste Load Allocation, Load Allocation or Water Quality Targets within TMDLs • For new discharges, the developer/contractor needs to meet stormwater regulations per BMP 5-1 				5-year schedule.
3-7 Outfall and interconnection dry weather screening and sampling	In progress	<ul style="list-style-type: none"> • Develop outfall screening procedure (no interconnections) 	<ul style="list-style-type: none"> • Develop outfall screening procedures that are incorporated in the IDDE Program • Implement outfall screening procedure 	First Selectman's Office	June 30, 2019		Measurable goals listed apply to full extent of the 5-year schedule.
3-8 Sanitary Sewer Overflow (SSOs) Inventory	In progress	<ul style="list-style-type: none"> • SSO inventory within 120 days. • Report new SSOs (Ongoing) 	<ul style="list-style-type: none"> • Develop existing SSO inventory • Notify CT DEEP after each SSO 	First Selectman's Office	June 30, 2018		Measurable goals listed apply to full extent of the 5-year schedule.

3.2 Describe any IDDE activities planned for the next year, if applicable.

3-1 Develop a comprehensive written IDDE program that outlines how to identify, mitigate, eliminate and control illicit discharges in a systematic way. The written program will be posted to the Town webpage.

3-5 Maintain master IDDE tracking spreadsheet and ensure all employees involved in IDDE program understand the logging process

3-7 Develop outfall screening procedure.

3-8 Develop SSO inventory

3.3 List of citizen reports of suspected illicit discharges received during this reporting period.

Date of Report	Location / suspected source	Response taken

3.4 Provide a record of illicit discharges occurring during the reporting period and SSOs occurring July 2012 through end of reporting period using the following table.

Location (Lat long/ street crossing /address and receiving water)	Date and duration of occurrence	Discharge to MS4 or surface water	Estimated volume discharged	Known or suspected cause / Responsible party	Corrective measures planned and completed (include dates)	Sampling data (if applicable)
526 Main Street (Route 44 at Bridge Street)	In 2014 For 24 Hours			Collapsed sewer pipe	Reported to DEEP and Cleaned and diverted the pipe	n/a

3.5 Briefly describe the method used to track illicit discharge reports, responses to those reports, and who was responsible for tracking this information.

The Town 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 Town will, upon identification, remove illicit discharges within 60 days. If 60 days is not feasible then the Town will create a plan to eliminate the discharge no longer than 180 days from identification. The Town will develop a citizen reporting program to receive reports from citizens of possible illicit discharges. The Town 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. The program performance will be reviewed and documented annually by the First Selectman’s Office.

3.6 Provide a summary of actions taken to address septic failures using the table below.

Location and nature of structure with failing septic systems	Actions taken to respond to and address the failures	Impacted waterbody or watershed, if known

3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	100
Estimated or actual number of interconnections	0
Outfall mapping complete	(0%)
Interconnection mapping complete	100%
System-wide mapping complete (detailed MS4 infrastructure)	(0%)
Outfall assessment and priority ranking	(0%)
Dry weather screening of all High and Low priority outfalls complete	0
Catchment investigations complete	0
Estimated percentage of MS4 catchment area investigated	0%

3.8 Briefly describe the IDDE training for employees involved in carrying out IDDE tasks including what type of training is provided and how often is it given (minimum once per year).

None

4. Construction Site Runoff Control (Section 6(a)(4) / page 25)

4.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit	In progress	<ul style="list-style-type: none"> Establish legal authority 	<ul style="list-style-type: none"> Establish legal authority 	Planning and Zoning	Jul 1, 2020		
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	In progress	<ul style="list-style-type: none"> Develop and implement interdepartmental coordination plan 	<ul style="list-style-type: none"> Develop interdepartmental coordination plan Implement interdepartmental coordination plan 	Planning and Zoning	Jul 1, 2022	Anticipate development by July 1, 2018	Measurable goals listed apply to full extent of the 5-year schedule.
4-3 Review site plans for stormwater quality concerns	In progress	<ul style="list-style-type: none"> Perform site plan reviews 	Perform site plan reviews	Planning and Zoning	Jul 1, 2022	Anticipate development by July 1, 2018	The program performance will be reviewed and documented annually.
4-4 Conduct site inspections	In progress	<ul style="list-style-type: none"> Perform site inspections 	<ul style="list-style-type: none"> Perform site inspections 	Planning and Zoning	Jul 1, 2022	Completed December 31, 2017	The program performance will be reviewed and documented annually.
4-5 Implement procedure to allow public comment on site development	In progress	<ul style="list-style-type: none"> Develop and implement procedure to receive public comments on site development 	<ul style="list-style-type: none"> Implement procedure to receive public comments on site development 	Planning and Zoning	Jul 1, 2022	Anticipate development by July 1, 2018	The program performance will be reviewed and documented annually.
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	In progress	<ul style="list-style-type: none"> Implement a procedure to notify developers of DEEP construction stormwater permit 	<ul style="list-style-type: none"> Implement a procedure to notify developers of DEEP construction stormwater permit 	Planning and Zoning	Jul 1, 2022	Anticipate development by July 1, 2018	The program performance will be reviewed and documented annually.

4.2 Describe any Construction Site Runoff Control activities planned for the next year, if applicable.

The Town will continue to enforce 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 Town and other MS4s to coordinate agreements relating to the contribution of pollutants
5. Enforcement mechanisms

The Town will continue the interdepartmental plan for jurisdiction and enforcement over construction permit requirements. The Town will perform site plan reviews to minimize impacts to nearby water bodies by incorporating stormwater controls and will conduct site inspections to enforce the requirements determined during the site plan reviews. The Town will also develop and implement a procedure to receive and consider public comments for proposed and ongoing land developments and 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.

5. Post-construction Stormwater Management (Section 6(a)(5) / page 27)

5.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning	In progress	<ul style="list-style-type: none"> Evaluate current regulations and develop regulations to establish legal authority 	<ul style="list-style-type: none"> Evaluate current regulations to identify status of legal authority and those regulations that require revisions Develop programs, regulations, ordinances, etc. that provide legal authority to implement LID development regulations 	Planning and Zoning	Jul 1, 2022		Measurable goals listed apply to full extent of the 5-year schedule.
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	In progress	<ul style="list-style-type: none"> Enforce current regulations 	<ul style="list-style-type: none"> Enforce current regulations Issue notice to inform developers of regulation changes Enforce new regulations 	Planning and Zoning	Jul 1, 2022		Measurable goals listed apply to full extent of the 5-year schedule.
5-3 Implement long-term maintenance plan for stormwater basins and treatment structures	In progress	<ul style="list-style-type: none"> Develop long-term maintenance plan Identify detention and retention ponds within priority areas 	<ul style="list-style-type: none"> Develop long-term maintenance plan Implement long-term maintenance plan 	Planning and Zoning	Jul 1, 2020		<p>Measurable goals listed apply to full extent of the 5-year schedule.</p> <p>The program performance will be reviewed and documented annually.</p>
5-4 DCIA mapping	In progress	<ul style="list-style-type: none"> Develop methodology for DCIA calculation 	<ul style="list-style-type: none"> Develop methodology for DCIA calculation Develop map with DCIA calculation for each stormwater catchment Calculate DCIA annually to account for all development, redevelopment, or retrofit 	Planning and Zoning	Jul 1, 2020		Measurable goals listed apply to full extent of the 5-year schedule.

			projects that add or remove DCIA from MS4				
5-5 Address post-construction issues in areas with pollutants of concern	In progress	<ul style="list-style-type: none"> Identify projects in catchments that discharge to impaired waters 	<ul style="list-style-type: none"> Identify projects in catchments that discharge to impaired waters in conjunction with BMP 5-2 Develop procedures that require the contractor to implement non-structural and structural BMPs 	Planning and Zoning	July 1, 2022		

5.2 Describe any Post-Construction Stormwater Management activities planned for the next year, if applicable.

The Town will begin the process to 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.

The Town will begin to 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

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	0 acres
DCIA disconnected (redevelopment plus retrofits)	0 acres this year / acres total
Retrofits completed	0
DCIA disconnected	0% this year / 0% total since 2012
Estimated cost of retrofits	\$0
Detention or retention ponds identified	0 this year /0 total

5.4 Briefly describe the method to be used to determine baseline DCIA.

The Town 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:

1. 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.
2. 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.
3. Within the first three years of the new permit, 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".
4. Within the first five years of the new permit, further develop the drainage system mapping to include mapping requirements included in the MS4 permit, Appendix B.
5. Within the first five years of the new permit, complete drainage system mapping town-wide.

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

6. Pollution Prevention/Good Housekeeping (Section 6(a)(6) / page 31)

6.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-1 Develop/implement formal employee training program	In progress	<ul style="list-style-type: none"> Develop employee training program 	<ul style="list-style-type: none"> Develop annual training program Perform annual training 	First Selectman's Office	Jul 1, 2020		<p>Measurable goals listed apply to full extent of the 5-year schedule.</p> <p>The program performance will be reviewed and documented annually.</p>
6-2 Implement MS4 property and operations maintenance	In progress	<ul style="list-style-type: none"> Develop, evaluate, and implement maintenance procedures 	<ul style="list-style-type: none"> Develop and evaluate maintenance procedures Implement maintenance procedures 	Highway Department	Jul 1, 2022		<p>Measurable goals listed apply to full extent of the 5-year schedule.</p> <p>The program performance will be reviewed and documented annually.</p>
6-3 Implement coordination with interconnected MS4s	In progress	<ul style="list-style-type: none"> Identify and contact each interconnected MS4 	<ul style="list-style-type: none"> Identify all interconnected MS4s Contact each interconnected MS4 to coordinate the SMP goals 	First Selectman's Office	July 1, 2018		n/a
6-4 Develop/implement program to control other sources of pollutants to the MS4	In progress	<ul style="list-style-type: none"> Develop and implement pollutant source control program 	<ul style="list-style-type: none"> Develop and implement pollutant source control program 	First Selectman's Office	July 1, 2022		The program performance will be reviewed and documented annually.
6-5 Evaluate additional measures for discharges to impaired waters	In progress	<ul style="list-style-type: none"> Develop and implement procedures for reducing discharges to impaired waters 	<ul style="list-style-type: none"> Develop turf management policy and source management program Implement turf management policy for discharges to Nitrogen or Phosphorus impaired waters 	First Selectman's Office	July 1, 2022		Measurable goals listed apply to full extent of the 5-year schedule.

			<ul style="list-style-type: none"> Implement source management program and waterfowl program for discharges to bacteria impaired waters In each annual report, document the actions taken to implement these programs and include an estimate of fertilizer and turf reduction 				
6-6 Track projects that disconnect DCIA	In progress	<ul style="list-style-type: none"> Track DCIA percentage 	<ul style="list-style-type: none"> Track DCIA percentage Reduce DCIA percentage by 2% by the end of the permit term per BMP 6-8 	First Selectman's Office	Jul 1, 2022		Measurable goals listed apply to full extent of the 5-year schedule.
6-7 Implement infrastructure repair/rehab program	In progress	<ul style="list-style-type: none"> Evaluate infrastructure and develop rehab program Repair and rehabilitate MS4 infrastructure 	<ul style="list-style-type: none"> Evaluate MS4 infrastructure and develop a repair/rehab program Repair and rehabilitate MS4 infrastructure 	Highway Department	Jul 1, 2020		<p>Measurable goals listed apply to full extent of the 5-year schedule.</p> <p>The program performance will be reviewed and documented annually.</p>
6-8 Develop/implement plan to identify/prioritize retrofit projects	In progress	<ul style="list-style-type: none"> Develop retrofit plan 	<ul style="list-style-type: none"> Develop and implement a retrofit plan to include tracking of DCIA per BMP 6-6 Removal of 1% of DCIA annually (total of 2% in Years 4 and 5) 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 	Highway Department	Jul 1, 2020		Once the retrofit plan is complete, the permittee will begin 1% annual DCIA disconnection even if the plan is completed earlier than Year 3.
6-9 Develop/implement street sweeping program	Completed	<ul style="list-style-type: none"> Annual street sweeping 	<ul style="list-style-type: none"> Annual street sweeping Document and track street sweeping 	Highway Department	Jul 1, 2018	Completed	The program performance will be reviewed and documented annually.

6-10 Develop/implement catch basin cleaning program	Completed	<ul style="list-style-type: none"> Develop and implement catch basin cleaning and inspection procedures 	<ul style="list-style-type: none"> Implement catch basin cleaning and inspection procedures including metrics and details of the optimization plan Annual report catch basin tracking as detailed in the BMP description 	Highway Department	Jul 1, 2018	Completed	The program performance will be reviewed and documented annually.
6-11 Develop/implement snow management practices	In progress	<ul style="list-style-type: none"> Develop, update, and implement snow management measures and practices 	<ul style="list-style-type: none"> Develop/update snow management measures and practices Implement snow management measures and practices Annual tracking of snow management practices 	Highway Department	Jul 1, 2018	Anticipated to complete by July 1, 2018	The procedure's effectiveness will be reviewed and documented annually.

6.2 Describe any Pollution Prevention/Good Housekeeping activities planned for the next year, if applicable.

The Town 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:

1. Parks and Open Space Maintenance with fertilizer application procedures
2. Pet Waste Management
3. Building and Facility Material Storage and Spill Prevention
4. Vehicles and Equipment Maintenance
5. Leaf Management

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

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

The Town will develop and implement a program to restrict the discharge of pollutants from other sources such as commercial, industrial, municipal, institutional, or other facilities.

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.

The Town 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 and will develop and implement a program for MS4 infrastructure to encompass repair and rehabilitation.

The Town will develop or update procedures for street sweeping, catch basin clearing and snow management, on Town owned or maintained streets and parking lots.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	No
Street sweeping	
Curb miles swept	72 miles
Volume (or mass) of material collected	800 tons
Catch basin cleaning	
Total catch basins in priority areas	unknown
Total catch basins in MS4	unknown
Catch basins inspected	0
Catch basins cleaned	8
Volume (or mass) of material removed from all catch basins	8 tons
Volume removed from catch basins to impaired waters (if known)	unknown
Snow management	
Type(s) of deicing material used	n/a
Total amount of each deicing material applied	n/a
Type(s) of deicing equipment used	n/a
Lane-miles treated	n/a
Snow disposal location	n/a
Staff training provided on application methods & equipment	n/a
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	n/a
Reduction in turf area (since start of permit)	n/a
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	n/a

6.4 Catch basin cleaning program

Briefly describe the method used to optimize your catch basin inspection and cleaning schedule.

The Town 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 Town 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.

6.5 Retrofit program

Briefly describe the Retrofit Program identification and prioritization process, the projects selected for implementation, the rationale for the selection of those projects and the total DCIA to be disconnected upon completion of each project.

The Town 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.

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years.

The retrofit program is expected to be implemented during years 3-5 (2019-2022).

Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1% DCIA annually over the next 5 years.

At the end of year 3, this will be assessed and reported.

Part II: Impaired waters investigation and monitoring

1. Impaired waters investigation and monitoring program

1.1 Indicate which stormwater pollutant(s) of concern occur(s) in your municipality or institution. This data is available on the MS4 map viewer: <http://s.uconn.edu/ctms4map>.

Nitrogen/ Phosphorus Bacteria Mercury Other Pollutant of Concern

1.2 Describe program status

Discuss 1) the status of monitoring work completed, 2) a summary of the results and any notable findings, and 3) any changes to the Stormwater Management Plan based on monitoring results.

Will be assessed and implemented in the 2019 Annual report.

2. Screening data for outfalls to impaired waterbodies (Section 6(i)(1) / page 41)

2.1 Screening data collected under 2017 permit

Complete the table below for any outfalls screened during the reporting period. Each Annual Report will add on to the previous year’s screening data showing a cumulative list of outfall screening data.

Outfall ID	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required?

3. Follow-up investigations (Section 6(i)(1)(D) / page 43)

Provide the following information for outfalls exceeding the pollutant threshold.

Outfall	Status of drainage area investigation	Control measure implementation to address impairment

4. Prioritized outfall monitoring (Section 6(i)(1)(D) / page 43)

Once outfall screening has been completed for at least 50% of outfalls to impaired waters, identify 6 of the highest contributors of any pollutants of concern. Begin monitoring these outfalls on an annual basis by July 1, 2021.

Outfall	Sample Date	Parameter(s)	Results	Name of Laboratory (if used)

Part III: Additional IDDE Program Data

1. Assessment and Priority Ranking of Catchments data (Appendix B (A)(7)(c) / page 5)

Provide a list of all catchments with ranking results (DEEP basins may be used instead of manual catchment delineations).

1. Catchment ID (DEEP Basin ID)	2. Category	3. Rank

2. Outfall and Interconnection Screening and Sampling data (Appendix B (A)(7)(d) / page 7)

2.1 Dry weather screening and sampling data from outfalls and interconnections

Provide sample data for outfalls where flow is observed. Only include Pollutant of concern data for outfalls that discharge into stormwater impaired waterbodies.

Outfall / Interconnection ID	Screening / sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or enterococcus	Surfactants	Water Temp	Pollutant of concern	If required, follow-up actions taken

2.2 Wet weather sample and inspection data

Provide sample data for outfalls and key junction manholes of any catchment area with at least one System Vulnerability Factor.

Outfall / Interconnection ID	Sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or Enterococcus	Surfactants	Water Temp	Pollutant of concern

3. Catchment Investigation data (Appendix B (A)(7)(e) / page 9)

3.1 System Vulnerability Factor Summary

For those catchments being investigated for illicit discharges (i.e. categorized as high priority, low priority, or problem) document the presence or absence of System Vulnerability Factors (SVF). If present, report which SVF's were identified. An example is provided below.

Outfall ID	Receiving Water	System Vulnerability Factors

Where SVFs are:

1. History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.
2. Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs.
3. Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints.
4. Common or twin-invert manholes serving storm and sanitary sewer alignments.
5. Common trench construction serving both storm and sanitary sewer alignments.
6. Crossings of storm and sanitary sewer alignments.
7. Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;
8. Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure investigations.
9. Areas formerly served by combined sewer systems.
10. Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.

11. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).
12. History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).

3.2 Key junction manhole dry weather screening and sampling data

Key Junction Manhole ID	Screening / Sample date	Visual/ olfactory evidence of illicit discharge	Ammonia	Chlorine	Surfactants

3.3 Wet weather investigation outfall sampling data

Outfall ID	Sample date	Ammonia	Chlorine	Surfactants

3.4 Data for each illicit discharge source confirmed through the catchment investigation procedure

Discharge location	Source location	Discharge description	Method of discovery	Date of discovery	Date of elimination	Mitigation or enforcement action	Estimated volume of flow removed

Part IV: 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."

Chief Elected Official or Principal Executive Officer	Document Prepared by
Print name: Daniel V. Jerram	Print name: Cynthia Baumann
Signature / Date:	Signature / Date: