



2020 ANNUAL REPORT

Municipal Separate Storm Sewer System

FARMINGTON, CT

Prepared by

**TOWN OF FARMINGTON
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MARCH 2020

MS4 General Permit
 Town of Farmington 2020 Annual Report
 Existing MS4 Permittee
 Permit Number GSM 000090
 [January 1, 2020 – December 31, 2020]

This report documents the Town of Farmington’s efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2020 to December 31, 2020.

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	Completed	Year 4: Procure or develop stormwater content related to impervious coverage, (metals, oils grease), improper disposal of household waste, preserving wetlands and effects to stormwater, methods of recycling particular materials, and methods of recycling oil and latex paint.	Add to existing library and post to website	DPW	Yearly	Spring, Summer & Winter 2020	
	Completed	Year 3: Procure or develop stormwater content related to mercury and improper waste disposal.	Add to existing library and posted website			Fall 2019	
	Completed	Informational material posted to Town Website: http://www.farmington-ct.org/home/showdocument?id=6537	Add to existing library and posted website			ongoing	

1-2 Address education/ outreach for pollutants of concern*	Complete	Year 4: Procure or develop stormwater content related to impervious coverage, (metals, oils grease), improper disposal of household waste, preserving wetlands and effects to stormwater, methods of recycling particular materials, and methods of recycling oil and latex paint.	Publish Information			Spring, Summer & Winter 2020	
	Complete	Year 3: Publish stormwater content concerning the hazards of mercury switches and thermometers and issues with improper waste disposal.	Publish Information	DPW	Yearly	October 2019 & April 2020	
	Complete	Informational material posted to Town Website: http://www.farmington-ct.org/home/showdocument?id=6537	Publish Information				January 2017
1-3 Green Efforts Commission	Ongoing	Due to COVID restrictions, cleanup days and events were cancelled. Committee posted information on Social Media and Newsletters promoting and encouraging residents to participate in events independently.	Information posted to website, flyers, Annual Newsletter, and Everbridge Notification System.	DPW & Green Efforts Committee	Yearly	Spring/Summer 2020	Stormwater Pollution Prevention bookmarks and information pamphlets provided in Town Hall lobby. FRWA: River Cleanup 11/2020 Lawn Watering 06/20 Earth Day Cleanup 04/20 Simple Recycling 01/20
1-4 Farmington River Watershed Association	Ongoing	Provided financial assistance to FRWA. Promote FRWA stormwater links and events	Continue to provide assistance to FRWA to assist education efforts, programs and studies of the watershed.	Town of Farmington	Yearly	Spring 2020	
1-5 Stormwater Page on Town Website	Complete	Material has been collected and stormwater website is on-line.	Publish and maintain a stormwater-specific webpage on Town Website	DPW	Jul 1, 2018	Spring 2018	As new information becomes available it is added to the website.

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

- Publish material in the Town’s Newsletter
- Host Town-wide Cleanup Day should COVID restrictions allow
- Host a Spring and Fall Bulky Waste Collection
- Update Stormwater Page on Town Website as new information becomes available
- Information pamphlets / book marks to be provided at Town Hall in the Spring / Summer

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.
2020 Spring, Summer, Fall and Winter newsletters	All Residents	Clean up day, Impervious coverage, Household Hazardous Waste disposal of everyday items, Household Hazardous Waste Collections	Metals, Oils, & Grease Latex Paints	DPW
Stormwater Pollution Prevention bookmarks distributed at Town Hall	Residents	Stormwater Quality	Bacteria, nitrogen and phosphorus	DPW

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 Continue availability of Final Stormwater Management Plan to the Public	Complete	Plan is posted to the Town website http://www.farmington-ct.org/departments/engineering/stormwater		DPW	On-going	On-going	Plan is available on Engineering Department page of website
2-1 Comply with public notice requirements for Annual Reports	On-going	Publish Notice about MS4 Plan and Annual Report	Publish Notice on website and through Everbridge	DPW	Jan 31, 2021	Jan 31, 2021	Plan will be posted and available for a 30-day comment period as required. COVID restricted community events. Residents urged to get out and perform a day of cleanup on their own. Due to COVID restrictions, the total number of events had been reduced from (3) to (2).
2-2 Promoted Clean Up Town Event	Ongoing	Publish notice in Town Newsletter, Website, and Everbridge	Residents help remove trash from parks, playgrounds, roadsides and riverbanks	DPW & Green Efforts Committee	Yearly	April 2020	
2-3 Hosted Household Hazardous Waste Collection Events	Ongoing	Publish notice in Town Newsletter, Website, and Everbridge	Residents dispose of hazardous waste properly	DPW & Green Efforts Committee & Conservation Commission	Yearly	June 13, 2020 Oct 17, 2020	
2-4 Hosted Shredding Events	Ongoing	Publish notice in Town Newsletter, Website, and Everbridge	Residents dispose of material properly	DPW Green Efforts Committee	Yearly	June 13, 2020 Oct 17, 2020	Due to COVID restrictions, the total number of events had been reduced from (3) to (2).
2-5 Partner with Local Volunteer Organizations	On-going	Provide financial assistance to the FRWA annually. Support Wild and Scenic River Act events.	Financial assistance. Promote & distribute FRWA Wild & Scenic River Act events.	Town of Farmington	Yearly	Spring/Summer 2020	

2-6 Hosted Bulkwaste Pickup	Ongoing	Publish notice in Town Newsletter, Website, and Everbridge	Residents dispose of material properly	DPW	Bi-Annual	April 20-24, 2020 Oct. 19-23, 2020
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2.2 Describe any Public Involvement/Participation activities planned for the next year, if applicable.

Host the following Events:

- Household Hazardous Waste Cleanup
- Shredding event
- Townwide Cleanup Day should COVID restrictions allow
- Spring and Fall Bulky Waste Collection
- Annual posting of the Stormwater Report for public comment
- Continued posting of the Stormwater Management Plan

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan announced to public	Y	March 15, 2017	http://www.farmington-ct.org/departments/engineering/stormwater
Availability of Annual Report announced to public	Y	January 31, 2021	http://www.farmington-ct.org/departments/engineering/stormwater

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	Completed	Town completed IDDE Plan	Implement IDDE program	DPW	Jul 1, 2018	Plan was completed April 23, 2018	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	Completed	Town wide mapping completed	Town wide Mapping	DPW	Jul 1, 2019	Jul 1, 2019	Town continues to update database as needed. Data is stored in town wide GIS mapping database.
3-3 Implement citizen reporting program	Completed	Received and acted on complaints as received	Track citizen complaints	DPW	Jul 1, 2017	Jul 1, 2017	Currently review and act on any complaints as received. Town has included an email link on Town Website.
3-4 Establish legal authority to prohibit illicit discharges	Completed	Reviewed Existing Ordinance for compliance with current MS4 requirements	Enforce ordinance as required	DPW	Jul 1, 2018	July 1, 2018	Existing Ordinance was reviewed and found to satisfy current permit requirements.
3-5 Develop record keeping system for IDDE tracking	On-going	Spreadsheet developed to track IDDE, includes criteria noted in permit	Spreadsheet created	DPW	Jul 1, 2017	July 2018	Current reports are limited to erosion control
3-6 Address IDDE in areas with pollutants of concern	In Progress	Sampling commenced	Continue with sampling	DPW	Not specified		2018 Wet weather sampling within the Batterson Park Pond Basin (4401-00-1-L1). Due to COVID Pandemic and many property owners working from home, it was determined to refrain from testing during 2020 due to concerns of coordinating access through private properties.

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

Continue with IDDE dry and wet weather screening.
 Contract with Consultant to assist with IDDE dry and wet weather screening
 Maintain master IDDE tracking spreadsheet and ensure all employees involved in IDDE program understand the logging process.
 Continue with identifying priority areas and maintaining the detention/retention database.

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

Date of Report	Location / suspected source	Response taken
May 28, 2020	13 or 15 Forest Hills Drive	During catch basin inspections, discovered odor concern and possible laundry flow into CB. FVHD was informed. Currently working with owners to determine whether in-fact connection is made. If so, owner will be instructed to remove.
May 12, 2020	1179 Farmington Avenue	Phone call regarding illegal activity onsite. Inspection determined owner had filled wetland in close proximity to the Farmington River. Cease & Desist issued, erosion control installed, and owner currently working with Town Inland Wetlands Commission regarding restoration plan.
July 21, 2020	15 Pond Street	Phone call regarding illegal activity onsite. Inspection determined owner had filled wetlands draining to Lake Garda. Cease & Desist issued, erosion control installed, site stabilized. Town Inland Wetlands Commission approves wetland scientist restoration plan for spring 2021.
Summer 2020	37 Mountain Lane	Ongoing concerns with erosion control. Several measures were completed to prevent continued offsite erosion. Worked closely with contractor through fall to implement multiple erosion control measures. Monitoring will continue through Spring & Summer 2021.
Summer 2020	Tanbark Trail	Ongoing concerns with erosion control. Worked closely with contractor through the fall to implement multiple erosion control measures. Monitoring will continue throughout 2021.
November 5, 2020	2 Harlan Road	During catch basin inspections, discovered possible laundry flow into CB. Currently working with owner to determine whether in-fact connection is made. If so, owner will be instructed to remove.
December 11, 2020	15 Hemlock Notch	During catch basin inspections, determined recent illegal dumping of apparent “fry-oil” into catch basin. Further inspections confirmed oil contained to CB. Contacted WPCP and basin was cleaned on 12/11/2020. Letter sent to neighborhood on 12/18/2020 informing them of the cleanup and also reminding them of importance of stormwater and negatives of illegal dumping.

3.4 Provide a record of illicit discharges occurring during the reporting period and SSOs occurring July 2014 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)
	No reported illicit discharges for 2020					
Westfarms Pump Station (500 South Road)	August 25 th , 2019 (1000hrs) August 26 th , 2019 (0800hrs)	N	N/A	Catastrophic Wear Ring Failure	Critical Spares onsite were installed	N/A
Stanley Pump Station (58 Scott Swamp Rd)	April 17 th , 2019 (1230hrs) April 17 th , 2019 (1315hrs)	N	<10,000 gal	Station Electrical Failure	New breaker was installed	N/A
7 Wildcat Drive	March 8, 2016 (2000hrs) March 8, 2016 (2100hrs)	N	<100 gal	Mainline backup	Plug was removed from manhole and mainline cleaned	N/A
20 Scott Swamp Road	March 18, 2015 (1330hrs) March 18, 2015 (1430hrs)	N	<1,000 gal	Mainline backup	Manhole and mainline cleaned	N/A
Depot Place (cul-de-sac)	Sept 9, 2014 (0930hrs) Sept 9, 2014 (1030hrs)	N	<500gal	Mainline backup	Manhole and mainline cleaned	N/A
308 Farmington Ave	April 24, 2014 (2230hrs) April 24, 2014 (2330hrs)	N	<1,500gal	Forcemainline backup	Forcemain repaired	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.

Any illicit discharge complaint is received and logged in the tracking spreadsheet, and upon investigation, the DPW Engineering Division is notified as to whether the complaint was valid, the connection removed, or if further action is required. In the case of Erosion Control Violations, the sediment is removed, and the erosion control measures are installed or improved and when necessary restoration plans are reviewed and approved by the Inland Wetlands Commission.

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
9 Aqueduct Lane	Install new tank and leaching fields	4300-00-5+R4
40 Carriage Drive	Install new tank	4315-00-4-R6
192 Coppermine Road	Install new tank and leaching fields	4300-21-1
14 Fairview Drive	Install new tank	4401-00-1-L2

36 Fairview Drive	Install new tank	4401-00-1-L2
30 Forest Hills Drive	Evaluation Conducted	4315-00-4-R5
11 Griffinville Road	Install new tank and leaching fields	4300-28-1-L1
22 Hyde Road	Install new tank and leaching fields	4315-00-4-R5
465 Main Street	Install new tank	4315-00-4-R5
92 Mountain Road	Install new tank	4300-26-1
124 Mountain Road	Evaluation Conducted	4300-26-1
136 Mountain Spring Road	Install new tank	4300-27-1
145 Mountain Spring Road	Install new tank	4300-27-1
1119 New Britain Avenue	Install new tank	4315-00-4-R6
1 Orchard Road	Failure – New system under design	4401-00-1-L2
15 Orchard Road	Install new tank	4401-00-1-L2
20 Orchard Road	Install new tank	4401-00-1-L2
513 Plainville Avenue	Replace house sewer pipe	4300-21-1
516 Plainville Avenue	Install new tank and leaching fields	4300-21-1
859 Plainville Avenue	Install new tank	4315-13-2-L2
67 Red Oak Hill Road	Install new tank and leaching fields	4300-00-4+R17
67 Reservoir Road	Install new tank	4315-15-1
47 Shady Lane	Failure – New system under design	4403-01-1
5 Taine Mountain Road	Install new tank	4300-22-2-R1
23 White Oak Road	Failure – New system under design	4403-02-1
88 Woodpond Road	Install new tank and leaching fields	4403-01-1
117 Woodpond Road	Install new tank	4403-00-1-L1

Note: All data obtained from Farmington Valley Health District

3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	534**
Estimated or actual number of interconnections	137
Outfall mapping complete	100%
Interconnection mapping complete	100%
System-wide mapping complete (detailed MS4 infrastructure)	100%
Outfall assessment and priority ranking	100%
Dry weather screening of all High and Low priority outfalls complete	60%
Catchment investigations complete***	0%
Estimated percentage of MS4 catchment area investigated***	0%

**Number revised after further review and field investigation of mapping system.

***Desktop review of catchment investigations is underway with the intent of conducting field investigations this spring. There are a limited number of catchments that require investigation in Farmington due to the limited System Vulnerability Factors (SVF) that apply to Farmington. The SVFs that apply to Farmington are sewer pump stations, crossing of storm and sanitary sewer alignments, sanitary sewer alignments known or suspected of being constructed with an underdrain system, and sewers in moderate to dense areas that exceed 40 years of age.

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).

Stormwater training of Town employees is through on-the-job instruction and training by supervisors, consultants, and through employee's attending University of Connecticut Technology Transfer training programs. The primary focus of the training continues to be the cross training of existing employees within the divisions that make up the Department of Public Works, aimed at ensuring a broader understanding of the roles of each member of the staff assigned specific stormwater management responsibilities, and how those activities are integrated to minimize the Towns impact to the environment and to meet the obligations of the stormwater general permit.

The Town held a formal training program for new employees and a refresher for existing employees on March 26, 2019. During 2020, due to gathering limitations imposed by COVID-19 restrictions formal IDDE training was not held. Instead, Highway and Grounds employees were notified during their regular Monday safety meeting to be aware of possible illicit discharges and to report their supervisor.

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	Complete	Article IV, Sections 11 and 25 of the Farmington Zoning Regulations requires the submission of an E & S plan for all projects with earth disturbance greater than ½ acre and stormwater quality system designs	The Planning and Zoning application checklist requires the submission of an E&S plan and stormwater design and mitigation.	DPW	Jul 1, 2019	Completed.	The zoning regulations require the submission of complete plans and technical documents that include all soil erosion and sedimentation control parameters and stormwater management and mitigation measures.
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Complete	Town Manager Policy and Procedure#0402 outlines the interdepartmental review requirements.	The Interdepartmental review process is implemented with every Land Use Application.	DPW	Jul 1, 2017	Completed. Implemented prior to 2017.	
4-3 Review site plans for stormwater quality concerns	On-going	The review checklist included in Manager Policy and Procedure #0402 includes Stormwater quality elements	Every Land Use Application is reviewed to ensure compliance with the checklist.	DPW	Jul 1, 2017	Completed. Implemented prior to 2017.	
4-4 Conduct site inspections	Complete / on-going (Long Term Maintenance requirements)	The Planning / Engineering Divisions review the installation of all E & S measures during construction; review as-built plans to ensure all storm drain elements are installed per plan; and long term maintenance of storm drain elements are the responsibility of the owner.	E&S sign-off required prior to issuance of Building Permit. Review of As-built plan required prior to the issuance of C.O. Long term maint plan required as part of all Commercial developments.	DPW	Jul 1, 2017	Completed. Implemented prior to 2017. On-going regarding the implementation of the Long Term Maintenance requirements for Commercial Developments.	

4-5 Implement procedure to allow public comment on site development	Complete	<p>The public hearing process allows for public comment for all proposed Land Use Applications.</p> <p>The public can voice concerns to DPW. Concerns brought to other departments are transferred to DPW for management.</p>	<p>Public Hearing – meetings are recorded and minutes issued.</p> <p>Other Public Concerns – most concerns and resolution are documented in writing</p>	DPW	Jul 1, 2017	Completed. Implemented prior to 2017.	
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	Complete	Notification provided to applicants disturbing over 5 acres of land.	Notification provided via Engineering Comments. All Land Use approvals are subject to the resolution of Engineering Comments.	DPW	Jul 1, 2017	Completed. Implemented prior to 2017.	
4-7 Regulatory Flexibility for Additional Controls as Needed	On-going	Article IV Sections 11 and 25 allow for flexibility in erosion control practices and stormwater management practices	Allowance of innovative water quality techniques	DPW	On-going	On-going	The Engineering Division permits minor modification of erosion control and water quality measures to meet the specific needs of each site.
4-8 Require Maintenance and Operation Plans	On-going	Article IV, Section 11 of the Zoning Regulations	Land Use conditions of approval that require the submission of Long Term Maintenance Reports submitted to the Town.	DPW	On-going	On-going	Land use condition of approval applied to all commercial and subdivision projects requiring the long-term monitoring of stormwater practices with reports submitted annually to the town.
4-9 Interjurisdictional Agreements	On-going	Review of mapping to identify interjurisdictional stormwater discharges / connections	Quantify the number of interjurisdictional connections that exist	DPW	On-going	On-going	work with UCONN NEMO to prepare draft agreements with adjacent municipalities and other agencies as required

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

1. Require Engineer or qualified professional to conduct E & S inspections and to submit E & S monitoring reports from their contractors or engineers for sites that disturb more than 1 acre of land. Reports to be completed monthly and after rainfall events of more than 1-inch.

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	Evaluation of existing regulations for conformance to LID regulations and determine revisions as needed.	Review sample LID Regulations and incorporate into existing Public Works Design Manual or zoning regulations. Modify Zoning Regulations to include the required LID Measures from the permit.	DPW	Jul 1, 2021	Jul 1, 2021	Add to Article IV, Section 25 of the Zoning Regulations
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	Ongoing	Currently require no increase in runoff from proposed developments and concurrence with the CT Stormwater Manual through our Land Use Application approvals. List of public/private detention/retention ponds and water quality measures has been developed.	Modify Zoning Regulations to include the required LID Measures from the permit.	DPW	Jul 1, 2019	Jul 1, 2019	Developers are required to infiltrate roof leaders for commercial and residential property, where practical. Additional infiltration is required where appropriate. Add detention/retention ponds to MS4 Mapping.
5-3(a) Identify retention and detention ponds in priority areas	Completed	List of public/private detention/retention ponds and water quality measures has been developed.	Maintain list.	DPW	Jul 1, 2019	Jul 1, 2019	
5-3(b) Implement long-term maintenance plan for stormwater basins and treatment structures	(TOWN) On-going	Town currently maintains structures as required.	Complete list of structures, perform inspections	DPW	Jul 1, 2019	Jul 1, 2019	Continue ongoing inspections and maintenance as required.

	(PRIVATE) Ongoing	Currently require owners of private stormwater systems to provide long term maintenance plans and annual reports.	Continue review and requirements through Land Use Applications.				Requested annual reports for developments approved and constructed within last three years.
5-4 DCIA mapping	On-going	Continue updating calculation of DCIA for entire Town using CTDEEP approved equations as posted on UCONN NEMO site	Review CTDEEP IC Mapping and calculate DCIA using the CTDEEP/EPA Guidance	DPW	Completed	Ongoing	Calculations complete. Continue to update as required.
5-5 Address erosion and sediment problems in areas with pollutants of concern	On-going	Review projects before, during, and after construction. Continue inspections and make corrections as required and/or notify owners of deficiencies consistent with 5-3A & 5-3B above.	Continue review and inspections	DPW	Ongoing	Ongoing	Town currently reviews project before, during, and after construction. Projects are not approved unless area is stabilized. Cash Bonds are secured if work not completed and released after work has been completed.
5-6 Reduction in Turfed Areas	Complete	Current regulations comply.	Continue to enforce regulations.	DPW	Ongoing	Ongoing	Town Zoning Regulations currently limit impervious coverage to 40%. Limits of tree clearing are strictly reviewed and limited. Zoning Regs also allow for smaller lot sizes in an effort to provide greater preservation and protection of open space and other valuable resources.
5-7 Consistency with Stormwater Quality Manual	On-Going	Modify Zoning Regulations to include the required LID Measures from the permit. Article IV, Section 25 – Stormwater.	Stormwater management practices are consistent with the Stormwater Quality Manual.	DPW	Jul 1, 2018	Jul 1, 2018	

5-8 Coordination with Local Health Department	Ongoing	Continue to actively coordinate with local Health Department (FVHD)	Continue to keep Town and FVHD informed about ongoing activities.	DPW	Ongoing	The Town includes FVHD on all Land Use and Building Permit Applications to coordinate comments. FVHD contacts the Town regarding septic systems in need of repair to discuss viability of connecting to the Town Sanitary Sewer System.
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5.2 Describe any Post-Construction Stormwater Management activities planned for the next year, if applicable.

*Continue requiring annual stormwater monitoring reports as part of Land Use Applications.
 Continue to require erosion and sedimentation control monitoring for active construction projects.
 Continue inspections of Town stormwater infrastructure*

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	165.4 acres
DCIA disconnected (redevelopment plus retrofits)	Review and calculations on-going
Retrofits completed	0
DCIA disconnected	Review and calculations ongoing
Estimated cost of retrofits	\$0
Detention or retention ponds identified	22 that are Town owned / maintained

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

CT DEEP from EPA guidance on DCIA. Implemented the use of the EPA formulas for calculating the DCIA.

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	On-going	Weekly staff meetings with Highway and Grounds employees to review Best Management Practices, safety and general housekeeping items. Industrial General Permit and MS4 Permit training session – annually in the spring.	Attendance taken at each meeting.	DPW	Jul 1, 2017	On-going	During 2020, due to gathering limitations imposed by COVID-19 restrictions formal IDDE training was not held. Instead, Highway and Grounds employees were notified during their regular Monday safety meeting to be aware of possible illicit discharges and to report their supervisor.
6-2 Implement MS4 property and operations maintenance	On-going	Highway & Grounds Annual Fuel System Training – every January; use of spill prevention kits is reviewed annually at training, kits are inspected monthly. Hazardous Material program – SDS sheets are assembled and kept at Highway garage. Sheets are reviewed quarterly at Safety Training.	Attendance taken at each meeting.	DPW	Jul 1, 2018	On-going	Fuel system is part of the Health and Safety program. It is inspected monthly by employees and annually by an independent subcontractor as required by DEEP.
6-3 Implement coordination with interconnected MS4s	On-going	Review of mapping to identify interjurisdictional stormwater discharges / connections	Quantify the number of interjurisdictional connections that exist and with which agency coordination is required.	DPW	On-going	On-going	work with UCONN NEMO to prepare draft agreements with adjacent municipalities and other agencies as required

6-4 Develop/implement program to control other sources of pollutants to the MS4	On-Going	Obtained list of Industrial General Permit registrants. Reviewing list and comparing to previous monitoring locations and the results.	List of General Permit registrants.	DPW	On-going	On-going	Existing IDDE Ordinance in effect. Provides legal authority to pursue corrections to illicit discharges.
6-5 Evaluate additional measures for discharges to impaired waters	On-going	<u>Batterson Park Pond</u> Nitrogen and Phosphorus pollutant of concern. Identified Town owned properties in watershed.	Reviewing use and maintenance practices at Town owned properties. Properties are limited to (2) Schools. Remaining Town-owned properties are Open Space.	DPW	On-going	On-going	Batterson Park Pond: The two schools have very limited applications of fertilizers or pesticides on the athletic fields, in accordance with state regulations.
		<u>Pequabuck River & Roaring Brook</u> Bacteria pollutant of concern. Identified Town owned properties in watersheds	Town-owned properties are limited to Open Space and Westwoods Golf Course.				Pequabuck River: Westwoods Golf Course has occasional problems with geese congregation, they employ the use of noise-making devices to disperse the geese.
							Roaring Brook: Town owned property within the watershed is limited to open space land left in its natural <i>wooded state</i> . Developed spreadsheet of approved projects and reviewed storm drain improvements for each project.
6-6(a) Track projects that disconnect DCIA	On-going	Review Land Use Applications for 2019 – 8 redevelopment projects; all include infiltration of the Water Quality Volume.	Modify Public Works Design Manual to match permit requirements. Review of projects from the last 5 years.	DPW	Jul 1, 2017	On-going	
6-6(b) Implement retrofit projects to disconnect 2% of DCIA	On-going	Will review historic Public/Private projects and track current projects to ensure DCIA reduction.	Review retrofit options at Town-owned properties Tracking list annotated with reduction percentages where applicable.	DPW	Jul 1, 2021	On-going	

6-7 Implement infrastructure repair/rehab program	On-going	Highway Superintendent and Director of Public Works evaluate and prioritize infrastructure repairs	Basins and systems in need of repair are addressed during roadway reconstruction projects, and as needed to ensure functionality of system.	DPW	Jul 1, 2021	On-going	IDDE testing and outfall mapping conducted to date has not found deficiencies in the current system.
6-8 Develop/implement plan to identify/prioritize retrofit projects	On-going	Existing DCIA for Farmington calculated by watershed. Watershed areas then ranked by DCIA percentage and areas that drain to impaired waterbodies.	Determine town-owned land within the priority areas for DCIA reduction. Begin to formulate plan for reductions / retrofits in priority areas.	DPW	Jul 1, 2020	On-going	
6-9 Develop/implement street sweeping program	On-going	All municipally owned streets, parking lots and school parking lots are swept annually each spring.	2020 sweeping activities occurred late March / early April.	DPW	Jul 1, 2017	Completed Annually	
6-10 Develop/implement catch basin cleaning program	On-going	No basins were cleaned in calendar year 2020. Due to COVID, budgets were impacted, and limited expenditures were implemented.	<ol style="list-style-type: none"> 1. Quantity of catch basins cleaned. 2. Volume of material removed. 3. Notification of infrastructure in disrepair where applicable. 	DPW	Jul 1, 2020	Completed Annually	<p>Annual spring municipal street and parking lot sweeping greatly reduces the volume of sediment that can enter the drainage system and be trapped in the catch basin sumps.</p> <p>The contractor notes all infrastructure that is in disrepair and any basin that has an unusually large accumulation of sediment.</p>
6-11 Develop/implement snow management practices	On-going	Deicing material is stored in a covered barn / shed. Material used) is Ice Be Gone by DRVN (I2019/2020) and plain salt. Employees receive material handling training each year prior to the start of snow season. Deicing material is dispersed with truck mounted sanders using the automated Cirrus Controls.	<p>Volume of deicing agent used per season</p> <p>Lane miles treated per season</p>	DPW	Jul 1, 2018	Fall / Winter 2017/2018	

6-12 Develop / implement Parks and Open Space management procedures	On-going	<p>Fertilizers are used sparingly at many municipal/school properties. Pesticides are used only when needed in accordance with state laws</p> <p>Grass clippings are recycled into the lawns.</p> <p>Leaf collection at all municipal / school lots are composted at the Town's Leaf compost facility.</p> <p>Majority of Town owned land in Farmington is left in natural forested state.</p>	<p>Fertilizer and pesticide use rates for 2020 per manufacturer requirements. Commercial Applicator Pesticide Use Summary Reports issued for applications to Town owned land.</p> <p>Leaf compost available to municipal residents at no-cost at leaf compost facility.</p>	DPW	Jul 1, 2018	On-going
6-13 Implement / enforce pet waste management practices	On-going	<p>Pet Waste disposal requirement signs are posted at all parks and trails.</p> <p>There are no dog parks in Farmington.</p> <p>There are no known pet waste issues that pose an immediate threat to wetlands or waterbodies.</p>	<p>Improve Pet Waste disposal signage.</p> <p>Educational material distributed to residents.</p>	DPW	Jul 1 2017	On-going
6-14 Develop / implement water fowl management practices	On-going	<p>Canada Geese are known to congregate at Westwoods Golf Course.</p> <p>Noise-making devices are used to disperse geese.</p> <p>There is no known issue of residents feeding the geese.</p>	Continued use of noise-making devices to disperse geese.	DPW	Jul 1, 2017	On-going
6-15 Review and continue implement plan for vehicle storage, maintenance, fueling, washing, etc.	On-going	<p>Highway and Grounds: All vehicles stored inside. Vehicle maintenance is conducted at the Highway Garage. There is a Vehicle wash bay at the Highway Garage connected</p>	Ensure compliance with Industrial Stormwater permits.	DPW	Jul 1, 2017	On-going

to the POTW through an oil/water separator. There is a vehicle fueling station for all municipal vehicles at the Highway Garage.

Police Dept.

All vehicles are stored outside in a locked enclosure. Vehicle maintenance is conducted at contracted maintenance facilities. Police vehicle washing is done through a contract with a local vendor at an off-site location. Vehicle fueling takes place at the Highway Garage.

Fire Dept.

All fire trucks are stored inside at the respective fire departments.

Fire truck maintenance is conducted off-site at contracted maintenance facilities.

Fire Truck Fueling occurs at the Highway Garage.

All other Municipal vehicles are stored outside; and are maintained off-site at contracted maintenance facilities.

Fueling occurs at the Highway Garage.

6-16 Leaf Management	On-going	Town-wide Leaf Collection program.	Leaf Collection conducted annually through the month of November along all municipal streets.	DPW	Jul 1, 2017	On-going
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6.2 Describe any Pollution Prevention/Good Housekeeping activities planned for the next year, if applicable.

January – Annual Fuel System Training
 Quarterly – Hazardous Material / Safety Mtgs
 Household Hazardous Waste Removal Day – three times
 Weekly safety meetings
 Stormwater Pollution Prevention Plan / MS4 training – annually in spring

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	(yes) / weekly & quarterly, Annual Fuel System Training, Annual Industrial Permit, MS4 training.
Street sweeping	Yes
Curb miles swept	240 miles
Volume (or mass) of material collected – Includes Muni. lots, muni. roads and school lots	373.5
Catch basin cleaning	No
Total catch basins in priority areas	3510
Total catch basins in MS4	3515
Catch basins inspected: basins are inspected for disrepair at time of cleaning and throughout year by DPW personnel	1629
Catch basins cleaned:	0 (Due to COVID Budget Constraints)
Volume (or mass) of material removed from all catch basins	0 CY
Volume removed from catch basins to impaired waters (if known)	0 CY
Snow management	
Type(s) of deicing material used DRVN –“Ice Be Gone” and plain salt	Salt
Total amount of deicing material applied	964 Tons for the 2019/2020 season
Type(s) of deicing equipment used	Truck mounted spreader with Cirus Controls
Lane-miles treated	120 miles / storm
Snow disposal location	Tunxis Mead gravel parking lot when needed due to accumulation.
Staff training provided on application methods & equipment	Yes/Annually prior to snow season.

Municipal turf management program actions (for permittee properties in basins with N/P impairments) (East Farms and IAR are in the Batterson Park Pond Basin)	
Reduction in application of fertilizers (since start of permit)	0%
Reduction in turf area (since start of permit)	0 acres
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems) (No Dog Parks, Batterson Pond Park – owned by City of Hartford, no public sites with failing septic systems.)	
Cost of mitigation actions/retrofits	\$

6.4 Catch basin cleaning program

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

When fully funded the town has embarked on a program that cleans half of all catch basins in year 1 and the other half in year 2. During the catch basin cleaning process the basins are observed and items of disrepair noted for correction. This practice was successfully implemented in 2014, 2015 and 2016. In 2017, the State budget issues and ultimate reduction in funding to the Town of Farmington necessitated a drastic change to this program. The catch basins cleaned aligned with those that were located on the roads that were repaved during the 2017 construction season. 63 basins were cleaned in 2017. In 2018 a lack of funding contributed to a reduction in the number of catch basins cleaned. 20 catch basins were cleaned in 2018. In 2019 approximately 25% of the town's catch basins were cleaned. The basins were located in the southwest quadrant of town, including the industrial areas of Spring Lane and Hyde Road. In 2020 due to COVID and the freezing of expenditures, there were no catch basins cleaned. The town plans to continue to clean catch basins each year on a rotating basis. Additionally, catch basin inspections are performed throughout the year by DPW personnel.

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. [Provide information if available in 2018 report. Section to be completed for the 2019 Annual Report.

Work on this section commenced in 2018 and has been optimized in 2019 with the updated impervious coverage numbers available on the NEMO website. The Town of Farmington has calculated the baseline DCIA utilizing the equations posted on the CT NEMO website. The Town of Farmington used the equations to estimate the DCIA based on the land use in each basin. The basins were then ranked from highest DCIA percentage to lowest and the basins that drain to an impaired waterbody were highlighted and were also moved to the top of the list. The next tasks will involve the Town of Farmington reviewing the list, determining where town owned property is located within the priority areas and evaluating the opportunity for retrofit projects. The Town will then review options for appropriate retrofit projects.

Project Options

Private Development:

New / rehab / renovation/ expansion projects – require the implementation of low impact design or underground infiltration. Infiltrate roof runoff. Use deep sump catch basins and perforated pipe between basins to allow the infiltration of the water quality volume. Use at-grade or underground infiltration systems for stormwater management.

Possible locations: Review on a case by case basis with the receipt of land use applications. Ensure zoning regulations require the infiltration of the water quality volume.

Public Development:

Town owned properties:

Renovations on town owned properties may implement the use of perforated pipe between basins and/or drainage swales prior to discharging to the closed drainage system, wetland or watercourse.

Roadway projects:

Review drainage system and where practical implement an opportunity for the drainage to discharge to a swale or basin prior to connecting to wetland or watercourse to provide an opportunity for the stormwater to infiltrate prior to discharging to the wetland or watercourse.

Consider the use of perforated drain pipe in areas with suitable soil conditions and in areas that would not be detrimental to adjacent utilities.

Possible locations:

Potential projects on Town owned land - new or renovated fire stations; new high school

Potential roadway projects – any full depth roadway reconstruction project – possible location: South Rd at Two Mile Road

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years. [Provide information if available in 2018 report. Section to be completed for the 2019 Annual Report.]

The goal of achieving a 1% DCIA disconnection in years 4 and 5 of the permit will be accomplished through a combination of redevelopment projects and retrofit projects, as projects become available through the permitting process. This will involve a combination of private and public projects.

Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1% DCIA annually over the next 5 years. [Provide information if available in 2018 report. Section to be completed for the 2019 Annual Report.]

The goal of achieving a 1% DCIA disconnection in the 5 years following the permit will be accomplished through a combination of redevelopment projects and retrofit projects, as projects become available through the permitting process. This will involve a combination of private and public projects.

Part II: Impaired waters investigation and monitoring [This section required beginning with 2019 Annual Report]

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.

Town had commenced wet weather sampling of impaired waterbodies in April 2018. Initial focus was to review the Batterson Park Pond area (Basin 4401-00-1-L1). Sampling consisted of (8) outlets flowing immediately upstream of the pond. Of the (8) samples (2) were found to exceed Total Nitrogen (N) which is one of the two pollutants of concerns. The storm drainage connects to multiple properties with large professional office developments.

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

2.1 Screening data

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?
D4-0075	4/25/18	Nitrogen/Phosphorus	Total N <1.7 mg/L Total P = 0.108 mg/L	Tunxis Laboratories	No
GGG-0075	4/25/18	Nitrogen/Phosphorus	Total N = 3.8 mg/L Total P = 0.06 mg/L	Tunxis Laboratories	Yes
PPP-075	4/25/18	Nitrogen/Phosphorus	Total N = 2.7 mg/L Total P = 0.080 mg/L	Tunxis Laboratories	Yes
F4-0075	4/25/18	Nitrogen/Phosphorus	Total N <1.7 mg/L Total P = 0.074 mg/L	Tunxis Laboratories	No
G4-0075	4/25/18	Nitrogen/Phosphorus	Total N <1.7 mg/L Total P = 0.092 mg/L	Tunxis Laboratories	No
K4-0075	4/25/18	Nitrogen/Phosphorus	Total N <1.7 mg/L Total P = 0.054 mg/L	Tunxis Laboratories	No
F5A-0075	4/25/18	Nitrogen/Phosphorus	Total N <1.7 mg/L Total P = 0.087 mg/L	Tunxis Laboratories	No
F5B-0075	4/25/18	Nitrogen/Phosphorus	Total N <1.7 mg/L Total P = 0.064 mg/L	Tunxis Laboratories	No

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
GGG-0075	Investigation of outfall drainage area continues. Area located in Professional Office Zone with multiple properties.	Contact has been made with owners/property management to discuss lawn care and work to develop acceptable BMP's and IPM Plan.
PPP-075	Investigation of outfall drainage area continues. Area located in Professional Office Zone with multiple properties.	Contact has been made with owners/property management to discuss lawn care and work to develop acceptable BMP's and IPM Plan.

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)
NOT REQUIRED AT THIS TIME				

Part III: Additional IDDE Program Data [This section required beginning with 2019 Annual Report]

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	Comments
4300-28-1-L2	High	1	Dense Zoning. Past testing of outlet DDD-0190 (Lakeshore/Brickyard) revealed high bacteria/coliform inspections and further investigations has not revealed cause.
4300-00-4+R15	High	2	Very old sanitary sewers in UNVL Center area. Potential for I/I. High DCIA. Old commercial development area.
4315-13-2-L2	High	3	Large area of older manufacturing uses. High DCIA. Most other areas consist of areas with modern sanitary sewers and manufacturing uses. Located within the Aquifer Protection Zone.
4314-09-1	High	4	High DCIA. Area fully sewered.
4401-00-1-L2	High	5	Mostly sewered. Concerns with Fairview Drive and Orchard Road area with no sanitary sewer and history of septic system repairs and failures. (Proposed sewer project declined by neighborhood.)
4315-13-1	High	6	High DCIA. Area fully sewered. Many modern residential developments with stormwater quality control. Should review older manufacturing on Spring Lane.
4403-04-1-L1	High	7	High DCIA. Most area along Rte 4 is under State of CT control. Fully sewered. Many commercial developments with modern stormwater quality controls. Should review older commercial developments along north side of Farmington Avenue.
4300-20-1-L2	High	8	Residential developments. Fully sewered. Very dense zoning. Drains to Lake Garda.
4403-01-1	High	9	Mostly sewered. Concerns with Woodruff/Ridgeview/ and Woodpond areas area with no sanitary sewer and history of septic system repairs and failures.
4300-00-5+R1	High	10	Very old sanitary sewers. Potential for I/I. High DCIA.
4315-00-4-R5	High	11	Mainly residential developments. Limited public sewer.
4315-15-1	High	12	Very old sanitary sewers. Potential for I/I. High DCIA.
4401-00-1-L1	High	13	Old residential developments. Fully sewered.

4315-13-1-L1	High	14	Mainly residential developments. Mostly sewerred.
4315-00-4-R6	High	15	Mainly residential developments. Limited sewer availability.
4300-00-4+R16	Low	16	Fully sewerred and no signs of illicit discharges.
4300-20-2-R1	Low	17	Fully Sewered. Large Open Space Area.
4312-00-2-R2	Low	18	Mostly private and State of CT outlets.
4403-00-1-L1	Low	19	Fully Sewered. Large Open Space Areas.
4300-28-1	Low	20	Fully sewerred. Large golf course. Limited storm drainage outlets. Many drywells located along edge of road in Devonwood sections.
4300-20-1	Low	21	Mostly sewerred. Large area of Open Space.
4300-21-1	Low	22	Mostly sewerred. Large areas of Open Space.
4300-26-1	Low	23	Mostly sewerred. Large area of Open Space. Limited number of storm outlets.
4300-28-1-L1	Low	24	Fully sewerred. Limited number of storm drainage outlets. Many drywells located along edge of road in Devonwood sections. Large Open Space Area.
4300-00-4+R14	Low	25	Fully sewerred. Modern residential construction with stormwater quality controls.
4300-25-1	Low	26	Fully sewerred. Large areas of Open Space. Limited number of storm drainage outlets.
4300-27-1	Low	27	No sewer. Large residential zoning.
4300-00-5+R4	Low	28	Large golf course. Limited number of storm drainage outlets. Drywells located along edge of road in Devonwood sections.
4300-00-5+R3	Low	29	No sewer. Large residential zoning. Limited number of storm drainage outlets.
4315-14-1-L1	Low	30	Mostly sewerred. Large amounts of Open Space.
4300-29-1	Low	31	No sewer. Large residential zoning. Limited number of storm drainage outlets.
4300-00-4+R17	Low	32	Fully sewerred. Large areas of Open Space, Parks, and athletic fields.
4403-02-1	Low	33	No sewer. Large residential zoning. Limited number of storm drainage outlets.
5200-01-1	Low	34	Large amounts of Open Space. Large Residential Zoning. Fully sewerred. Only (2) storm outlets with no signs of illicit discharges.

4300-22-2-R1	Low	35	Mostly sewerred. Large areas of Open Space. Large recent residential development with stormwater quality controls.
4315-15-1-L1	Low	36	Large amounts of Open Space and undevelopable land. No sewers, however no signs of any illicit discharges to storm.
4403-02-1-L1	Low	37	Large areas of open reserved farmland. Only one storm drainage outlet.
4403-00-1-L2	Low	38	No sewer. Only (2) storm drainage outlets.
4401-02-1	Excluded	39	Majority of area outside of Farmington. No Town owned outlet's
4401-01-1	Excluded	40	Majority of area outside of Farmington. No business's or other areas for illicit discharges.
4315-14-1	Excluded	41	High DCIA. Area fully sewerred. No Town stormwater outlets.
4315-11-1	Excluded	42	Area fully sewerred. No Town stormwater outlets.
4300-20-3-R1	Excluded	43	No Town owned storm drainage outlet's
4300-23-1	Excluded	44	Majority of area outside of Farmington. No business's or other areas for illicit discharges.
4315-13-2-R1	Excluded	45	No storm drainage inlets/outlets. No Development at this time.
4300-00-4+R13	Excluded	46	Majority of area outside of Farmington. No business's or other areas for illicit discharges.
4300-00-5+R5	Excluded	47	Large areas of open reserved farmland. Only one storm drainage outlet. No potential for illicit discharges.
4300-00-5+R2	Excluded	48	Large golf course. Only one storm drainage outlet (cross culvert). No potential for illicit discharges.
5200-00-1-L1	Excluded	49	Open Space Area. No business's or other areas for illicit discharges.
4300-24-1	Excluded	50	Majority of area outside of Farmington. No business's or other areas for illicit discharges.
4300-22-1	Excluded	51	Majority of area outside of Farmington. No business's or other areas for illicit discharges.

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

*NOTE: We have commenced dry-weather outlet sampling and have sampled approximately 60% of the outlets. At this time we have not experienced any outlets with any unknown flow.

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

*NOTE: We have commenced dry-weather outlet sampling and have sampled approximately 60% of the outlets. At this time we have not experienced any outlets with any unknown flow.

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
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***NOTE: At this time we are currently focusing on completion of dry-weather sampling before any illicit discharge investigation can begin.**

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
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None at this time

3.3 Wet weather investigation outfall sampling data

Outfall ID	Sample date	Ammonia	Chlorine	Surfactants
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None at this time

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
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None at this time

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: <i>Katleen A. Gorski</i>	Print name: <i>Russell M. Arnold</i>
Signature / Date: <i>3/19/2021</i>	Signature / Date: <i>Russell M. Arnold</i>

*Katleen A
Gorski*