



Connecticut Department of
Energy & Environmental Protection
Bureau of Materials Management & Compliance Assurance
Water Permitting & Enforcement Division

MS4 Annual Report Transmittal Form

For the General Permit to Discharge Stormwater from Small Municipal Separate Storm Sewer Systems (MS4)

Print or type unless otherwise noted. Please submit this completed transmittal form, fee, and the MS4 Annual Report as indicated at the end of this form.

CPPU USE ONLY

App #: _____

Doc #: _____

Check #: _____

Program: Stormwater Permits

Part I: Annual Report General Information

- Reporting Period (Calendar Year): 2018
- Provide the registration number for the existing general permit registration: GSM 000082

3. Registrant Type (check one):

Fees

☐ state institution/agency

\$375.00 [713]

☐ federal institution/agency

\$375.00 [713]

☒ municipality

\$187.50 [713]

- Municipality name or Municipality name where institution is located: Town of Southington

The annual report will not be processed without the fee. The fee shall be non-refundable and shall be paid by check or money order to the Department of Energy and Environmental Protection (DEEP) or by such other method as the commissioner may allow.

Part II: Registrant Information

- Registrant (Name of Municipality or State or Federal Institution/Agency): Town of Southington

Mailing Address: 75 Main Street

City/Town: Southington

State: CT Zip Code: 06489

Business Phone: 860-276-6200

ext.:

Contact Person: Keith Hayden, P.E.

Phone: 860-276-6231 ext.

*E-mail: haydenk@southington.org

*By providing this e-mail address you are agreeing to receive official correspondence from DEEP, at this electronic address, concerning the subject registration. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify DEEP if your e-mail address changes.

Part II: Registrant Information (continued)

2. Billing contact, if different than the registrant.

Name:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.:

Contact Person:

Phone:

ext.

E-mail:

3. Primary contact for departmental correspondence and inquiries, if different than the registrant.

Name:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.:

Contact Person:

Phone:

ext.

*E-mail:

*By providing this e-mail address you are agreeing to receive official correspondence from DEEP, at this electronic address, concerning the subject registration. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify DEEP if your e-mail address changes.

4. Engineer(s) or other consultant(s) employed or retained to assist in preparing the annual report.

☐ Check here if additional sheets are necessary, and label and attach them to this sheet.

Name: **Town of Southington Engineering Department**

Mailing Address: 196 North Main Street

City/Town: Southington

State: CT

Zip Code: 06489

Business Phone: 860-276-6231

ext.:

Contact Person: James Grappone, P.E.

Phone: 860-276-6231

ext.

E-mail: grapponej@southington.org

Service Provided: **Preparation of Annual Report**

5. ☐ Check here if there are adjacent towns or other entities with which implementation of the Stormwater Management Plan is coordinated for a portion of the subject MS4. If so, provide the names of such towns or entities: _____

Part III: Registrant Certification

The registrant *and* the individual(s) responsible for actually preparing the annual report must sign this part. [If the registrant is the preparer, please mark N/A in the spaces provided for the preparer.]

"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 the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief.

I certify that this annual report transmittal is on complete and accurate forms as prescribed by the commissioner without alteration of the text.

I certify that the following public notice requirements have been met.

- ☒ **Annual Report Availability:** At least forty-five (45) days prior to submission of each Annual Report to DEEP, pursuant to Section 4(d)(3) of the MS4 General Permit, each permittee shall make available for public review and comment a draft copy of the complete Annual Report. Comments on the Annual Report may be made to the permittee and are *not* submitted to DEEP. Reasonable efforts to inform the public of this document shall be undertaken by the permittee. Such draft copies shall be made available electronically on the permittee's website for public inspection and copying, consistent with the federal and state Freedom of Information Acts, and shall be made available, at a minimum, at one of the following locations: the permittee's main office or other designated municipal or institution office, a local library or other central publicly available location. Following submission of the Annual Report to DEEP, a copy of the final report shall be made available for public inspection during regular business hours.

I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute.

I also certify that the signature of the registrant, or a duly authorized representative, being submitted herewith complies with section 22a-430-3(b)(2)(B) of the Regulations of Connecticut State Agencies.

Signature of Chief Elected official or Principal Executive Officer

4/5/19

Date

Mark J. Sciota

Town Manager

Printed Name of Chief Elected official or Principal Executive Officer

Title (if applicable)

Signature of Preparer (if different than above)

4/5/19

Date

James A. Grappone

Assistant Town Engineer

Printed Name of Preparer

Title (if applicable)

Note: Please submit 1) this completed Transmittal Form and the Fee to:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

- 2) a copy of this completed Transmittal Form and the Annual Report electronically to the following email address: DEEP.StormwaterStaff@ct.gov.

Refer to www.ct.gov/deep/municipalstormwater for information on Annual Report Templates or other additional information concerning the MS4 General Permit.

In the event that electronic submission is not available or possible, please contact the Stormwater Section at 860-424-3025.

MS4 General Permit
Town of Southington 2018 Annual Report
Existing MS4 Permittee
Permit Number GSM 000082
January 1, 2018 – December 31, 2018

This report documents the Town of Southington's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2018 to December 31, 2018.

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	On-going	<ul style="list-style-type: none"> Continue to develop and update the Town's website (http://www.southington.org) with pertinent information concerning Stormwater/urban runoff and its affects on the environment. Continue to partner with environmental advocacy organizations , such as the Quinnipiac River Water Association (QRWA) and Save the Sound. 	Number of volunteers/projects	Engineering/ James Grappone	Ongoing	Ongoing throughout the General Permit	

1-2 Address education/ outreach for pollutants of concern*	Complete	<ul style="list-style-type: none"> Town Clerk Handing out brochure on picking up pet waste "Here's The Scoop, Pick Up After Your Pet" to residents who register their pets. 	1000 brochures distributed	Engineering/Town Clerk	July 1, 2018	July 2018	The brochures were sent out with annual registration notices.
		<ul style="list-style-type: none"> Trout Release in Meriden assisted by QRWA 	Educate Southington Middle School Students on the environment	John Duffy (PreK – 12 Science Curriculum Coordinator)	Spring 2018	May 2018	
		<ul style="list-style-type: none"> Homeowner's Guide to Maintaining Septic Systems which is produced by the US EPA 	Raise awareness for pollutants of concern	Health Dept.	July 1, 2018	July 1, 2018	"Do Your Part – Be Septic Smart!" brochure given
		<ul style="list-style-type: none"> Terracycle program to collect empty personal care, snack bags, Brita Filters to ship to a recycler/upcycler collection center. 	Raise recycling awareness	Southington Land Trust			
1-3 Integrate water quality into school curriculum	In progress	<ul style="list-style-type: none"> Planning a water unit for Grade 6 this spring. We will focus on runoff, the difference between point and non-point pollution and the actions that homeowners can take to minimize impacts from runoff. 	Educate students on common stormwater, pollution prevention & water quality topics	Engineering/James Grappone Southington Public Schools/John Duffy	July 1, 2019	Plan to implement program during 2019 school year	In addition, water quality education is incorporated in high school during the school year under the Environment Science Program.

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

Coordinate with school officials to determine feasibility of program with Quinnipiac River Watershed Association involving environmental educational tours and activities for the high school and elementary school. QRWA does a similar program in Meriden, Cheshire, Wallingford and New Haven School Systems.

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.
Earth Day Clean-up (April 21 st & 22 nd 2018)		Removal of Debris on the Rails to Trails and Novick's Orchard Open Space.	Litter	Southington Land Trust
Quinnipiac River Clean-up (June 23, 2018)	Land Trust Members and Their Families		Debris – furniture, pipes, carpets, tarps, computer monitors	QRWA with support from The Southington Land Trust
Trumbull Park Clean-up in Plainville (September 15, 2018)		Removal of Debris	Litter	Plainville Conservation Commission and The Southington Land Trust
Townline Clean-up (November 3, 2018)				
Fall Clean-up at Crescent Lake around the perimeter trail			3 Bags of Trash Removed	The Southington Land Trust
Household Hazardous Waste Collection Days	Regional – 14 Towns			Hosted by Tunxis Recycling Center
Christmas Tree Recycling Program	100 Participants	Conserving land and wildlife habitat		Ask for \$15 to recycle tree. Donations go for Land Use Programs.

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	Completed	Completed registration and General Permit for SMP		Public Works/Director	Ongoing	May 17, 2017	
2-2 Comply with public notice requirements for Annual Reports	Completed	Published public notice		Public Works/Director	Feb 15, 2019	February 15, 2019	
2-3 Public Comment Reporting	In Progress			Public Works/Director		Ongoing throughout The General Permit	The Town has not received any comments to date.

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

Continue to reach out to local organizations, such as QRWA, Southington Serves, Southington Community Services, Activate Southington, scout troops, that may want to participate in the review and implementation of the SMP.

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan announced to public	Yes	5/17/17	Engineering Department, Public Library and website (www.southington.org)
Availability of Annual Report announced to public	Yes	2/15/19	Engineering Department, Public Library and website (www.southington.org)

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	Town is in process of completing written IDDE program using the CT IDDE program template	Develop written plan of IDDE program	Public works, Planning & Zoning Commission, Conservation Commission/Directors	Jul 1, 2018	Anticipate completing by July 1, 2019.	The plan will be added as an appendix to the Planning & Zoning Regulations.
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	In progress	The list of outfalls to be investigated for all impaired water bodies has been mapped and most field verified.	Inspect all outfalls	Public Works/Director	Jul 1, 2019	Anticipate completing by the July 1, 2019 deadline.	During the summer with the assistance of two interns, the Town did initial screening & evaluation of dry weather flow at 1100 outlet locations.
3-3 Implement citizen reporting program	Complete	The Town of Southington's Engineering website encourages citizens to report illicit discharges through a "Report Stormwater and Erosion Complaint" function.	Promote citizen reporting of illicit discharges into the Town's storm drainage systems	Public Works James A. Grappone, P.E.	Jul 1, 2017	April 2018	Complaints are emailed to Public Works/Engineering
3-4 Establish legal authority to prohibit illicit discharges	In progress	The Town has a draft Illicit Discharge Ordinance which will be adopted by all major Boards and Commissions.	Ordinance adopted and included in Code and Aquifer Protection/Zoning Regulations.	Town Council, Planning & Zoning Commission, Conservation Commission/Directors	Jul 1, 2018	Anticipate completing by July 1, 2019	Public hearing and/or informational meeting will need to take place before the respective Boards and Commissions adopt the ordinance.
3-5 Develop record keeping system for IDDE tracking	In progress	The Town hired Anchor Engineering to take initial screening at 34 Outfalls to impaired water bodies. 29 of these outfalls were noted discharging	Create and maintain a reliable system for recording stormwater issues and tracking illicit discharges.	Public Works/Director	Jul 1, 2017	Anticipate completing by July 1, 2019	Investigation (data) will be collected on a tablet and uploaded onto the Town's GIS layer.

		during two sampling events.		
3-6 Address IDDE in areas with pollutants of concern	Not Started	No activities to declare during the reporting period.		Not specified

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

- Utilize the IDDE program to begin baseline and catchment area based on the sampling (dry and wet) program.
- Close out gaps in Town wide MS4 GIS stormwater data.
- Continue IDDE outfall screenings in MS4 priority area
- Establish a written procedure for illicit discharge concerns, record and track by the Department of Public Works citizen reports of suspected illicit discharges received during the reporting period.

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)
64 South Center Street	1/8/18	NO		Reported backup, resident called DDD, they used large rooter machine a number of times to clear line , failed attempt. Glen called TOS, TOS came out and found evidence supporting failed drainage in TOS line.	Peter Stallings told Glenn to come down to Sewer Office with receipt and request reimbursement for the amount he spent when it was not his issue.	
432 South End Road	1/9/18	NO		Received a call about a sewer back-up at #432 South End Road. The owner said the sewer backed up in her shower three times in the last two weeks.	TOS main lines are clear, but we are investigating what might be the issue. Having the line videoed.	
432 South End Road	1/12/18	NO		Resident contacted Town Manager's office to report another backup. We are investigating issue to determine the source of the problem. Suspect grease issue from Aqua	TOS sent AIR out to clean up. TOS had line videoed the line and found a sag in the lateral. We had Contractor repair the line in the TOS easement. Also, Aqua Turf has since installed a 2000 gallon external grease trap.	

				Turf.	
141 Summer Street	1/16/18	NO		Received a call from a tenant over at 141 Summer Street National Magnetic Services. They have a toilet that is backing up and water is shut off.	The lateral for 141 Summer discharges to the old borough interceptor. From the video taken back in 2009 the lateral is noted as, loaded with roots. TOS had Layne line this location.
960 Meriden Waterbury Tpke	1/16/18	YES	1-50 gallons	Received a call from the Food Bag, Manager said there is something bubbling up and out of the manhole cover in the parking lot.	This was caused by an issue we were having with one of our pump stations. Grease and rags on the bubbler line. WPC addressed and resolved the issue.
163 Thistle Lane	1/18/18	YES	1-50 gallons	Sewer backup into basement - dispatched a crew to check the main line.	Main line was not flowing - a 3 ft 2x4 in the line. Advised homeowner to call Servpro. Servpro is conducting the cleanup and restoration of the basement. TOS cleared the main line free of debris.
95 Robert Porter Road	2/5/18	NO	n/a	The owner hired contractor to investigate the cause of sewer line issue. Contractor thinks that the issue is at the wye. We would like to get a better look at the main and have Beetle video this section.	TOS sent crew out, flushed the line, it appeared to be fairly clean of debris. Further investigation suggests the issue is with a collapsed sewer line on the private property. We have scheduled Beetle to video the line.
Lazy Lane (between Rt 10 & Triano Dr)	2/28/18	YES	1-50 gallons	Report of a sanitary flow	WPC cleaned, flushed and removed existing plug in line.

				<p>issue on Lazy Lane between Route 10 and Triano Drive. Solids seem to be building up just upstream of the river crossing. The second issue is that there appears to be a plug that was never removed when they installed the sewer in back of Triano.</p>	
1079 Queen Street	3/15/18	YES	1-50 gallons	<p>Resident called, said that his contractor snaked the line from the building to the street and then popped the manhole in the street and said it was clogged. Received a call reporting a back-up. Resident contacted a plumber, snaked the line, popped the cover on the main in the road and said that is where the issue is.</p>	Blockage on Queen Street has been cleared. No damage reported, problem possibly grease. The crew will remain to make sure the line continues to flow to the Queen Street station. 3/16/2018 WPC went back out to Queen Street to re-jet the line.
1255 Meriden Waterbury Tpke	4/13/18	NO	n/a	<p>Received a call reporting a back-up. Resident contacted a plumber, snaked the line, popped the cover on the main in the road and said that is where the issue is.</p>	Blockage in the main line caused by grease, WPC cleared the blockage. The one restaurant in the area is Sam the Clam. TOS Will follow up to inspect the grease trap.
258 Carter Lane	4/14/18	NO		<p>Sewage backed up into the basement at this location. She</p>	Main line blockage - WPC responded and cleared grease from our line clearing the blockage. TOS had Layne Inliner line the sewer lines on Carter Lane.

				further stated that she had contacted ServPro to clean and restore her home.	
259 Carter Lane	4/14/18	NO		Backup at 259 Carter Lane on 4/14/18. The homeowner contacted AIR to clean up.	Main line blockage - WPC responded and cleared grease from our line clearing the blockage. TOS had Layne Inliner line the sewer lines on Carter Lane.
65 Scenic Drive	4/16/18	NO		Back up reported at 65 Scenic Drive. Sewage entered her basement through the sink drain. Town Department responded to a request by the Southington PD.	Main line surcharged - due to high amounts of rain (10 year storm). Our lines in the street were surcharged with the levels up to the tops of the manholes.
163 Michael Drive	4/27/18	NO	n/a	Resident called to report the ground is very wet and smells like sewer in the area of sewer easement that runs through the property.	There is a broken drop pipe at the MH in front of #127. Crew dispatched and cleaned up. TOS contracting repair work with Brian Marek.
6 Wilber Street	6/20/18	NO		Received a call from the homeowner, Julia mentioned that last year she had a sewer backup at her home at 6 Wilbur. She contacted a plumber. Two neighbors also had backups in	TOS Contacted Layne Inliner to video and line this section.

59 West Center Street	6/27/18	NO		the last year, but our main line was flowing fine.	
73 Water Street	9/7/18	YES	1-50 gallons	Received a call about a sewer smell at the restaurant for a couple of days. Received call to report a backup. He had Rotor Rooter come out, but they were unable to determine the cause. TOS had WPC dispatched.	There was a blockage in our line. WPC cleared the line. They will go out again today to recheck the line. TOS will add this location to hotspots list and will jet the line more frequently to prevent grease from building up in the line. WPC took the Vac-Con out there and jetted the line. After sending the hose up the line WPC found that our line was partially blocked.
133 Mill Street / Farmstead & Hightower Rd	12/20/18	YES	51-500 gallons	In the back of the Premus property, located at 133 Mill Street, report of sewage coming out of one of the manholes.	Tree branches got into the collection system and caused the blockage. We will secure the manhole covers so they can only be opened by authorized personnel. The water did backup out of the manhole and I filed the bypass report for DEEP.

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

Illicit Discharge reports as well as other stormwater and erosion related issues/concerns are received by the Department of Public Works. The information is put into Municipality (permit and complaint tracking system) and stored in a database. The DPW administrative assistant and/or engineer reviewing the report have the ability to generate a work request via email to investigate and follow through on resolving the issue reported.

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
72 East Street	repair	
1602 Mt Vernon Rd	repair	
71 Frost Street	repair	
113 Cianci Drive	repair	
39 Horne Circle	repair tank	
149 Deer Run	repair	
162 Alder Lane	repair tank	
58 Masters Drive	repair tank	
61 Jody Lane	repair tank	
231 Diana Rd	repair tank	
956 West Center St	repair tank	
345 Belleview Ave	repair tank	
655 Savage St	repair	
462 Lazy Lane	repair	
118 Summit Farms Rd	repair tank	
60 Panthorn Tr	repair	
81 Winter Park Rd	repair	
7 Fleetwood Rd	repair	
23 Stacy Cate Dr	repair tank	
120 Sunnyslope Dr	repair	
18 Millbrook Ln	repair	
21 Andrews St	repair	
184 Diana Rd	repair	
27 Robindale Drive	repair tank	
71 Orchard Lane	repair	
32 Hidden Hills Drive	repair	
63 Claudia Drive	repair	
23 Holly Hill Drive	repair tank	
361 Bellaview Ave	repair tank	

115 Ciccolella Ct	repair tank
1261 E. Johnson Ave	repair tank
280 Andrew St	repair
149 Autumn Dr	repair
159 Autumn Dr	repair
26 Horne Circle	repair tank
79 Holly Hill	repair
451 Jude Lane	repair pipe
829 Mount Vernon Rd	repair
412 Flanders St	repair tank
81 Old Mountain Rd	repair
450 Townline Rd	repair
20 November Lane	repair
55 School Street	repair
230 Hitchcock Rd	repair
35 Jubilee Dr	repair tank
1337 Marion Ave	repair
196 Sunnyslope Dr	repair
194 Carey Street	repair tank
630 Prospect St	repair tank
224 Frost St	repair tank
41 Saw Mill Lane	repair
722 West Center St	repair tank
2 Woodridge Ct	repair
114 Stuart Drive	repair
240 Sun Valley	repair tank
18 Manor Rd	repair
175 Farmingberry Dr	repair tank
290 October Ln	repair tank

3.7 IDDE reporting metrics

Metrics

Estimated or actual number of MS4 outfalls	1104 estimated
Impaired Outfalls :	110 Total
a. Misery Brook – 19	
b. Quinnipiac River – 74	
c. Pattonbrook -17	
Estimated or actual number of interconnection	Rte. 10 – 57 Rte. 120 – 17 Rte. 229 – 17 Rte. 322 – 7 Rte. 364 – 9 Rte. 509 – 1 I-691 – 2 I-84 - 8
Outfall mapping complete	90%
Interconnection mapping complete	30%
System-wide mapping complete (detailed MS4 infrastructure)	90%
Outfall assessment and priority ranking	15%
Dry weather screening of all High and Low priority outfalls complete	Planned for FY 19/20
Catchment investigations complete	20%
Estimated percentage of MS4 catchment area investigated	20%

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).

The Illicit Discharge Detection and Elimination (IDDE) employee training Program was held at the same time as our annual training for MS4 and review of the Stormwater Pollution Prevention Plan for Highway/Parks (March 14, 2019) and the Water Pollution Control Facility (March 21, 2019). Topics covered are Examples of an illicit discharge (sanitary waste water, vehicle wastewater, oil, gas, grease, Laundry washwater, automotive fluids and paints) and that any unusual discharge of odor, discoloration, suds, sheen and dry weather flow should be reported to a 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	Ongoing	Implemented a change in the zoning regulations that allows for less required parking areas for new developments; therefore, reducing the amount of impervious area.	Continually update stormwater regulations in the Land Use documents.	Planning & Zoning, Conservation Commission, IW/Directors	Jul 1, 2019	Anticipated July 1, 2019	The Town has established a "zero increase" in peak flow runoff (storage up to the 25 year storm event) in the regulations for new site plans and subdivisions.
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Complete	Zoning and building permits are tracked using Municipality Software Permit System.	Permitting System tracking	Planning, Engineering, Health, Fire, Building Departments/Dept. Directors	Jul 1, 2017	July 1, 2017	Very good coordination exists between all development departments for technical plan review. Comments are tracked by the Planning Department.
4-3 Review site plans for stormwater quality concerns	Ongoing	Engineering and Planning conduct comprehensive site plan/subdivision plan reviews that incorporate proper stormwater controls and BMP'S to prevent impacts to water quality.	Permitting system tracking	Engineering, Planning/Directors	Jul 1, 2017	Daily/Weekly	The Town executes a standard Stormwater Connection Agreement with any property owner who makes a direct connection to the MS4.
4-4 Conduct site inspections	Ongoing	Engineering & Planning conduct site inspections during installation of public improvements as well as during land disturbances.	Permitting System Tracking	Planning, Engineering, Health, Fire, Building/Department Heads	Jul 1, 2017	Daily, or as required	The purpose of the Town's routine inspections is to assess the adequacy of the installation, maintenance, operation and repair of construction and

4-5 Implement procedure to allow public comment on site development	Complete	Town follows all State of CT Public hearing requirements on applications for P&Z, Subdivision, IW, etc.	Receipt of Green-cards for hearing notices.	P&Z, Conservation, IW/Directors	Jul 1, 2017	July 1, 2017	post-construction control measures and enforcement. The Town follows up on all public comments received during and after the public hearings.
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	Complete	Amount of disturbed area is verified with each application. If the total disturbed area is five or more acres, a "Stormwater and Dewatering Wastewaters from Construction Activities" general permit is required by CT DEEP.	Items on checklist review	Planning/Engineering/Directors	Jul 1, 2017	July 1, 2017	This is an ongoing process and the Town will make changes as necessary.

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

Update the Town of Southington's Stormwater regulations as necessary to comply with the MS4 requirements. Routine inspection of active construction sites are being performed. Implement a checklist for inspector's use when visiting construction sites.

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	Ongoing	Current Zoning and Subdivision regulations including the Conservation Plan of Development include the use of LID for land use design.	Full adoption of LID. Regulations to reduce impervious coverage.	Public works, P&Z, Conservation Commission IW/Director	Jul 1, 2021	Ongoing throughout General Permit.	Need to establish legal authority provisions.
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	Ongoing	Staff review of Zoning & Subdivision regulations to determine possible modifications to better match the requirement of the 2017 General Permit.	The adoption of a LID ordinance.	Public Works, Zoning Enforcement/Directors of each department.	Jul 1, 2019	Ongoing throughout General Permit.	The Town has a ZIRO increase in runoff (ZIRO) guideline in the Zoning/Subdivision regulations since 2005.
5-3 Identify retention and detention ponds in priority areas	Ongoing	All Detentions ponds are mapped on the GIS drainage layer.	Complete list including inspections & ranking of all basins.	Public Works/Director	Jul 1, 2019	Ongoing throughout General Permit	The Town performs inspections during winter maintenance and takes appropriate action.
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	Ongoing	Maintains a list of stormwater basins and treatment structures.	Complete list of all these structures.	Public Works/Director	Jul 1, 2019	By July 1, 2019	The Town performs annual inspections and removes accumulated sediment as necessary.
5-5 DCIA mapping	In progress	Town is in process of analyzing DCIA from mapping provided by UConn Clear.		Public Works/Director	Jul 1, 2020	Anticipated for July 1, 2020	The Town will develop & maintain DCIA within the MS4 priority area.

5-6 Address post-construction issues in areas with pollutants of concern	Ongoing	Perform routine inspections and follow-up on complaints received.	Prioritize areas subject to erosion and sediment.	Engineering/Planning/Health Department – Directors of each department.	Not specified	To run with General Permit
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5.2 Describe any Post-Construction Stormwater Management activities planned for the next year, if applicable.

Expand on data collection for all Town owned detention/retention ponds and underground stormwater treatment structures. The database will also include inspection and maintenance records.

5.3 Post-Construction Stormwater Management reporting metrics

Metrics

Baseline (2012) Directly Connected Impervious Area (DCIA)	Estimated 3,633 acres
DCIA disconnected (redevelopment plus retrofits)	Reduction of pavement area for one commercial site
Retrofits completed	Planned for 2019
DCIA disconnected	0% this year / % total since 2012
Estimated cost of retrofits	Unknown
Detention or retention ponds identified	Unknown

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

Information taken from CT ECO MS4 Map Viewer and UConn Clear.

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 training programs throughout the permit.	Parks/Highway/Treatment Plant employees received annual Industrial Stormwater and MS4 training. Town conducts additional training in street sweeping, catch basin cleaning and repairing, retrofitting of the Stormwater system.	To educate employees to assist in reporting Stormwater issues including illegal discharges.	Public Works/Director	Jul 1, 2017	On-going	Anchor Engineering and Tighe & Bond Engineers performed training on 2/14/19 (Parks/Highway) and 3/21/19 (Treatment Plant)
6-2 Implement MS4 property and operations maintenance	On-going	Under the Industrial General Permit, the Town's Bulky Waste and Garage properties are being maintained. Stormwater samples are being done by Anchor Engineering and submitted to CT DEEP. Parks and trails are being inspected and maintained throughout the year.	Reports for Buildings and Facilities. Identify and evaluate other town buildings and facilities whose operations may impact Stormwater runoff and provide operation maintenance recommendations for each facility. Maintain all Town owned properties in accordance with MS4 General Permit.	Public Works, Town Facilities Managers/Directors, Parks & Recreation Commission, Conservation Commission.	Jul 1, 2018	On-going	
6-3 Implement coordination with interconnected MS4s	On-going	<ul style="list-style-type: none"> The Town has shared GIS information with New Britain, Bristol, Plainville & Cheshire. The Town has begun researching and identifying 	Map and Identify all interconnected MS4's.	Public Works/Director	Not specified		

		interconnections with DOT system.					
6-4 Develop/implement program to control other sources of pollutants to the MS4	Completed	<ul style="list-style-type: none"> Town has implemented Pesticide/Fertilizer Application Policy. Town has implemented Standard Operating Procedures for Snow Management 	Track efforts in controlling the contribution of pollutants to our MS4 in the Annual Report.	Public Works/Director	Not specified		The dog park and the paved linear trail have pet waste disposal signs and trash receptacles that regularly get emptied.
6-5 Evaluate additional measures for discharges to impaired waters*	Started	Outfalls identified	To develop, fund, prioritize, implement a retrofit or source management program to address problems.	Public Works/Director	Not specified		<u>Impaired waterbodies:</u> Patton Brook (ID# CT5200-02_01)- "Other pollutants of concern" Quinnipiac River (ID# CT5200-00_04)- Bacteria and "Other pollutants of concern" Quinnipiac River (ID# CT5200-00_05)- "Other pollutant of concern" Quinnipiac River (ID# CT5200-00_06)- Bacteria and "Other pollutants of concern" Misery Brook (ID# CT 5203-00_01)- Bacteria. High potential to contributing bacteria will be reviewed for dog park, parks with open waters and sites with failing septic systems.
6-6 Track projects that disconnect DCIA	In Progress		Look into more grant opportunities with Save the Sound for rain garden projects	Public Works/Director	Jul 1, 2017	On-going	

			that would disconnect roof drains from the drainage system.			
6-7 Implement infrastructure repair/rehab program	Not Started	No Activities during current reporting period.	To repair and rehabilitate its infrastructure in a timely manner to reduce or eliminate the discharge of pollutants.	Public Works/Director	Jul 1, 2021	
6-8 Develop/implement plan to identify/prioritize retrofit projects	Started	Review opportunities for redevelopment projects.	To develop a retrofit project plan.	Public Works/Director	Jul 1, 2020	
6-9 Implement retrofit projects to disconnect 2% of DCIA	Not started	Reviewing credit for previous approved projects.		Public Works/Director	Jul 1, 2022	
6-10 Develop/implement street sweeping program	Complete	<ul style="list-style-type: none"> All streets and Town-maintained parking lots were cleaned and swept in the spring following the winter maintenance activities. Public Building Parking Lots and Municipal Parking Lots are included in this program. School Parking Lots are done by a private contractor. Bid out by the Board of Education every winter. 	Continue Annual street sweeping program to mitigate sediment and debris on Town roads and properties.	Public Works/Director	Jul 1, 2017	Ongoing throughout General Permit.

6-11 Develop/implement catch basin cleaning program	Complete	The Town inspected 390 catch basins and cleaned 238 catch basins.	Establish a schedule to ensure that no catch basin becomes more than 50% full.	Public Works/Director	Jul 1, 2020	Ongoing throughout the General Permit.
6-12 Develop/implement snow management practices	Complete	<ul style="list-style-type: none"> Road salt is used to treat Town Roads rather than a sand mixture. To mitigate wetland impact, snow banks/piles were transported to Bulky Waste Site. 	Implement additional snow management practices to mitigate the effect on water quality.	Public Works/Director	Jul 1, 2018	

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

Additional maintenance and reduce pesticide application rates on Town owned MS4 properties. Continue to research MS4 interconnection coordination with neighboring Towns and the State. Continue tracking projects that disconnect DCIA. Continue Street Sweeping and Catch Basin Cleaning Programs.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics

Employee training provided for key staff	Highway/Parks on 2/14/19 WPCP on 3/21/2019
Street sweeping	
Curb miles swept	414.2 miles
Volume (or mass) of material collected	620 Tons
Catch basin cleaning	
Total catch basins in priority areas	5,667
Total catch basins in MS4	6,853
Catch basins inspected	390
Catch basins cleaned	238
Volume (or mass) of material removed from all catch basins	138 Tons
Volume removed from catch basins to impaired waters (if known)	Unknown

Snow management

Type(s) of deicing material used	Rock salt & Magnesium Chloride Treated Rock Salt
Total amount of each deicing material applied	965 Tons of Rock Salt 5662 Tons of Magnesium Chloride Treated Rock Salt
Type(s) of deicing equipment used	Dump Trucks with automated spreaders
Lane-miles treated	410 miles
Snow disposal location	Town of Southington Transfer Station
Staff training provided on application methods & equipment	Yes, ongoing throughout fall and winter
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	Will review baseline application rates
Reduction in turf area (since start of permit)	Unknown
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	Unknown

6.4 Catch basin cleaning program

Provide any updates or modifications to your catch basin cleaning program

The Town of Southington Department of Public Works personnel performed visual inspections of catch basins throughout Town to determine which areas were most in need of cleaning. These observations in conjunction with anticipated road projects provide direction on which quadrant of the Town will be cleaned in a given year. The remaining quadrants of Town will be targeted in subsequent years.

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.]

N/A

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.]

N/A

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.]

N/A

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.

During the 2018 monitoring year, The Town performed wet weather screening on 34 outfalls. 29 of these outfalls were noted discharging during two sampling events. At the time of sampling, Total Coliform and E.Coli were detected at 8 outfalls. The result from these 8 outfalls revealed concentrations over >24200 col/100mL for Total Coliform. E.Coli concentrations ranged from 211 to >24200 col/100mL for these 8 locations. We anticipated that 7 of these outfalls will require additional investigation. Results for turbidity discharging from the outfalls sampled ranged from 0.25 NTU to 54.7 NTU. Two of these outfalls should be investigated based on high levels of turbidity at the outfall compared to upstream samples collected.

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)				Name of Laboratory (if used)	Follow-up required?
		Turbidity at Outfall (NTU)	Turbidity Upstream (NTU)	Total Coliforms col/100mL	E. Coli col/100mL		
OF-110-5	9/25/2018	6.42	2.17			n/a	NO
OF-110-6	9/25/2018	6.8	2.21			n/a	NO
OF-137-13	12/28/2018	9.9	1.19			n/a	YES
OF-170-1	9/25/2018	7.02	17.6			n/a	NO
OF-170-2	9/25/2018	6.94	16.68			n/a	NO
OF-220-3	9/25/2018	2.59	0.73	>24200	1440	Phoenix	YES
OF-220-4	12/28/2018	0.25	2.72			n/a	NO
OF-220-5	12/28/2018	1.1	2.8			n/a	NO
OF-250-7	9/25/2018	8.18	8.95			n/a	NO
OF-273-4	9/25/2018	1.07	1.81	>24200	3970	Phoenix	YES
OF-273-6	9/25/2018	1.46	1.44	>24200	211	Phoenix	YES
OF-302-2	12/28/2018	1.34	9.4			n/a	NO
OF-307-2	9/25/2018	1.63	2.61	>24200	457	Phoenix	YES

OF-307-3	9/25/2018	6.76	2.72	>24200	2610	Phoenix	YES
OF-312-1	9/25/2018	1.64	5.17			n/a	NO
OF-355-1	9/25/2018	2.84	12.67			n/a	NO
OF-362-1	12/28/2018	0.76	9.2			n/a	NO
OF-373-1	9/25/2018	3.99	3.23			n/a	NO
OF-373-2	12/28/2018	0.75	9.2			n/a	NO
OF-394-1	9/25/2018	3.38	1.4	>24200	2280	Phoenix	YES
OF-404-13A	9/25/2018	1.63	11.2	>24200	404	Phoenix	YES
OF-406-2	9/25/2018	51.1	53.8			n/a	NO
OF-429-6	9/25/2018	16.6	12.27			n/a	NO
OF-432-2	12/28/2018	0.34	9.45			n/a	NO
OF-432-4	12/28/2018	54.7	9.45			n/a	YES
OF-44-1	9/25/2018	2.73	2.32	>24200	>24200	Phoenix	YES
OF-63-6	9/25/2018	5.78	4.54			n/a	NO
OF-76-1	12/28/2018	0.94	2.22			n/a	NO
OF-76-2	12/28/2018	1.11	2.22			n/a	NO
OF-8-1	9/25/2018	3.26	3.12			n/a	NO

2.2 Credit for screening data collected under 2004 permit

If any outfalls to impaired waters were sampled under the 2004 MS4 permit, that data can count towards the monitoring requirements under the modified 2017 MS4 permit. Complete the table below to record sampling data for any outfalls to impaired waters under the 2004 MS4 permit.

Outfall	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required?
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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
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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, 2020.

Outfall	Sample Date	Parameter(s)	Results	Name of Laboratory (if used)
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Part III: Additional IDDE Program Data [This section required beginning with 2018 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
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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.

[illegible]

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
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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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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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3.3 Wet weather investigation outfall sampling data

Outfall ID	Sample date	Ammonia	Chlorine	Surfactants
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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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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

Print name:

Mark J. Sciota

Signature / Date:

 4/3/19

Document Prepared by

Print name:

James A. Grappone, P.E.

Signature / Date:

 4/3/19