

2019 Annual Report – MS4 General Permit

Town of Somers

Somers, Connecticut

February 2020



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MS4 General Permit
Town of Somers 2019 Annual Report
Existing MS4 Permittee
Permit Number GSM 000103
January 1, 2019 – December 31, 2019

This report documents The Town of Somers' efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2019 to December 31, 2019.

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 Provide Stormwater Information on Town Website	Complete	See table below for details.	Update and maintain Town website to include educational materials	Public Works	Jul 1, 2018	Jan 31, 2018	
1-2 Address education/outreach for pollutants of concern*	Complete/ Ongoing	A fact sheet is now distributed with every new dog license issued.	Educate Dog Owners about Picking Up Dog Waste by distributing a fact sheet with every new dog license issued	Public Works, Town Clerk's Office	Ongoing	Ongoing	A link to "Clean Waters Starting in Your Home and Yard: Animal Waste and Water Quality" remains available through the Town's stormwater website.
1-3 Install and Maintain "No Dumping" Signs	Complete/ Ongoing	Three new "No Dumping" signs were installed on Durkee Road, which is in the watershed of an impaired water body (Gillettes Brook).	Make and install signs at stream or lake access points	Public Works	Not specific	Ongoing	Reason for addition: To discourage illicit discharges to the MS4.

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
1-4 Annual Update to Board of Selectmen	Ongoing	The Director of Public Works provided a verbal update to the Board of Selectmen in April 2018.	Provide informational update to Board of Selectmen annually	Public Works	Not specific	Ongoing	Reason for addition: Keeping the Board of Selectmen informed of efforts towards MS4 Permit compliance helps to build understanding of and financial support for continued progress.

Extra space for describing above BMP activities, if needed:

BMP	
1-1 Provide Stormwater Information on Town Website (Implement public education and outreach, including for pollutants of concern)	<p>Links to the following educational materials remained available through the Town's stormwater website:</p> <ul style="list-style-type: none"> • "Clean Waters Starting in Your Home and Yard: Animal Waste and Water Quality" • "How to Care for Your Septic System" • "Ground Water and Drinking Water: Basic Information about Your Drinking Water" • "Introduction to Integrated Pest Management" • "Managing Your Household Chemicals" • "EPA Stormwater Information: National Pollutant Discharge Elimination System (NPDES)" • "EPA's Soak Up the Rain" • "CTDEEP: Stormwater and Water Quality" • "CT NEMO Program" <p>Additional pamphlets and fact sheets were also available, including:</p> <ul style="list-style-type: none"> • "Lawn Care the Environmentally-Friendly Way" • "Conservation Landscaping for Water Quality"

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

- Reach out to other partners, particularly in the schools, to identify what other partners or organizations are doing to implement additional education activities related to stormwater.
- Continue making updates on MS4 progress and stormwater management to community groups, including Open Space and Trails Committee, Cub Scouts, and other groups.
- Continue to host an intern to work on mapping the Town's outfalls and foster connectivity between the MS4 program and the Town schools.

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.
<p>Links to the following educational materials continued to be made available on the Town's stormwater website:</p> <ul style="list-style-type: none"> • "Clean Waters Starting in Your Home and Yard: Animal Waste and Water Quality" • "How to Care for Your Septic System" • "Ground Water and Drinking Water: Basic Information about Your Drinking Water" • "Introduction to Integrated Pest Management" • "Managing Your Household Chemicals" • "EPA Stormwater Information: National Pollutant Discharge Elimination System (NPDES)" • "EPA's Soak Up the Rain" • "CTDEEP: Stormwater and Water Quality" • "CT NEMO Program" • "Lawn Care the Environmentally-Friendly Way" • "Conservation Landscaping for Water Quality" 	All town residents	<ul style="list-style-type: none"> • Pet waste, waterfowl • Septic system maintenance • Drinking water regulations • Principles of IPM • Household chemicals • NPDES regulations • Green infrastructure for stormwater • Basic stormwater and water quality information • CT NEMO program • Lawn maintenance 	Bacteria	Public Works
An update was made to the Open Space and Trails Committee	Open Space and Trails Committee	<ul style="list-style-type: none"> • General MS4 update 		Public Works
A presentation was made to Cub Scouts	Cub Scouts members	<ul style="list-style-type: none"> • Solid Waste 		Public Works
Household Hazardous Waste with Paint Care Handout April 6 th , May 4 th , June 1 st , August 24 th , September 28 th , October 19 th , and November 2 nd	All town residents	<ul style="list-style-type: none"> • Recycling of Hazardous Waste 		Public Works

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

2.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
2-1 Comply with public notice requirements for the Stormwater Management Plan	Complete	Draft Stormwater Management Plan was made available electronically on the Town website and through hard copy in the Town offices. Notice of availability was published on the Town website.	Make draft Stormwater Management Plan available electronically on the Town website and paper copies available in Town offices. Publish notice of availability on website or local newspaper.	Public Works, Land Use	Apr 3, 2017	Apr 3, 2017	No comments were received on the draft Stormwater Management Plan. Three copies of the plan were taken during the reporting period, but no comments were received.
	Complete	The final Stormwater Management Plan was made available on April 4, 2017 on the Town website, as well as in hard copy at the Town Clerks Office, the Senior Center, and the Library.	Make final Stormwater Management Plan available electronically on the Town website and paper copies available in Town Hall and library.		Jul 1, 2017	Jul 1, 2017	
2-2 Comply with public notice requirements for Annual Reports	Complete	Notice of annual report posted to Town stormwater website on January 30, 2019. Draft annual report posted to Town website and made available in Town Hall and library from February 15, 2019 to March 18, 2019.	Make draft Annual Report available electronically on the Town website and paper copies available in Town Hall and library. Publish notice of availability on website or local newspaper.	Public Works, Land Use	Feb 15, 2020	Anticipate completing by the Feb 15, 2020 deadline.	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
2-2 Comply with public notice requirements for Annual Reports (Continued)	Ongoing	The Town has prepared the 2019 Annual Report and will submit it to DEEP, as well as post it on the town website by the April 1, 2020 deadline.	Submit Annual Report to DEEP and make final available electronically on the town website.	Public Works, Land Use	Apr 1, 2020	Anticipate completing by the Apr 1, 2020 deadline.	
2-3 Stormwater Committee Meetings	Complete	Stormwater Committee consists of Todd Rolland, Director of Public Works, and Jeffrey Bord, Town Engineer.	Form a Stormwater Committee	Stormwater Coordinator (Public Works Director or designee)	Not specific	2017	Stormwater Committee is an informal group of town employees with responsibilities related to stormwater
	Ongoing	The stormwater committee holds regular informal meetings, with four meetings held during the reporting period.	Hold annual meetings of the Stormwater Committee.			Ongoing annually	
2-4 Sponsor Community Participation Events	Ongoing	Household Hazardous Waste Outreach Days were sponsored in Manchester on 4/6/19, 5/4/19, 6/1/19, 8/24/19, 9/28/19, 10/19/19, and 11/2/19. Fall Outreach Collection was conducted at the Somers High School on 10/19/19.	Hold/sponsor two community participation events per year.		Not specific	Ongoing annually	

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

- The stormwater committee will continue to meet regularly. The 2019 Annual Report will be submitted to DEEP by April 1, 2020. Notice of the 2019 Annual Report has been posted prior to the January 31, 2020 deadline and the draft 2019 Annual Report will be made available on the Town website.
- The Town will continue to sponsor community participation events, including Household Hazardous Waste Outreach Days.
- There is an annual clean-up planned by the Open Space and Trails Committee.

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan announced to public	yes	Final report was announced April 4, 2017	<ul style="list-style-type: none"> • www.somersct.gov/town-departments/public-works-department/stormwater/ • Hard copies available in Town Clerks Office, Senior Center, and Library
Availability of Annual Report announced to public	yes	Draft report announced January 27, 2020	<ul style="list-style-type: none"> • https://www.somersct.gov/ • https://www.somersct.gov/2019-storm-water-annual-report/

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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	Complete		Prepare written IDDE Plan	Public Works, Land Use	Jul 1, 2018	September 1, 2018	
3-2 Storm System Mapping and Database	In progress	Town continues to update their existing storm system mapping, which is approximately 80% complete.	Update GIS MS4 mapping to include all stormwater outfalls in the municipality.	Public Works, Land Use	Jul 1, 2019	Anticipate completing by Dec 31, 2020	
	In Progress	Town has begun to develop detailed information about their stormwater infrastructure, which is approximately 80% complete.	Develop a list (database or spreadsheet) including required elements listed on page 24 of 50 of the General Permit for all stormwater outfalls in municipality.			Anticipate completing by Dec 31, 2020.	
	In Progress	Town continues to update their existing storm system mapping, which is approximately 80% complete.	Update GIS storm system mapping in priority areas to include required elements listed on pages 3&4 in Appendix B of the General Permit including catchment delineations.			Jul 1, 2020	Anticipate completing by Dec 31, 2020.

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3-3 Citizen Reporting	Complete	The Town handles citizen reporting through its Citizen Action Line, available on the Town website.	Maintain Citizen Action Line and provide notice of the hotline on Town website.	Public Works, Land Use	Jul 1, 2017	Jul 1, 2017	
3-4 Develop Illicit Discharge Ordinance	Complete	The Town contracted with a consultant to develop their IDDE Ordinance. The ordinance was reviewed by Town staff, went to a public hearing on March 7, 2019, and was adopted 15 days later.	Develop ordinance	Public Works, Land Use Legal, BOS	Jul 1, 2018	Mar 22, 2019	
3-5 Develop record keeping system for IDDE tracking	Complete	Somers will keep a record of illicit discharge abatement activities including location (including latitude and longitude or address), description, date(s) of inspection, sampling data (if applicable), action(s) taken, date of removal or repair and responsible party.	Develop record-keeping for IDDE abatement activities	Public Works, Land Use	Jul 1, 2017	Dec 31, 2017	
3-6 Address IDDE in areas with pollutants of concern	Not started				Not specified	Anticipated completion by the end of the permit period.	
3-7 Conduct SSO Inventory	Complete	Completed inventory. No SSOs resulting in discharge to the MS4 were reported during the reporting period.	No SSOs resulting in discharge to the MS4 are known to have occurred in the 5 years prior to the effective date of the permit. Maintain information and respond to future SSOs.	Public Works, Land Use	Jul 1, 2018	Dec 2017	Reason for addition: Part of the IDDE Program.

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3-8 Assess and Prepare Priority Ranking of Catchments	Not started		Classify each catchment within priority areas into an excluded, problem, high priority, or low priority catchment.	Public Works, Land Use	Jul 1, 2019 (initial)	Anticipate completing by Dec 31, 2020.	Reason for addition: Part of the IDDE Program.
3-8 Assess and Prepare Priority Ranking of Catchments (Continued)	Not started		Rank catchments within each category (except excluded catchments) based on screening factors found on page 6 & 7 in Appendix B of the General Permit.	Public Works, Land Use	Jul 1, 2019 (initial)	Anticipate completing initial classification and ranking by Dec 31, 2020.	Reason for addition: Part of the IDDE Program.
3-9 Conduct Dry Weather Outfall Screening	Not started		Conduct dry weather screening and sampling (where flowing) of every MS4 outfall and interconnection (except for excluded and Problem Catchments).	Public Works, Land Use	Jul 1, 2019	Anticipate completing by Dec 31, 2020.	Reason for addition: Part of the IDDE Program.
3-10 Conduct Catchment Investigations and Remove Illicit Discharges	Not started		Evaluate catchments for System Vulnerability Factors and begin catchment investigations.	Public Works, Land Use	Jul 1, 2018	Anticipate completing by Dec 31, 2020.	Reason for addition: Part of the IDDE Program.
	Not started		Where System Vulnerability Factors are present, conduct manhole inspections. Isolate and verify sources. Remove identified illicit discharges and conduct confirmatory outfall screening.	Public Works	Jul 1, 2020	Anticipate completing by Jul 1, 2021.	Reason for addition: Part of the IDDE Program.

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

- Maintain a master IDDE tracking spreadsheet and ensure all employees involved in IDDE program understand the logging process.
- Continue to implement the written IDDE Plan.
- Continue work to update MS4 outfall mapping and detailed mapping.
- Begin outfall screenings and catchment rankings.

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

Date of Report	Location / suspected source	Response taken
None reported		

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)
None reported						

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 are tracked through the Citizen Action Line. Reports are stored in the cloud and sent to the Director of Public Works. DPW investigates any reports received and if illicit discharges are found, DPW works with Land Use, the Town Sanitarian, and Code Enforcement to eliminate the discharge.

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
None reported		

3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	243 total; 167 in priority area
Estimated or actual number of interconnections	17
Outfall mapping complete	80%
Interconnection mapping complete	80%
System-wide mapping complete (detailed MS4 infrastructure)	80%
Outfall assessment and priority ranking	0%
Dry weather screening of all High and Low priority outfalls complete	0
Catchment investigations complete	0
Estimated percentage of MS4 catchment area investigated	0%

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

Topic-specific trainings are provided annually. In 2019, training included:

- Street sweeper operation training, completed March 2019.
- General IDDE training that covered what to look for when on patrol and checking waterways and basins for illicit discharges, completed April 2019.
- Snow and ice management and reducing salt use, completed November 2019.
- Salt spreader calibration training, completed November 2019.

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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 Review and Update Land Use Regulations	In progress	The Town contracted with a consultant to review existing land use regulations and has received recommendations for revisions. Regulations are currently being updated.	Review and update, as necessary, existing land use regulations and implementation policies for compliance with the MS4 General Permit construction site stormwater runoff control requirements.	Planning, Legal	Jul 1, 2019	Anticipate completing by Jul 1, 2020.	The Town will be continuing to evaluate the recommendations from their consultant and move forward with the revision process in the coming year. There is minimal construction completed in the Town.
	In progress	The Town contracted with a consultant to review existing land use regulations and has received recommendations for revisions.	Amend existing Zoning Regulations to require submittal of a waste management plan for construction projects with land disturbance of 1 acre or more.			Anticipate completing by Jul 1, 2020.	
4-2 Review Site Plans for Stormwater Quality	Ongoing	Inland wetlands personnel completed site plan reviews, as necessary, for projects subject to the land use regulations	Complete site plan reviews for all projects subject to the land use regulations.	Planning, Inland Wetlands Agency	Ongoing	Ongoing	
4-3 Conduct Site Inspections	Ongoing	Inland wetlands personnel conducted site inspections as necessary	Conduct inspections and enforcement to assess and ensure the adequacy of the installation, maintenance, operation, and repair of construction and post-construction control measures.	Planning	Ongoing	Ongoing	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
4-4 Interdepartmental Coordination	Ongoing	Land Use and Inland Wetlands coordinated site plan review and approval.	Continue to implement existing interdepartmental coordination procedures.	Land Use Agencies and Departments	Ongoing	Ongoing	
4-5 Consideration of Public Input on Site Development Projects	Ongoing		For projects not presented at public meeting, make a list of building permits available at Town Hall that the public can review and comment on.	Planning, Zoning Official	Ongoing	Ongoing	
	Complete		Post notices of Somers' 'hotline' (Citizen Request Center) for stormwater related comments on the municipal stormwater website.			Completed in early 2018.	
4-6 Developer Notification of DEEP Permit Requirements	In Progress	The Town is in the process of drafting a handout.	Develop handout to provide to permit Applicants.	Planning	Ongoing	Anticipate completing in 2020.	
	Ongoing	Somers is continuing to inform developers/contractors of their potential obligation to register under the DEEP construction general permit and to provide copies of the SWPPP upon request.	Continue to inform developers/contractors of their potential obligation to register under the DEEP construction general permit and to provide a copy of the Storm Water Pollution Control Plan to Somers upon request.			Ongoing	

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

- Continue to review site plans and conduct construction site inspections.
- Develop a handout to be given to developers/contractors when they apply for a permit notifying them of the requirements of the DEEP Construction Stormwater General Permit.
- Continue the process of reviewing and revising existing regulations to incorporate recommended updates.

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 Update Land Use Regulations	In progress	The Town contracted with a consultant to review existing land use regulations and has received recommendations for revisions.	Review and update, as necessary, existing land use regulations and implementation policies for compliance with the General Permit post-construction stormwater management requirements.	Land Use, Public Works, Legal Counsel	Jul 1, 2021	Anticipate completing by the deadline of Jul 1, 2021.	The Town will be continuing to evaluate the recommendations from their consultant and move forward with the revision process in the coming year.
5-2 Enforce LID/Runoff Reduction Requirements for Development and Redevelopment Projects	In progress	The Town contracted with a consultant to review existing land use regulations and has received recommendations for revisions.	Review and update, as necessary, current regulations to require the use of and identify, reduce, or eliminate existing regulatory barriers to implementation of LID and runoff reduction practices.	Land Use, Public Works, Legal Counsel	Ongoing beginning Jul 1, 2021	Anticipate completing by the deadline of Jul 1, 2021.	
	Ongoing	Plans are reviewed, as necessary, to ensure compliance with any existing regulations.	Complete plan reviews and ensure compliance with land use regulations.	Planning, Inland Wetlands Agency	Jul 1, 2019	Ongoing	
5-3 Identify retention and detention ponds in priority areas	In Progress	Town continues to update their existing storm system mapping, which is approximately 80% complete. This mapping includes the locations of stormwater basins and treatment structures.	Identify stormwater basins and treatment systems in priority areas and include them in GIS mapping.		Jul 1, 2019	Anticipate completing by Dec 31, 2020.	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
5-4 Maintenance Plan for Stormwater Basins and Treatment Structures	In Progress	The only Town-owned treatment structure is detention basins. The Town is in the process of preparing a written document of the routine maintenance that takes place.	Develop a long-term maintenance plan for retention/ detention basins and stormwater treatment structures.	Planning, Public Works	Ongoing beginning Jul 1, 2019	Anticipated completion by Jul 1, 2020.	
	In Progress	Routine maintenance of the Town's detention basins are completed every 5 years due to the low activity of the basins.	Implement maintenance plan including annual inspection of retention/detention basins and stormwater treatment structures and removal of accumulated sediment and pollutants.			Anticipated completion by Jul 1, 2020.	
5-5 Estimate DCIA	Complete		Calculate the Directly Connected Impervious Area (DCIA) of outfall catchment areas using guidance provided by DEEP and UConn CLEAR.	Planning, Public Works	Jul 1, 2020	Nov 2018	
	Not started		Revise DCIA estimate as development, redevelopment, or retrofit projects effectively add or remove DCIA.		Annually beginning Jul 1, 2021	Anticipate completing annually beginning Jul 1, 2021.	
5-6 Address Post-Construction Issues in Areas with Pollutants of Concern	Not started		Address erosion and sediment problems noted during inspections conducted under Item 5-3 through retrofits.	Planning, Public Works	Not specified	Anticipated to follow completion of 5-3 above.	

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

- Continue the process of reviewing and updating existing land use regulations to incorporate recommendations.
- Continue tracking and revising DCIA estimates to account for development and redevelopment projects.

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	268 acres
DCIA disconnected (redevelopment plus retrofits)	0 acres this year / 3.25 acres total (this includes 0.75 acres of buildings removed at Camp Aya-Po after the Town's purchase of the property, and 2.5 acres of buildings removed at the former Somersville Mill site.)
Retrofits completed	0
DCIA disconnected	0 % this year / 1.2 % total since 2012
Estimated cost of retrofits	\$0
Detention or retention ponds identified	0 this year / 0 total

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

DCIA was estimated from high-resolution impervious cover and land use/cover data available from UConn NEMO and empirical equations (Sutherland Equations) relating DCIA and Total Impervious Area (TIA). The DCIA estimates were developed at the CTDEEP Local Basin scale.

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 Employee Training	Ongoing	Multiple stormwater –related trainings were offered to staff. <ul style="list-style-type: none"> • Salt spreader calibration training <ul style="list-style-type: none"> ○ November 2019 ○ 10 DPW staff attended • Snow and ice conference and trainings on reducing salt use <ul style="list-style-type: none"> ○ November 2019 	Implement a training program for Town employees, building on the Town's current program.	Public Works	Ongoing	Ongoing	
6-2 Implement MS4 Property and Operations Maintenance	Complete	Fertilizer use was reduced by 25% in 2018 and no herbicides were used.	Implement turf/fertilizer management BMPs for parks and open space.	Public Works, Board of Education	Ongoing beginning Jul 1, 2018	Dec 31, 2018	
	Complete	Five pet waste stations were installed in parks and public areas, along with seven signs encouraging pet owners to pick up pet wastes.	Implement pet waste management program in parks and public areas.	Public Works		Dec 31, 2018	
	Complete	Coyote silhouettes were installed around the Town's parks to discourage waterfowl.	Implement waterfowl management BMPs in targeted areas (as applicable).	Public Works, Land Use	Dec 31, 2018		
	Not started		Evaluate municipal buildings and facilities for spill prevention and pollution prevention practices and implement additional BMPs as necessary.	Public Works		Anticipate completion by Dec 31, 2020.	SPCC Plans and SWPPPs are in place for DPW facilities, parks, and the Somersville Water Pollution Control Facility. More formal evaluations are needed, especially at the schools.

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-2 Implement MS4 Property and Operations Maintenance (Continued)	Not started		Evaluate and modify, as necessary, municipal vehicle and equipment parking, fueling, washing, and maintenance practices.	Public Works	Ongoing beginning Jul 1, 2018	Anticipate completion by Dec 31, 2020.	Vehicle maintenance is all done at the Public Works facility and Fire Station, which both have oil/water separators for wash water. Fueling practices will be evaluated.
	Ongoing	Residents self-haul leaves to the recycling center.	Implement leaf management procedures (Recycling Center drop-off).	Public Works		Ongoing	
6-3 Coordinate with Interconnected MS4s	Not started		Coordinate with neighboring municipalities, Department of Corrections, and CT DOT regarding MS4 program activities associated with the interconnected MS4s.		Not specified	Anticipated completion by the end of the permit period.	CT DOT has been identified as the only interconnected MS4. The Town will coordinate with CT DOT.
6-4 Control Contribution of Pollutants from Unpermitted Facilities	Ongoing	No unpermitted facilities identified to date.	Identify unpermitted facilities. Control through IDDE program, water quality monitoring, the Town's ordinances related to illicit discharge, and targeted education and outreach to facilities that are not covered under a DEEP stormwater permit (see BMP 1-1).		Not specified	Ongoing	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-5 Evaluate additional measures for discharges to impaired waters*	Complete/ Ongoing	Three new "No Dumping" signs were installed on Durkee Road, which is in the watershed of an impaired water body (Gillette Brook).	Install and maintain "No Dumping" signs at stream or lake access points	Public Works	Not specified	Ongoing	
6-6 Track projects that disconnect DCIA	Ongoing	None during the reporting period. Total DCIA that has been disconnected exceeds the 1% for Year 4.	Annually track total acreage of DCIA that is disconnected as a result of redevelopment or retrofits.	Public Works, Planning	Ongoing	Ongoing	
6-7 Infrastructure Repair, Rehabilitation, and Retrofit	Ongoing	Catch basin replacements were conducted as needed during the reporting period.	Repair, rehabilitate, or retrofit MS4 infrastructure (e.g., conveyances, structures, outfalls) as needed in a timely manner.	Public Works	Jul 1, 2021	Ongoing	
6-8 Retrofit Program: Develop/implement plan to identify/prioritize retrofit projects	Not started		Develop retrofit plan and list of priority sites to reduce Directly Connected Impervious Area (DCIA)	Public Works, Land Use	Jul 1, 2020	Anticipated completing by July 1, 2021.	
6-9 Retrofit Program: Implement retrofit projects to disconnect 2% of DCIA	Not started		Disconnect 1% per year beginning in Year 4		Jul 1, 2022	Anticipated completing by the deadline of July 1, 2022.	
6-10 Pavement Sweeping	Ongoing	90 miles of streets were swept from May 2019 to June 2019. Approximately 400 cubic yards of material was removed and disposed of.	Sweep all municipally-owned or operated streets and parking lots each spring and fall.	Public Works	Ongoing beginning Jul 1, 2017	Ongoing	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-10 Pavement Sweeping (Continued)	Ongoing	No new or redeveloped municipal parking lot projects occurred during the reporting period.	Evaluate runoff reduction measures such as permeable pavement or other measures to promote sheet flow of stormwater for all new and redeveloped municipal parking lots.	Public Works	Ongoing beginning Jul 1, 2017	Ongoing	
6-11 Catch Basin Cleaning	Complete	All catch basins have been cleaned and inspected. Moving forward, the Town will clean and inspect one third of the catch basins each year.	Inspect and clean 100% of catch basins.	Public Works	Ongoing beginning Jul 1, 2020	Aug 2019	
	Complete		Develop a plan for optimizing catch basin cleaning (i.e., reduced frequency in certain areas) based on inspection findings, such that no catch basin is more than 50% full.		Ongoing beginning Apr 1, 2018	Apr 1, 2018	
6-12 Snow Management Practices	Ongoing	Type and amount of deicing material was tracked, along with lane-miles treated, equipment used, and staff training information.	Implement practices for deicing material management and snow and ice control.	Public Works	Ongoing beginning Jul 1, 2018	Ongoing	

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

- Continue to document pertinent maintenance/cleaning operations.
- Maintain a list of complaints received regarding road and highway maintenance concerns.
- Continue to conduct employee training.
- Continue to inspect the maintenance garage monthly and maintain records of each inspection.
- Coordinate efforts with local schools.
- Implement digital work order system.
- Annually clean one third of catch basins moving forward.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	Yes, March & November 2019
Street sweeping	
Curb miles swept	90
Volume (or mass) of material collected	Approx. 400 cubic yards
Catch basin cleaning	
Total catch basins in priority areas	1,364
Total catch basins in MS4	1,821
Catch basins inspected	1,821
Catch basins cleaned	1,821
Volume (or mass) of material removed from all catch basins	400 cubic yards
Volume removed from catch basins to impaired waters (if known)	Unknown
Snow management	
Type(s) of deicing material used	"ClearLane" Treated road salt
Total amount of each deicing material applied	1,243 tons
Type(s) of deicing equipment used	Truck mounted combination dump/sander
Lane-miles treated	180 miles
Snow disposal location	Snow is left on site
Staff training provided on application methods & equipment	Yes, March & November 2019
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	25 %
Reduction in turf area (since start of permit)	0 acres - The High School field within the track will be replaced with artificial turf in 2020.
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	\$3,950

6.4 Catch basin cleaning program

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

The Town has cleaned all of its 1,645 catch basins, and will continue to clean approximately 1/3 (548) each year. During cleaning, an outside vendor performs the cleaning while a DPW staff member inspects the basin, logs the condition of the basin and whether any repairs are needed, and estimates the amount of material removed during cleaning. Now that all basins have been cleaned, the Town will produce a list of basins that will require more frequent future cleaning and the basins that need less frequent cleaning. That information will be used to inform an optimal future schedule for catch basin inspection and cleaning.

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.

n/a

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

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.

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.

Two outfalls to the Town's impaired waters were screened for bacteria under the 2004 permit; those data are included below in section 2.2. One of the two outfalls had high levels of E. coli and will require follow-up investigation. No additional screening of outfalls to impaired waterbodies has been conducted to date under the 2017 permit. All waterbodies in the state are subject to the Northeast Regional Mercury TMDL, however no specific monitoring or sampling is required in association with this TMDL.

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?
Not yet started					

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?
SW-R1 Scantic River at 54 Parsons Road	2/24/16	E.coli	1080 MPN/100 mls	Phoenix	Yes
SW-C2 Scantic River at 116 Main Street	2/24/16	E. coli	247 MPN/100 mls	Phoenix	No

*Follow-up investigation required (last column) if the following pollutant thresholds are exceeded:

Pollutant of concern	Pollutant threshold
Nitrogen	Total N > 2.5 mg/l
Phosphorus	Total P > 0.3 mg/l
Bacteria (fresh waterbody)	<ul style="list-style-type: none"> E. coli > 235 col/100ml for swimming areas or 410 col/100ml for all others Total Coliform > 500 col/100ml
Bacteria (salt waterbody)	<ul style="list-style-type: none"> Fecal Coliform > 31 col/100ml for Class SA and > 260 col/100ml for Class SB Enterococci > 104 col/100ml for swimming areas or 500 col/100 for all others
Other pollutants of concern	Sample turbidity is 5 NTU > in-stream sample

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
Not yet started		

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)
Not yet started				

DRAFT

Part III: Additional IDDE Program Data

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

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

1. Catchment ID (DEEP Basin ID)	2. Category	3. Rank
Not yet completed		

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
Not yet started										

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
Not yet started									

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
Not yet started.		

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
Not yet started					

3.3 Wet weather investigation outfall sampling data

Outfall ID	Sample date	Ammonia	Chlorine	Surfactants
Not yet started				

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
N/A							

Part IV: Certification

<p>"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."</p>	
Chief Elected Official or Principal Executive Officer	Document Prepared by
Print name: C. G. Knorr, Jr., First Selectman	Print name: Rachel Schnabel, PE, Fuss & O'Neill
Signature / Date:	Signature / Date:

