

General Permit for the Discharge of Stormwater from  
Small Municipal Separate Storm Sewer Systems

## DRAFT 2021 MS4 ANNUAL REPORT

Town of Trumbull

March 18, 2022

**Tighe&Bond**  
Engineers | Environmental Specialists





General Permit for the Discharge of Stormwater from  
Small Municipal Separate Storm Sewer Systems

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# MS4 General Permit Town of Trumbull 2020 Annual Report

Existing MS4 Permittee  
Permit Number GSM 000107  
January 1, 2021 – December 31, 2021

This report documents Trumbull's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2021 to December 31, 2021.

## Part I: Summary of Minimum Control Measure Activities

### 1. Public Education and Outreach

MS4 General Permit Section 6(a)(1) / page 19, requires the Town to "implement a public education program to distribute educational materials to the permittee's community or conduct equivalent outreach activities about the sources and impacts of stormwater discharges on waterbodies and the steps that the public can take to reduce pollutants in stormwater runoff."

#### 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	Ongoing, Complete for 2021	<b>1.1. Impervious Cover Brochure:</b> 50 copies of a brochure titled "Impervious Coverage: A Homeowner's Guide to Understanding the Challenge of Impervious Cover" were developed. A copy of the brochure appears in <b>Appendix A</b> .	Develop and implement public education process to reach out to the Trumbull community, including establishing a stormwater page on the Town website to share educational materials.	Town Engineer	Pet Waste: 07/01/18 Mercury: 07/01/19 Imperv. Cover: 07/01/20 Illicit Discharges: 07/01/21	Completed: 01/15/19 Completed: 12/17/19 Completed: 07/01/21 Projected: 01/21/22	



BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
			Year 1: Bacteria and pet waste.  Year 2: Nitrogen & phosphorous  Year 3: Mercury  Year 4: Impervious coverage  Year 5: Illicit Discharges				
1.2 Address education/outreach for pollutants of concern*	Ongoing, Complete for 2021	<b>1.2. Impervious Cover Brochure:</b> 50 copies of a brochure titled "Impervious Coverage: A Homeowner's Guide to Understanding the Challenge of Impervious Cover" were placed at the Public Works front desk. A copy of the brochure appears in <b>Appendix A</b> .	Develop/procure and disseminate educational materials focused on bacteria and pet waste management.  Develop/procure and disseminate educational materials focused on mercury waste management.	Town Engineer	Pet Waste: 07/01/18  Mercury: 07/01/19  Imperv. Cover: 07/01/20	Completed: 11/15/19  Completed: 12/17/19  Completed: 07/01/21	
1.3 Establish stormwater page on Town website	Ongoing, Complete for 2021	<b>1.3 Town stormwater website.</b> The Town's Engineering website links to the 2019 and 2020 MS4 Annual report and Stormwater Management Plan:  <a href="https://www.trumbull-ct.gov/222/Engineering">https://www.trumbull-ct.gov/222/Engineering</a>	Develop and collect stormwater-specific educational materials to share with the public, pursuant to BMP 1.1 and 1.2.	Town Engineer	06/30/19	Initially completed: 07/01/17	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
			Establish stormwater page on Town website with information on potential sources of, impacts of, and solutions to stormwater pollutants. of concern.				

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

The following activities are planned for 2022:

1. Develop or procure from CTDEEP/other MS4s educational materials focused on illicit discharges, and its impacts on stormwater quality (at least one brochure, flyer, booklet, presentation, or public access advertisement).
2. Post the material from Item 1.2 to the Town stormwater website.
3. Update and Continue to maintain the Town's stormwater website.

## 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.
Impervious Coverage: A Homeowner's Guide to Understanding the Challenge of Impervious Cover	Town Residents (50 copies placed at DPW front desk)	Impervious coverage		Town Engineer
Town Website	Town Residents (number of page visitors unknown)	General housekeeping best practices		Town Engineer

## 2. Public Involvement/Participation

MS4 General Permit Section 6(a)(2) / page 21, requires the Town to “provide opportunities to engage their community to participate in the review and implementation of the permittee’s Plan.”

### 2.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
2.1 Comply with public notice requirements for the Stormwater Management Plan and Annual Report	Plan: Complete  Annual Report: Yearly, Complete for 2021	<p><b>2.1a Stormwater Management Plan Notification.</b> The Town published notice on its website regarding availability of the Stormwater Management Plan.</p> <p>No comments were received.</p> <p><b>2.1b MS4 Annual Report Notice.</b> The Town provided notice of the availability of the 2020 Annual Report on July 7, 2021. The report was posted to:</p> <p><a href="https://www.trumbull-ct.gov/DocumentCenter/View/5180/2020-MS4-Annual-Report-Draft-PDF?bidId=">https://www.trumbull-ct.gov/DocumentCenter/View/5180/2020-MS4-Annual-Report-Draft-PDF?bidId=</a></p> <p>No comments were received.</p>	<p>Publish public notice about the MS4 Plan and Annual Report by January 31. Accept public comments for 30 days following the public notice.</p> <p>Publish public notice about the MS4 Plan and Annual Report by January 31. Accept public comments for 30 days following the public notice.</p>	Town Engineer	04/01/17          01/31/21	Completed: 01/26/2017          Completed: 07/07/21	
2.2 Conduct household hazardous waste collection	Ongoing, Yearly  Complete for 2021	<b>2.2 Household Hazardous Waste Collection Day.</b> The Town of Trumbull held its annual hazardous waste collection day for residents at Indian Ledge Park on October 9, 2021. Items that were able to be collected included oil based paints and strippers paint thinner, solvents, stains and varnishes, solvent adhesives, lighter fluid, waste fuels: kerosene, gasoline engine degreaser, carburetor cleaner, brake fluid, transmission fluid, pesticides and insecticides, weed killers, moth balls, flea powder, resins and adhesives, rubber cement, airplane glue, hobby supplies, artist supplies, photo chemicals,	Conduct at least one Household Hazardous Waste Collection Day per year for the Trumbull community. Notify residents about Household Hazardous Waste Collection dates through the Town website.	Town Engineer	12/31/21	Completed: 10/09/2021	



BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
		<p>chemistry sets, furniture, floor, metal polishes, oven, toilet and drain cleaners, rug and upholstery cleaner, dry cleaning solvents, spot removers, swimming pool chemicals, fluorescent light bulbs, mercury thermometers.</p> <p><a href="http://www.trumbull-ct.gov/446/Household-Hazardous-Waste-Collection">http://www.trumbull-ct.gov/446/Household-Hazardous-Waste-Collection</a></p>					
2.3 Partner with local volunteer organizations	Ongoing, Yearly	<p><b>2.3 Partner with local volunteer organizations.</b> There are a number of volunteer organizations in Trumbull that are engaged in Town cleanups and volunteer opportunities.</p> <p>The Town's Sustainability Team sponsored a town-wide clean up event in April 2021:</p> <p><a href="https://www.trumbulltimes.com/news/article/Trumbull-group-plans-week-long-Earth-Day-16090128.php">https://www.trumbulltimes.com/news/article/Trumbull-group-plans-week-long-Earth-Day-16090128.php</a></p> <p>The Trumbull Nature and Arts Center also sponsored an Earth Day Program:</p> <p><a href="https://fairfieldcounty.kidsoutandabout.com/content/earth-day-2021-trumbull-nature-and-arts-center">https://fairfieldcounty.kidsoutandabout.com/content/earth-day-2021-trumbull-nature-and-arts-center</a></p>	Review MS4 plan and identify opportunities to engage with local organizations in implementing the plan. Contact at least one local organization and/or school to engage them in plan implementation and related programs, such as volunteer opportunities and town cleanup days. Engage organizations in plan implementation and programming.	Town Engineer	07/01/21	Completed: 04/18/21	

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

The following activities are planned for 2022:

1. Publish notice of 2021 Annual Report Posting.
2. Identify one volunteer organization for clean up assistance. Provide material/logistical support as needed and available.
3. Conduct at least one Household Hazardous Waste Collection Day.

## 2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan announced to public	Yes	01/26/2017	<a href="http://www.trumbull-ct.gov/filestorage/7112/7168/MS4_Stormwater_Management_Plan_-_2017.pdf">http://www.trumbull-ct.gov/filestorage/7112/7168/MS4_Stormwater_Management_Plan_-_2017.pdf</a>
Availability of 2020 Annual Report announced to public	Yes	07/07/2021	<a href="https://www.trumbull-ct.gov/DocumentCenter/View/5180/2020-MS4-Annual-Report-Draft-PDF?bidId=">https://www.trumbull-ct.gov/DocumentCenter/View/5180/2020-MS4-Annual-Report-Draft-PDF?bidId=</a>

### 3. Illicit Discharge Detection and Elimination

Reference: Section 6(a)(3) and MS4 General Permit, 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	<b>3.1 Develop written IDDE program.</b> The Town completed written IDDE Plan.	Develop written IDDE Program.	Town Engineer	07/01/18	Completed: 12/31/2017	
3.2 Develop list and maps of all MS4 stormwater outfalls in priority areas	Complete	<b>3.2 Develop list and mapping of stormwater outfalls.</b> The Town is in the process of mapping its stormwater infrastructure in GIS format. All known outfalls 12 inches and greater are mapped, and the known storm sewer infrastructure is mapped.	Develop and maintain a list and GIS-based map of all stormwater discharges from a pipe or conduit located within and owned/operated by the Town, and all interconnections with other MS4s.	Town Engineer	07/01/19	Completed: 07/01/2019	
3.3 Implement citizen reporting program	Complete	<b>3.3 Implement citizen reporting program.</b> The Town has developed a procedure for citizen reporting of illicit discharges using an online software package. In 2019, the Town switched from Q-Alert to Veoci.	Develop and implement procedure to track citizen complaints of illicit discharges. Update stormwater page on Town website to include reporting process guidelines and contact information. Promptly investigate reported discharges. Update IDDE program with reported illicit discharge information as needed. Update Annual Report with reported illicit discharge information as needed.	Town Engineer	07/01/17	07/01/17	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3.4 Establish legal authority to prohibit illicit discharges	In Progress	<b>3.4a Establish legal authority to prohibit illicit discharges.</b> Trumbull Ordinance 19-74 states “Stormwater and all other unpolluted drainage shall be discharged to such sewers as are specifically designated as storm sewers, or to a natural outlet approved by the Town or its authorized agent. Industrial cooling water or unpolluted process waters may be discharged, on approval of the Town, to a storm sewer or natural outlet.” Section 19-90 identifies the powers and authority of inspectors, and penalties are outlined in Section 19-91. The Town is evaluating ordinances of other municipalities to strengthen their existing policies, progress was slowed in 2020 due to the COVID-19 pandemic.	Establish legal authority in the Town to eliminate illicit discharges. Implement and enforce the ordinance.	Town Engineer	07/01/18	Projected: 07/01/21	
3.5 Develop record keeping system for IDDE tracking	Complete	<b>3.5 Develop record keeping system for IDDE tracking.</b> The Town had utilized the “Q-Alert” system, and is making a changeover to “Veoci”. Both are customer service and public outreach internet based software packages which allow residents to directly report problems. The package also functions as a database to track number of, and response times to, specific registered concerns..	Develop and implement documentation procedures for illicit discharge abatement activities. Update Annual Report with required abatement activity information pursuant to the updated MS4 permit.	Town Engineer	07/01/17	07/01/17	



BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3.6 Address IDDE in areas with pollutants of concern	In Progress	The Town will identify locations within Trumbull at risk of pollution by bacteria, phosphorus, and nitrogen as part of the written IDDE Plan.	Identify locations within Trumbull at risk of pollution by bacteria, phosphorus, and nitrogen, and explicitly prioritize these areas within the written IDDE program. Update the Annual Report with information on the prioritized areas, actions taken by the Town to address these areas, and the anticipated pollutant reduction.	Town Engineer	Not specified	Ongoing, as identified	

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

The following actions are planned for 2022:

1. Continue to utilize online citizen service request form for reporting and tracking illicit discharges.
2. Develop draft illicit discharge ordinance.

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

Date of Report	Location / suspected source	Response taken
None received		

**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)
119 White Plains Road/ Beardsley Station	05/01/2014-05/02/2014	Surface water	0.42 M.G.	Discharge of 0.42 Million Gallons of raw sewage from bypass at pump station into Pequonnock River due to sustained heavy rainfall( 4" in 26 hours).	Both pumps ran at maximum capacity during overflow. Wright Pierce Engineering doing infrastructure I + I testing. High pressure vacuum and Jet truck used to mitigate.	
119 White Plains Road/ Beardsley Station	12/09/2014-12/10/2014	Surface water	0.108 M.G.	Discharge of 0.108 Million Gallons of raw sewage from bypass at pump station into Pequonnock River due to heavy sustained rainfall (3+" in 24 hours).	Both pumps ran at maximum capacity during overflow. Wright Pierce Engineering doing infrastructure I + I testing. High pressure vacuum and jet truck used to mitigate.	
2595 Reservoir Ave/ Reservoir Ave Station	05/01/2014	Surface water	1,200 Gal.	Discharge of 1,200 Gallons of raw sewage from bypass at pump station into Pequonnock River due to heavy sustained rainfall (4" in 26 hours).	All pumps ran at maximum capacity during overflow. Wright Pierce Engineering doing I + I testing. High pressure vacuum and jet truck used to mitigate.	
119 White Plains Road/ Beardsley Pump Station	02/27/2013–02/28/2013	Surface water	Moderate	Discharge of "Moderate" volume of raw sewage from bypass at pump station into Pequonnock River due to heavy rain and significant snow melt.	Both pumps were run at maximum output during the overflow. Hired Wright Pierce Engineering to evaluate I + I. Four phases of SSES analysis. Jet rodger used to mitigate.	
119 White Plains Road/ Beardsley Pump Station	06/14/2013-06/16/2013	Surface water	1.83 M.G.	Discharge of 1 M.G.D. of raw sewage from bypass at pump station into Pequonnock River due to extremely heavy sustained rainfall.	Both pumps were run at maximum output during overflow. Wright Pierce Engineering is doing infrastructure I + I testing. High pressure vacuum and jet truck used to mitigate.	
119 White Plains Road/ Beardsley Pump Station	03/16/2017-03/17/2017	MS4 & Surface Water	87,000 -130,500 Gal.	Discharge of 100-150 G.P.M. of raw sewage through bypass at pump station and from overflowing manholes as a result of electric motor failure. Pequonnock river	3-3,500 Gal. pump trucks pumping from 12 PM to 9 PM high peak. Electric motor in for repair.	

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)
				acted as receiving water to bypass.		
6540 Main Street - Easement	02/29/2016	MS4	3,750 Gal.	Discharge of 3,750 Gal. of raw sewage resulting in overflowing manholes.	Jet rodder cleared stoppage.	
2595 Reservoir Road/ Reservoir Ave Station	05/08/2017	MS4	67,500 Gal.	Discharge of 67,500 Gal. caused by mechanical failure. Manholes overflowed as a result.	Septic truck on standby. Repaired electrical failure. Fresh water spray down.	
119 White Plains Road / Beardsley Pump Station	07/16/2019	Surface water, Pequonnock River	Undetermined	During construction, Contractor was excavating for force main to install a inline bypass so that they could continue the upgrade of the building. While digging for main line, Contractor hit thrust block and shifted line just enough to release a minor amount of sewage.	During construction filter fabric in storm catch basin already in place also dewatering ground water from trench going into filter bladder surrounded by haybales also 6" bypass pump being used bypassing into wet well Minor mount of sewer water along with ground water being directed into filter bags maintain water level	
Beardsley Pump Station	01/23/2020	Pequonnock River	50,001 to 100,000 gallons	Pipe rupture	Rupture repaired	
XXXXX						

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

The Town utilizes the "Veoci" system which is a customer service and public outreach internet based software package which allows residents to directly report problems. The package also functions as a database to track number of, and response times to, specific registered concerns. Town Engineer. is responsible for tracking this information.

### 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
No septic failures reported throughout Town	No permits issued for repairs	Various

### 3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	745
Estimated or actual number of interconnections	54
Outfall mapping complete	99%
Interconnection mapping complete	99%
System-wide mapping complete (detailed MS4 infrastructure)	99%



Outfall assessment and priority ranking	100%
Dry weather screening of all High and Low priority outfalls complete	590
Catchment investigations complete	0
Estimated percentage of MS4 catchment area investigated	83%

**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).**

Town Highway staff is trained once per year that when identifying a non-stormwater discharge, the source of the discharge shall be determined, and if found to be beyond or outside the Town's system, the owner of the property is notified. Training was provided in June 2021.

## 4. Construction Site Runoff Control

Reference: 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,  Complete for 2021	<p><b>4.1a 2002 Connecticut Sediment and Erosion Control Guidelines.</b> The Town will continue to require that developers, construction site operators, or contractors maintain consistency with the <i>2002 Guidelines for Soil Erosion and Sedimentation Control</i>, as amended.</p> <p>Article X of the Trumbull Zoning Regulations require the submission and approval of an erosion and sediment control plan whenever more than one half acre of land will be disturbed. The regulations reference the <i>Connecticut Guidelines for Soil Erosion and Sediment Control</i>, as amended.</p> <p>Article I, Section 5.3 references the Connecticut Stormwater Quality Manual</p>	<p>Continue to require developers, construction site operators, or contractors maintain consistency with the 2002 Guidelines for Soil Erosion and Sedimentation Control, as amended.</p> <p>Require consistency with the 2004 Connecticut Stormwater Quality Manual, and all stormwater discharge permits issued by CTDEEP within the municipal or institutional boundary pursuant to CGS 22a 430 and 22a-430b.</p>	Town Engineer	07/01/19	Completed: 06/30/18	
4.2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Ongoing,  Complete for 2021	<p><b>4.2 Develop Interdepartmental coordination plan.</b> The Town Fire Marshal leads a monthly meeting to discuss building permits, projects, and other upcoming projects and development</p>	Continue to follow the Interdepartmental Coordination Plan for the management of stormwater quality	Town Engineer	07/01/17	Completed: 07/01/18	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
		issues, including projects under construction. The participating departments include Engineering, Planning and Zoning, Police, Fire, Health, and Emergency Management. These meetings are then summarized and action items identified for various departments where needed. This process has fostered a cooperative spirit between the Town departments.					
4.3 Review site plans for stormwater quality concerns	Ongoing, Complete for 2021	<b>4.3 Site plan review process.</b> The Town continues to implement its existing practice of engineering comments and site inspections, and will update the site plan review process as needed to provide consistency with updated MS4 regulations. Site plan reviews incorporate consideration of stormwater management practices to prevent or minimize impacts to water quality.	The Town will review and update, if needed, the site review and inspection process by July 1, 2017, and then continue the review and inspection process throughout the duration of the permit.	Town Engineer	07/01/17	Completed: 07/01/17	
4.4 Conduct site inspections	Complete, ongoing practice	<b>4.4 Site inspections.</b> The Town continues to implement its existing practice of engineering comments and site inspections, and will update the site plan review process as needed to provide consistency with	Evaluate and update draft standard condition of approval. Inventory privately-owned retention and detention ponds, and other stormwater basins	Town Engineer	07/01/19	Completed: 06/30/18	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
		updated MS4 regulations. Site plan reviews incorporate consideration of stormwater management practices to prevent or minimize impacts to water quality.	that discharge to/receive drainage from the Town's MS4.				
4.5 Implement procedure to allow public comment on site development	Ongoing, Complete for 2021	<b>4.5 Online notification system.</b> The Town has reviewed the procedure for collecting and reviewing citizen feedback regarding proposed and ongoing land disturbance and land development activities.	The Town routes phone calls or e-mails regarding citizen complaints about land use activities to appropriate staff for review. The Town will continue its existing practices, but will also review and modify, if necessary, its procedure for collecting and reviewing citizen feedback regarding proposed and ongoing land disturbance and development activities by July 1, 2017, and continue to follow the procedure through the duration of the permit	Town Engineer	07/01/17	Completed 07/01/17	
4.6 Implement procedure to notify developers about DEEP construction stormwater permit	Ongoing, Complete for 2021	<b>4.6 Standard condition of approval regarding Construction General Permit.</b> The Town has evaluated its procedure for notifying developers or contractors about the potential need for DEEP's	The Town shall evaluate its procedure for notifying developers or contractors about the potential need for DEEP's	Town Engineer	07/01/17	Completed: 07/01/17	



BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
		General Permit by July 1, 2017, and will include a general statement as a standard condition on all site plan approvals	General Permit by July 1, 2017, and modify as needed. The Town shall continue to provide notification throughout the permit term				
4-7 Regulatory Flexibility for Additional Controls	Ongoing, Complete for 2021	<b>4.7 Regulatory Flexibility for Additional Controls.</b> The Town has reviewed its existing regulatory process and has determined that no additional changes beyond those already identified in the Plan are required at this time.	Assess existing regulations regarding construction site stormwater controls; if goals are not being met, update as needed.	Town Engineer	07/01/18	Completed: 12/31/17	
4-8 Require Maintenance and Operation Plans	Ongoing, Complete for 2021	<b>4.8 Require Maintenance and Operation Plans.</b> The Town already requires maintenance plans for stormwater systems, and such maintenance plans must be included on the drawings.	The Town shall evaluate, by July 1, 2019, if any modifications to the existing Regulations are required for the Town to carry out all inspection, surveillance and monitoring procedures as required by the MS4 permit. Such modifications will include a requirement for private landowners to submit a report annually to the Town regarding maintenance and operation of their stormwater basins	Town Engineer	07/01/19	Completed: 07/01/17	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
4-9 Interjurisdictional Agreements	Complete	<p><b>4.9 Interjurisdictional Agreements.</b> The Town is reviewing its stormwater mapping to identify potential interconnections with adjacent MS4s.</p> <p>The Town identified 54 interconnections.</p> <p>The Town's MS4 contributes to the following MS4s, with the number of interconnect locations noted:</p> <p>CTDOT (26) Monroe (1) Shelton (3) Bridgeport (4) Easton (4)</p> <p>The Town's MS4 receives drainage from the following MS4s, with the number of interconnect locations noted:</p> <p>CTDOT (8) Monroe (4) Shelton (1) Bridgeport (1) Easton (2)</p>	Identify locations where Trumbull's MS4 discharges into the MS4 of a neighboring community. Notify adjoining communities.	Town Engineer	07/01/18	Projected: 07/01/21	

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

The following activities are planned for 2022:

1. Continue to enforce existing regulations.
2. Continue to utilize the Veoci system to track citizen reports and concerns.
3. Formalize existing practices into Interdepartmental coordination plan.
4. Continue site review process, including requiring operation and maintenance programs.
5. Continue site inspection program.
6. Continue to identify interconnected MS4s as they become known.
7. Continue notification to applicants of their potential obligation to register for the Construction General Permit.

## 5. Post-Construction Stormwater Management

Reference: 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 Evaluate and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning	Complete	<b>5.1 Evaluate existing regulations for LID stormwater practices.</b> Trumbull's existing ordinances and procedures meet the requirements of the 2017 permit.	Review and evaluate existing relevant ordinances, regulations and procedures.	Town Engineer	07/01/22	Complete: 06/30/18	
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	Ongoing, Complete for 2021	<b>5.2 Enforce LID requirements.</b> The Town Engineer provides stormwater management advisory reviews to the Planning and Zoning Department for most land use applications. Stormwater BMPs are required, and evaluated on a project-specific basis, subject to the requirements of the Town's Stormwater Management Policy.  The 2014 Trumbull Plan of Conservation and Development includes provisions which encourage the use of low-impact development practices.	Update or develop regulations and/or design guidelines that require developers/contractors to first consider implementation of LID/runoff reduction measures for development and redevelopment projects in the Town as specified in the MS4 permit.	Town Engineer	07/01/22	Complete: 06/30/18	
5.3 Maintenance and inspection of stormwater structures	Ongoing, Complete for 2021	<b>5.3 Maintenance and inspection of stormwater structures.</b> As part of the ongoing mapping efforts in Town the Town owned detention and retention facilities are being identified. In 2020, the Town inspected two detention ponds at Madison Middle School and is in the process of studying one of the ponds further.	Draft long-term maintenance plan for retention or detention ponds and stormwater treatment structures or measures.	Town Engineer	06/30/18	Complete: 06/30/18	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
		The Town's Administrative Policy for Stormwater Management and Drainage Design Standards requires owners to maintain their stormwater treatment practice so that they do not become nuisances. The Town requires a plan of operation and maintenance for each system, with the required contents of the plan including requirements for inspection and maintenance.					
5.4 DCIA mapping	Complete	<b>5.4 DCIA Mapping.</b> The Town utilized the state's impervious coverage layer, subtracted out the state roadways and then applied the Sutherland Equations. Refer to Appendix B of the 2019 Annual Report.	Calculate the DCIA that contributes stormwater runoff to each MS4 outfall by July 1, 2020, and update calculations as DCIA is added or removed within the Town.	Town Engineer	07/01/20	Completed: 12/09/19	
5.4A Identify retention and detention ponds in priority areas	In progress	<b>5.4A Identification of Detention Ponds in Priority Areas.</b> The Town will identify known private and public detention ponds.	Identify retention and detention ponds in priority areas.	Town Engineer	07/01/22	Projected: 07/01/22	
5.4B Implement long-term maintenance plan for stormwater basins and treatment structures	In Progress	<b>5.4B Detention/retention system maintenance.</b> The Town's Stormwater Management Policy requires owners to maintain their stormwater treatment practices so that they do not become nuisances. The Town also requires the submission of an operations and maintenance plan or notice of drainage maintenance plan for each	Prepare draft condition of approval for inspection access. Require operation and maintenance plans.	Town Engineer	07/01/22	Projected: 07/01/22	



BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
		<p>system; the required contents of the plan include inspection frequency, maintenance requirements, and intervals for proposed stormwater management practices at the site.</p> <p>The Town is currently working on an illicit discharge ordinance which will include provisions for inspection access.</p>					
5.5 Address post-construction issues in areas with pollutants of concern	Ongoing,  Complete for 2021	<p><b>5.5 Post Construction Erosion and Sediment.</b> Identify erosion and sediment problems in impaired waters. Develop and implement short- and long-term maintenance solutions to the problems as funding becomes available, or use legal authority to hold property owners accountable. Update annual report with identification of problem areas, the cost of the retrofit, and the anticipated pollutant reduction.</p> <p>While no major projects were undertaken in 2020, Town staff always makes minor repairs when issues are identified.</p>	<p>As issues arise on publicly owned property, work is done in-house to correct the issue to the extent practicable. Otherwise, it is incorporated into a listing of projects.</p> <p>On privately owned land, typically a wetlands violation notice will be issued.</p>	Town Engineer	Not specified	Ongoing	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
5.6 Turf reduction	Ongoing,  Complete for 2021	<b>5.6 Turf reduction.</b> The Town's wetland regulations require applicants to preserve as much as the natural buffer as possible.	The Town is continuing to review the need for requirements for turf reduction, and is looking at turf reduction as part of the Unity and Twin Brooks Parks master plans	Town Engineer	07/01/18	Complete: 07/01/17	
5.7 Require consistency with the 2004 Connecticut Stormwater Quality Manual	Ongoing,  Complete for 2021	<b>5.7 Require consistency with the 2004 Connecticut Stormwater Quality Manual.</b> The Town is continuing to review the need for requirements for turf reduction, and is looking at turf reduction as part of the Unity and Twin Brooks Parks master plans.	Update regulations or policies for permit applicants to maintain consistency with the 2004 Stormwater Quality Manual.	Town Engineer	07/01/18	Complete: 07/01/17	
5.8 Coordination with Local Health Department	Ongoing,  Complete for 2021	<b>5.8 Coordination with Local Health Department.</b> The local Health Department is included on application reviews as warranted.	Continue actively coordinating with local Health Department on MS4 Plan requirements.	Town Engineer	07/01/18	Complete: 07/01/17	

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

The following activities are proposed for 2022:

1. Identify public and private retention/detention ponds in priority areas.
2. Address post-construction sediment and erosion control issues as they occur.
3. Continue to encourage preservation and enhancement of natural buffers.
4. Continue to require consistency with the 2004 Stormwater Quality Manual.
5. Continue to coordinate application reviews with the local Health Department.

### 5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	1,543.69
DCIA disconnected (redevelopment plus retrofits)	0.004%
Retrofits completed	1
DCIA disconnected	0.0608 acres
Estimated cost of retrofits	\$600,000
Detention or retention ponds identified	0

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

We began with the state impervious coverage layer, and then looked at the subregional watersheds throughout town, subtracting out the state DOT impervious coverage for each watershed. We then applied the Sutherland Equations for each watershed. Please refer to Appendix B of the 2019 Annual Report.

## 6. Pollution Prevention/Good Housekeeping

Reference: 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	Ongoing	<b>6.1 Develop formal training program.</b> The Town already provides annual training as part of its Industrial Stormwater General Permit. The Town will incorporate MS4 topics into the next training session. Training was conducted on June 29, 2021.	Update training program as needed, incorporate MS4 topics into the annual training program already done as part of the Industrial Stormwater Permit.	Highway Department	07/01/19	Completed: 06/29/2021	
6.2 Implement MS4 property and operations maintenance	Ongoing, Complete for 2019	<p><b>6.2a Liquid Containment and Handling.</b> The Town offers an annual training session as part of its Industrial Stormwater permit, and utilizes secondary containment for storage of liquid materials.</p> <p><b>6.2b Town Vehicle Washing.</b> The Town has a wash area and permitted separator at its public works garage.</p> <p><b>6.2c Town Facilities Sweeping.</b> Town-owned facilities are swept a minimum of once per year, and on an as-needed basis.</p>	Ensure the petroleum and non-petroleum products at its facilities are properly handled via employee education and training. Develop and implement (i) Spill Prevention Plans at facilities as appropriate, (ii) management procedures for waste management equipment, and (iii) plans to sweep parking lots and keep facilities and their surrounding areas clean. Evaluate impacts of vehicle wash areas at public facilities, and develop best management practices to mitigate their impacts on water quality.	Highway Department	07/01/18	12/31/17	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6.3 Implement coordination with interconnected MS4s	Not started	<p><b>6.3 Implement Coordination with Interconnected MS4s.</b> The Town identified 54 interconnections.</p> <p>The Town's MS4 contributes to the following MS4s, with the number of interconnect locations noted:</p> <p>CTDOT (26) Monroe (1) Shelton (3) Bridgeport (4) Easton (4)</p> <p>The Town's MS4 receives drainage from the following MS4s, with the number of interconnect locations noted:</p> <p>CTDOT (8) Monroe (4) Shelton (1) Bridgeport (1) Easton (2)</p>	Coordinate municipal operations with adjoining MS4s.	Town Engineer	Not specified	Projected: 07/01/20	
6.4 Develop/implement program to control other sources of pollutants to the MS4	Complete	<p><b>6.4 Identify non-registered facilities that may be contributors.</b> The Town reviewed its commercial and industrial areas and did not identify any specific facilities that may be contributors to stormwater pollution.</p>	Review stormwater general permit registrant list and identify potential contributing facilities not on the list. Compare locations of potential contributors to screening and monitoring results to determine if further investigation is warranted.	Town Engineer	Not specified	Completed: 12/23/19	

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*	Please refer to BMP 6.13, 6.14 and 6.15 for additional detail. 6.5 Evaluate additional measures for discharges to impaired waters*						
6.6 Track projects that disconnect DCIA	Ongoing,  Complete for 2021	<b>6.6 Track DCIA coverage.</b> The Town will track the DCIA coverage on a separate spreadsheet as land development projects are approved and Certificates of Occupancy are issued.  The Town did not identify any significant disconnection projects in the past 5 years.	Track the disconnected DCIA acreage, identifying DCIA credit eligible sites constructed within the preceding 5 years.	Town Engineer	07/01/17	07/01/17	
6.7 Implement infrastructure repair/rehab program	Ongoing,  Complete for 2021	<b>6.7 Implement infrastructure repair/ rehab program.</b> The Town has a list of projects and reviews them periodically, adding projects or reprioritizing them.  The Town will continue this list.	Prepare draft internal policy on MS4 infrastructure repair, rehabilitation, and retrofits.	Town Engineer	07/01/21	07/01/17	
6.8 Develop/implement plan to identify/prioritize retrofit projects	Complete	<b>6.8 Implement plans based upon data from previous MS4 permit.</b> The work conducted under the pervious MS4 permit did not indicate any problems with the Town's MS4 infrastructure that required retrofit.	Identify required repairs based on data from previous permit and prepare inventory. Make repairs as funding becomes available.	Town Engineer	07/01/20	07/01/17	
6.9 Implement retrofit projects to disconnect 2% of DCIA	Not started	<b>6.9 Implement retrofit projects to disconnect 2% of DCIA.</b> The Town has not identified any opportunities for DCIA disconnection. The Town will continue to look for	Disconnect 2% of the Town's DCIA.	Town Engineer	07/01/22	Projected: 07/01/22	



BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
		opportunities on its facilities and with developers.					
6.10 Develop/implement street sweeping program	Ongoing,  Complete for 2021	<b>6.10 Street sweeping program.</b> The Town sweeps all its streets on an as-needed basis. The Town has indicated that with the reduction in sand use, sweeping is needed less frequently.	Develop and implement a procedure for identifying targeted areas for additional street sweeping. Establish a schedule for street sweeping to ensure minimum frequency is met for areas inside and outside areas with DCIA greater than 11% and/or in the Urbanized Area. Document results of sweeping program.	Highway Department	07/01/18	07/01/17	
6.11 Develop/implement catch basin cleaning program	Ongoing,  Complete for 2021	<b>6.11 Catch basin cleaning.</b> The Town cleans its catch basins on a rotating basis. 578 catch basins were cleaned in 2021. As part of the cleaning process, the Town records the condition of each catch basin, and its workers look for signs of illicit discharges.	Continue conducting routine cleaning of all catch basins. Track catch basin inspection observations. Develop and implement a plan for catch basin inspection and maintenance. Update the Annual Report with documentation of the Town's catch basin cleaning and maintenance process.	Highway Department	07/01/20	07/01/17	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6.12 Develop/implement snow management practices	Ongoing,  Complete for 2021	<b>6.12 Snow management practices.</b> The Town currently has a Snow and Ice Management policy from 2012.  The Town minimizes the use of sand on its roadways, and in 2021 used no sand. The Town uses magnesium chloride exclusively.	Develop and implement a written snow and ice management plan, including protocols for staff training and record maintenance and updated standard operating practices. Provide appropriate secondary containment for any exterior containers of liquid dicing materials. Update the Annual Report with required information on the snow and ice program.	Highway Department	07/01/18	07/01/18	
6.13 Parks and Open Space Management	Ongoing,  Complete for 2021	<b>6.13 Parks and Open Space Management.</b> The Town optimizes fertilizer use on its parks properties. Grass clippings are left in place, and leaves are collected and composted.  Pesticide use is limited to select application for grub control.	Continue implementing procedures for fertilizer application and disposal of grass clippings and leaves for lands that are the legal responsibility of the Town.	Parks and Recreation Department	07/01/18	12/31/17	
6-14 Pet waste management	Complete	<b>6.14 Pet waste management.</b> Receptacles and collection bags are located in Town parks along the Pequonnock River. The Pequonnock River is impaired for bacteria, and therefore the receptacles and collection bags have been placed in parks along the river.	Identify locations with the town where pet waste threatens receiving water quality.	Parks and Recreation Department	07/01/18	07/01/17	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6.14 Waterfowl management	Complete	<b>6.14 Waterfowl Management.</b> Waterfowl congregation areas were identified at Old Mine Park and signage was posted warning about feeding of waterfowl.	Identify waterfowl congregation areas.	Parks and Recreation Department	07/01/18	07/01/17	

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6.15 Mitigate Stormwater Quality Impacts of Town-Owned Vehicles and Equipment	Complete	<b>6.15 Town vehicle maintenance and washing.</b> There is a wash area at the DPW garage that includes a permitted separator.	Review existing operations and maintenance procedures for Town facilities, and update if the vehicle fueling/washing provisions have not been included.	Highway Department	07/01/18	07/01/17	
6-16 Leaf management	Ongoing, Complete for 2021	<b>6.16. Leaf management.</b> Trumbull has conducted a Town-wide leaf collection program for many years. Leaves are picked up curbside by the Town every fall and composted at the Town's Public Works facility. The Town posts requirements online, and requires leaves to be in paper biodegradable bags. The 2021 leaf pickup began November 8, 2020. The Town advises residents to not place leaves in the roadway, and has the authority to fine the property owner \$90 for the first violation.	Continue to implement Town-wide leaf collection program, collecting leaves curbside at least once each fall.	Highway Department	07/01/22	07/01/22	

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

Activities proposed for 2022 include:

1. Continue employee training programs.
2. Continue to institute requirements of the Industrial general Permit SWPPP.
3. Identify interconnected MS4s.
4. Identify potential contributors from General Permit non-registrants.
5. Track DCIA disconnection.
6. Continue existing infrastructure repair policies.
7. Perform infrastructure repairs as needed and as funding is available.
8. Continue street sweeping program.
9. Continue catch basin cleaning program.
10. Continue snow management practices.

11. Continue to optimize fertilizers on town properties.
12. Continue prohibition on dogs from town parks.
13. Continue to maintain and wash Town vehicles in accordance with the Industrial General Permit.
14. Continue leaf management policy.

### 6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	Last provided 06/29/21
Street sweeping	
Curb miles swept	50 curb-miles
Volume (or mass) of material collected	Unknown
Catch basin cleaning	
Total catch basins in priority areas	8,900
Total catch basins in MS4	8,900
Catch basins inspected	578
Catch basins cleaned	578
Volume (or mass) of material removed from all catch basins	2,890 tons
Volume removed from catch basins to impaired waters (if known)	unknown
Snow management	
Type(s) of deicing material used	Sodium chloride
Total amount of each deicing material applied	3,431 tons
Type(s) of deicing equipment used	Trucks and spreaders
Lane-miles treated	456 miles
Snow disposal location	In-situ, no hauling
Staff training provided on application methods & equipment	Yes, ongoing
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	0 lbs.
Reduction in turf area (since start of permit)	0 acres
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	\$0

## 6.4 Catch Basin Cleaning Program

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

The Town has developed a catch basin maintenance program that consists of inspecting and cleaning catch basins in critical areas on a yearly basis. Additional catch basins in other areas are cleaned as manpower/funds permit, with a goal of cleaning all catch basins in the system at least once per year.

## 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 2017 report. Section to be completed for the 2019 Annual Report.]**

1. Projects are identified on an as-needed basis, and implemented based upon perceived benefit or potential impact to water quality. In 2017, no projects were undertaken to improve storm drainage quality.
2. The retrofit program will continue to proceed on an as-needed basis, as funding is made available. The Town is evaluating its properties to identify potential disconnection opportunities, and looks for disconnection opportunities in site plan applications by default since the Town requires conformance with the 2011 LID Supplement to the 2004 Stormwater Quality Manual.
3. The Town will continue with its existing process for implementing its own projects, and also for reviewing Town projects and site applications as they come in for review to help achieve the DCIA reduction goal.

**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 2017 report. Section to be completed for the 2019 Annual Report.]**

The retrofit program will continue to proceed on an as-needed basis, as funding is made available. The Town is evaluating its properties to identify potential disconnection opportunities, and looks for disconnection opportunities in site plan applications by default since the Town utilizes an undeveloped site as the basis of comparison for site development projects.



**Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1% DCIA annually over the next 5 years.  
[Provide information if available in 2017 report. Section to be completed for the 2019 Annual Report.]**

The Town will continue with its existing process for implementing its own projects, and also for reviewing Town projects and site applications as they come in for review to help achieve the DCIA reduction goal.

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# 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.

Impaired waters monitoring to begin in 2022, original plan to start in 2020 delayed by pandemic.

## 2. Screening Data for Outfalls to Impaired Waterbodies

Reference: (Section 6(i)(1) / page 41)

### 2.1 Screening data collected under 2017 permit

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

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

### 3. Follow-up Investigations

Reference: Section 6(i)(1)(D) / page 43

Provide the following information for outfalls exceeding the pollutant threshold.

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

### 4. Prioritized Outfall Monitoring

Reference: Section 6(i)(1)(D) / page 43

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

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

## Part III: Additional IDDE Program Data

### 1. Assessment and Priority Ranking of Catchments data

Reference: MS4 General Permit, 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
7105-00-2-R3	High Priority	1
7108-04-1	High Priority	2
7108-00-2-L2	High Priority	3
7105-00-2-R6	High Priority	4
7105-00-2-L2	High Priority	5
7105-00-2-R8	High Priority	6
7105-05-1	High Priority	7
7105-08-1	High Priority	8
7108-07-1	High Priority	9
7105-00-2-R5	High Priority	10
7105-00-2-R7	High Priority	11
7108-00-2-R2	High Priority	12
7105-07-1	High Priority	13
7104-00-1-L1	High Priority	14
7105-06-1	High Priority	15
7105-00-2-R4	High Priority	16
7106-02-1-L1	High Priority	17
7105-00-2-R3	High Priority	18
7108-04-1	High Priority	19
7108-00-2-L2	High Priority	20
7105-00-2-R6	High Priority	21
7105-00-2-L2	High Priority	22
7105-00-2-R8	High Priority	23

(1) Catchment ID (DEEP Basin ID)	(2) Category	(3) Rank
7105-05-1	High Priority	24
7105-08-1	High Priority	25
7108-07-1	High Priority	26
7105-00-2-R5	High Priority	27
7105-00-2-R7	High Priority	28
7108-00-2-R2	High Priority	29
7105-07-1	High Priority	30
7104-00-1-L1	High Priority	31
7105-06-1	High Priority	32
7105-00-2-R4	High Priority	33
7106-02-1-L1	High Priority	34
7103-01-1	Low Priority	35
7103-00-1	Low Priority	36
7105-04-1	Low Priority	37
7105-01-2-R1	Low Priority	38
7105-06-1-L1	Low Priority	39
6025-00-2-R1	Low Priority	40
7104-01-1	Low Priority	41
6025-00-2-L1	Low Priority	42
7104-01-1-L1	Low Priority	43
7106-02-1*	Low Priority	44
7106-02-1-L3	Low Priority	45
7108-00-2-L1	Low Priority	46
7108-04-1-L1	Low Priority	47
6025-02-1	Low Priority	48
7105-03-1	Low Priority	49
7105-00-2-R1	Low Priority	50
7105-00-2-R2	Low Priority	51
7105-10-1-L2	Low Priority	52
7105-10-1-L3	Low Priority	53

(1) Catchment ID (DEEP Basin ID)	(2) Category	(3) Rank
6026-01-1	Low Priority	54
6026-02-1	Low Priority	55
7104-02-1	Low Priority	56
7104-04-1	Low Priority	57
7105-09-1	Low Priority	58
7106-01-1	Low Priority	59
6026-00-1*	Low Priority	60
6026-00-1-L1	Low Priority	61
6026-00-1-L2	Low Priority	62
7104-00-1*	Low Priority	63
7104-00-1-L2	Low Priority	64
7104-00-1-L5	Low Priority	65
7104-01-2-R1	Low Priority	66
7105-09-1-L2	Low Priority	67
7105-10-1-L1	Low Priority	68
7106-02-1-L1	Low Priority	69
7104-03-1	Low Priority	70
6025-00-3-L2	Low Priority	71
7104-00-1-L3	Excluded	
7104-00-1-L4	Excluded	
7105-09-1-L1	Excluded	

## 2. Outfall and Interconnection Screening and Sampling Data

Reference: MS4 General Permit, 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, col/ 100 mL	Surfactants	Water Temp	Pollutant of concern	If required, follow-up actions taken
7108-04-1 Autumn Ridge	07/31/2018	ND	ND			1	ND			
7108-04-1 Madison/Brittany	08/06/2018	ND	ND			65	ND			
7108-00-2-L2 End of Saxony	08/07/2018	ND	ND			179	ND			
7108-04-1-L1 End of Cold Spring	08/08/2018	ND	ND			185	ND			
7108-00-2-L2 Essex/Sturbridge	08/08/2018	ND	ND			2,420	ND			
7105-04-1 Coventry & Tashua	08/13/2018	ND	ND			34	ND			
7105-04-1 Red Barn Road, North of Pond	08/15/2018	ND	ND			228	ND			
7105-00-2-L2 Beardsley Parkway / White Plains Rd.	11/28/2018	ND	ND			45	ND			
7105-00-2-L2 Beardsley Parkway / Hillcrest Rd.	11/28/2018	ND	ND			980	ND			Wet weather testing, review of septic failures in area. This area is under consideration for sewer expansion.
7103-00-1 Knollcrest Drive	11/28/2018	ND	ND			308	ND			
7103-00-1 Juniper Ridge	11/28/2018	ND	ND			128	0.14			
7103-00-1 Juniper Circle	11/28/2018	ND	ND			5	0.025			



Outfall / Interconnection ID	Screening / sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or enterococcus, col/ 100 mL	Surfactants	Water Temp	Pollutant of concern	If required, follow-up actions taken
<b>7103-00-1</b> Beardsley Parkway / Huntington Turnpike	11/28/2018	ND	ND			173	ND			
<b>7103-00-1</b> 8 Round Hill Road	11/28/2018	ND	ND			1	ND			
<b>7103-00-1</b> 34 Round Hill Road	11/28/2018	ND	ND			866	0.17			Wet weather testing, review of septic failures in area. This area is under consideration for sewer expansion.
<b>7103-00-1</b> Huntington Turnpike	11/28/2018	ND	ND			23	ND			
<b>7103-01-1</b> Stella Street	11/28/2018	ND	ND			28	ND			
<b>7103-01-1</b> Vazzano Place	11/28/2018	ND	ND			31	ND			
<b>7103-01-1</b> Intervale Road	11/28/2018	ND	ND			150	ND			
<b>2019-002</b> 72 Westfield	06/17/2019	ND	ND	8.6	0	172	ND	73		
<b>2019-001</b> 32 Westfield	06/17/2019	ND	ND	9.0	0	13	ND	73		
<b>2019-003</b> Wendover Culvert	06/24/2019	0.25	ND	50.7	0.03	56	ND	76		
<b>2019-004</b> North of Wendover	06/24/2019	ND	ND	57.5	0.03	63	ND	76		
<b>2019-005</b> Madison Culvert	06/24/2019	ND	ND	0	0	4	ND	79		
<b>2019-006</b> Dead End of Saxony	06/24/2019	ND	ND	56.1	0.03	6	ND	84	\	
<b>2019-007</b> Kent and Tashua	06/26/2019	ND	ND	50.1	0.02	6	ND	76		
<b>2019-008</b> Tudor	06/26/2019	ND	ND	53.9	0.03	488	ND	76		

Outfall / Interconnection ID	Screening / sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or enterococcus, col/ 100 mL	Surfactants	Water Temp	Pollutant of concern	If required, follow-up actions taken
<b>2019-009</b> Main Street and Cedar Hill	06/26/2019	ND	ND	52.5	0.03	10	ND	84		
<b>2019-010</b> Across from 70 20 Main Street	06/26/2019	ND	ND	55.5	0.03	-	ND	84		
<b>2019-011</b> Pomona Culvert	06/27/2019	ND	ND	50.0	0.02	99	ND	82		
<b>2019-012</b> Pomona & Misty Wood	06/27/2019	ND	ND	73.2	0.03	178	ND	85		
<b>2019-013</b> Main Street & Spring Hill	06/27/2019	ND	ND	51.2	0.03	77	ND	86		
<b>2019-014</b> Mallett Drive	07/01/2019	ND	ND	33.7	0.02	192	ND	70		
<b>2019-0155</b> Middle of Tashua Lane	07/01/2019	.25	ND	40.0	0.02	326	ND	76		
<b>2019-016</b> Old Village Culvert	07/02/2019	ND	ND	34.4	0.02	214	ND	76		
<b>2019-017</b> Cottonon Trial	07/02/2019	ND	ND	37.9	0.02	46	ND	77		
<b>2019-018</b> Seeley Road	07/02/2019	ND	ND	38.5	0.02	11	ND	79		
<b>2019-019</b> Saratee Circle	07/03/2019	ND	ND	29.5	0.01	24	ND	78		
<b>2019-020</b> Pond Lane	07/03/2019	.25	ND	31.5	0.02	8	ND	80		
<b>2019-021</b> Beechwood Avenue	07/03/2019	ND	ND	31.7	0.0	194	ND	82		
<b>2019-022</b> Solar Ridge Road	07/03/2019	ND	ND	29.4	0.01	59	ND	82		
<b>2019-023</b> Meadow Road W1	07/09/2019	ND	ND	19.7	0.01	2420	ND	69		
<b>2019-024</b> North Lynwood	07/09/2019	ND	ND	20.4	0.01	1414	ND	79		
<b>2019-025</b> Oakland	07/09/2019	ND	ND	20.0	0.01	52	0.23	81		

Outfall / Interconnection ID	Screening / sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or enterococcus, col/ 100 mL	Surfactants	Water Temp	Pollutant of concern	If required, follow- up actions taken
<b>2019-026</b> Dayton Road 7	07/09/2019	ND	ND	25.1	0.01	1553	0.23	83		
<b>2019-027</b> Dayton Road 8	07/09/2019	ND	ND	22.9	0.01	365	0.21	82		
<b>2019-028</b> Pemberton Drive	07/10/2019	ND	ND	20.4	0.01	42	ND	78		
<b>2019-029</b> Lake Avenue 1	07/10/2019	ND	ND	21.3	0.01	387	ND	81		
<b>2019-030</b> Madison Middle	07/11/2019	ND	ND	12.4	0.01	5	ND	78		
<b>2019-031</b> Spring Street	07/11/2019	ND	ND	22.3	0.01	2420	ND	82		
<b>2019-032</b> Canoe Brook Road 7	07/15/2019	ND	ND	11.6	0.01	34	ND	77		
<b>2019-033</b> Twisted Oak Circle	07/15/2019	ND	ND	10.3	0.01	461	ND	76		
<b>2019-034</b> Garwood Road	07/15/2019	ND	ND	10.1	0.01	99	ND	81		
<b>2019-035</b> Bittersweet Lane	07/16/2019	ND	ND	13.6	0.01	261	ND	80		
<b>2019-036</b> Walker Road 1	07/16/2019	ND	ND	17.1	0.01	816	ND	82		
<b>2019-037</b> Walker Road 3	07/16/2019	ND	ND	18.4	0.01	866	ND	83		
<b>2019-038</b> Wood Avenue	07/16/2019	ND	ND	22.7	0.01	194	ND	86		
<b>2019-039</b> Lull Water Road Culvert	07/22/2019	ND	ND	10.7	0.00	135	ND	77		
<b>2019-040</b> Mayfield Drive 1	07/22/2019	ND	ND	13.0	0.01	41	ND	77		
<b>2019-041</b> Mayfield Drive 2	07/22/2019	ND	ND	14.1	0.01	56	ND	78		
<b>2019-042</b> Park Lane 4	07/22/2019	ND	ND	14.2	0.01	184	ND	79		
<b>2019-043</b> Cottage Street 5	07/24/2019	ND	ND	8.1	0.00	364	ND	79		

Outfall / Interconnection ID	Screening / sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or enterococcus, col/ 100 mL	Surfactants	Water Temp	Pollutant of concern	If required, follow-up actions taken
<b>2019-044</b> Pondview Avenue 2	07/24/2019	ND	ND	13.2	0.01	816	ND	77		
<b>2019-045</b> Glenbrook Road	07/24/2019	ND	ND	13.2	0.01	135	0.24	77		
<b>2019-046</b> Revere Lane 3	07/24/2019	ND	ND	14.4	0.01	435	ND	82		
<b>2019-047</b> Revere Lane 4	07/25/2019	ND	ND	6.9	0.00	72	ND	79		
<b>2019-048</b> Revere Lane 2	07/25/2019	ND	ND	11.6	0.01	308	ND	76		
<b>2019-049</b> Lafayette Drive 3	07/25/2019	ND	ND	13.1	0.01	71	ND	79		
<b>2019-050</b> Lafayette Drive 2	07/25/2019	ND	ND	15.7	0.01	387	ND	81		
<b>2019-051</b> Colony Avenue 2	07/29/2019	ND	ND	10.9	0.00	75	ND	82		
<b>2019-052</b> Fairview Avenue	07/29/2019	ND	ND	12.0	0.01	3	ND	80		
<b>2019-053</b> Harvester Road	07/29/2019	ND	ND	15.5	0.00	517	ND	91		
<b>2019-054</b> Blackhouse Road 4	07/30/2019	ND	ND	9.6	0.00	201	ND	82		
<b>2019-055</b> Machalowski 2	07/30/2019	ND	ND	15.3	0.01	276	ND	94		
<b>2019-056</b> Frenchtown Road	07/31/2019	ND	ND	12.4	0.00	488	ND	78		
<b>2019-057</b> Lindeman Drive 2	07/31/2019	ND	ND	17.1	0.01	14	ND	82		
<b>2019-058</b> Woodside Avenue 1	07/31/2019	ND	ND	18.5	0.01	687	ND	90		
<b>2019-058</b> Trefoil Drive 2	08/01/2019	ND	ND	15.8	0.01	157	ND	81		
<b>2019-059</b> Technology Drive 2	08/01/2019	0.25	ND	18.4	0.01	4880	ND	83		
<b>2019-060</b> Corporate Drive 3	08/01/2019	ND	ND	15.4	0.01	365	ND	83		

Outfall / Interconnection ID	Screening / sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or enterococcus, col/ 100 mL	Surfactants	Water Temp	Pollutant of concern	If required, follow- up actions taken
<b>2019-062</b> Williams Road	08/05/2019	ND	ND	5.6	0.00	291	ND	71		
<b>2019-063</b> Sutton Place	08/05/2019	ND	ND	6.9	0.00	282	ND	77		
<b>2019-0643</b> Island Brook Park 3	08/05/2019	ND	ND	12.8	0.01	299	ND	80		
<b>2019-065</b> Grove Street	08/06/2019	ND	ND	9.6	0.01	1046	ND	73		
<b>2019-066</b> Highway Department 6	08/06/2019	ND	ND	16.1	0.01	921	ND	73		
<b>2019-067</b> Island Brook Park 5	08/06/2019	ND	ND	12.9	0.01	54	ND	74		
<b>2019-068</b> Tashua and Main Street	08/06/2019	ND	ND	13.9	0.01	17	ND	77		
<b>2019-069</b> Indian Ledge Park 1	08/07/2019	0.5	ND	14.8	0.01	45	ND	78		
<b>2019-070</b> Broadway Road	08/07/2019	ND	ND	15.2	0.01	38	ND	81		
<b>2019-073</b> Blackhouse Road 10	08/12/2019	ND	ND	8.5	0.01	261	ND	80		
<b>2019-074</b> Norwood Terrace	08/12/2019	ND	ND	5.4	0.01	150	ND	77		
<b>2019-075</b> Unity Park 6	08/13/2019	ND	ND	9.7	0.01	1,986	ND	77		
<b>2019-076</b> Unity Park 10	08/13/2019	ND	ND	12.2	0.01	2,420	ND	75		
<b>2019-077</b> Juniper Ridge Road	08/14/2019	ND	ND	7.6	0.00	649	ND	75		
<b>2019-078</b> Caldron Drive	12/19/2019	ND	ND	12.2	0.01	19	ND	75		
<b>2019-079</b> Indian Ledge Drive	12/19/2019	ND	ND	7.6	0.00	109	ND	75		

## 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
<b>7105-00-2-L2</b> Beardsley Parkway / White Plains Rd.	12/17/2018	ND	ND			11	ND		
<b>7105-00-2-L2</b> Beardsley Parkway / Hillcrest Rd.	12/17/2018	ND	ND			9	ND		
<b>7103-00-1</b> Knollcrest Drive	12/17/2018	ND	ND			121	ND		
<b>7103-00-1</b> Juniper Ridge	12/17/2018	ND	ND			22	ND		
<b>7103-00-1</b> Juniper Circle	12/17/2018	ND	ND			50	0.025		
<b>7103-00-1</b> Beardsley Parkway / Huntington Turnpike	12/17/2018	ND	ND			53	ND		
<b>7103-00-1</b> 8 Round Hill Road	12/17/2018	ND	ND			2	ND		
<b>7103-00-1</b> 34 Round Hill Road	12/17/2018	ND	ND			10	ND		
<b>7103-00-1</b> Huntington Turnpike	12/17/2018	ND	ND			57	0.075		
<b>7103-01-1</b> Stella Street	12/17/2018	ND	ND			25	ND		
<b>7103-01-1</b> Vazzano Place	12/17/2018	ND	ND			38	0.030		
<b>2019-078</b>	12/20/2019					19	ND		
<b>2019-079</b>	12/20/2019					109	ND		
<b>2019-080</b>	1/2/2020					3	0.04		
<b>2019-081</b>	1/2/2020					50	0.03		
<b>2019-082</b>	1/2/2020					1	0.06		
<b>2019-083</b>	1/2/2020					147	ND		
<b>2019-084</b>	1/2/2020					10	ND		

Outfall / Interconnection ID	Sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or Enterococcus	Surfactants	Water Temp	Pollutant of concern
2019-085	1/6/2020					1	ND		
2019-086	1/6/2020					49	0.06		
2019-087	1/6/2020					387	ND		
2019-088	1/7/2020					0	ND		
2019-089	1/7/2020					0	ND		
2019-090	1/7/2020					0	ND		
2019-091	1/8/2020					2	ND		
2019-092	1/8/2020					3	ND		
2019-093	1/9/2020					0	ND		
2019-094	1/9/2020					4	0.03		
2019-095	1/9/2020					0	ND		

### 3. Catchment Investigation Data

Reference: MS4 General Permit, Appendix B (A)(7)(e) / page 9

#### 3.1 System Vulnerability Factor Summary

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

Outfall ID	Receiving Water	System Vulnerability Factors

Where SVFs are:

1. History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.
2. Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs.
3. Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints.
4. Common or twin-invert manholes serving storm and sanitary sewer alignments.



5. Common trench construction serving both storm and sanitary sewer alignments.
6. Crossings of storm and sanitary sewer alignments.
7. Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;
8. Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure investigations.
9. Areas formerly served by combined sewer systems.
10. Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.
11. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).
12. History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).

### 3.2 Key junction manhole dry weather screening and sampling data

Key Junction Manhole ID	Screening / Sample date	Visual/ olfactory evidence of illicit discharge	Ammonia	Chlorine	Surfactants
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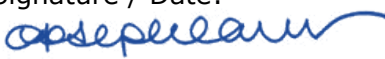
### 3.3 Wet weather investigation outfall sampling data

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

<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: Vicki Tesoro First Selectman	Print name: Joseph Canas, PE, LEED AP, CFM Principal Engineer
Signature / Date:	Signature / Date:  08/23/2021

**APPENDIX A**

## What is an impervious surface?

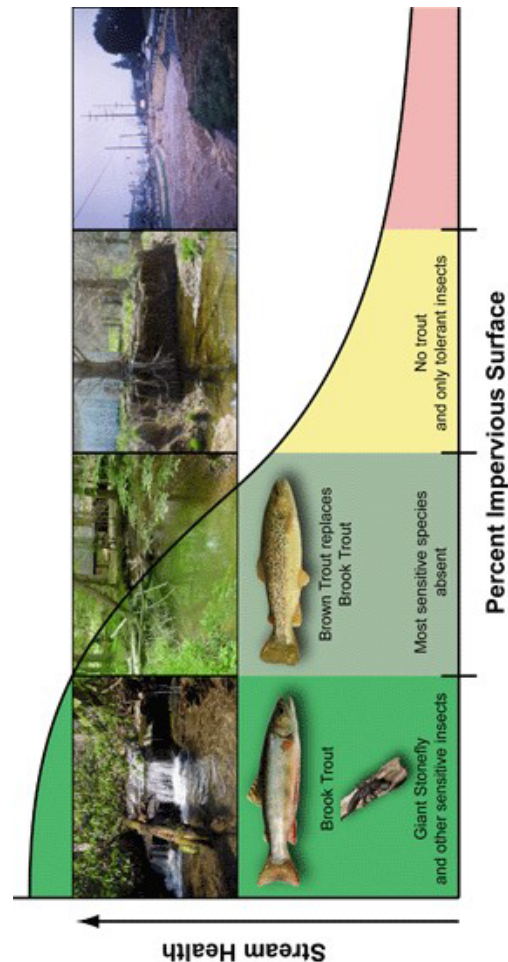
An Impervious Surface is a created surface, such as brick, stone, concrete or asphalt, placed on the land to facilitate passage, for recreation purposes or decoration. Retaining walls are included as an impervious surface. Examples of impervious surfaces are patios, swimming pools, sidewalks, buildings, tennis courts, driveways, etc.

## Why regulate impervious coverage?

As more land is covered with buildings and pavement, water runoff can cause drainage problems on your property and to neighboring properties, and worsen stream water quality.

## Did you know?

Studies indicate that that runoff from urbanized areas is the leading source of water quality impairments?



Source: Maryland DNR, US EPA



Town of Trumbull  
Engineering Department  
366 Church Hill Road  
Trumbull, CT 06611

## Minimizing Impervious Coverage



**A Homeowner's Guide to Understanding the Challenge of Impervious Surfaces**

## Minimize

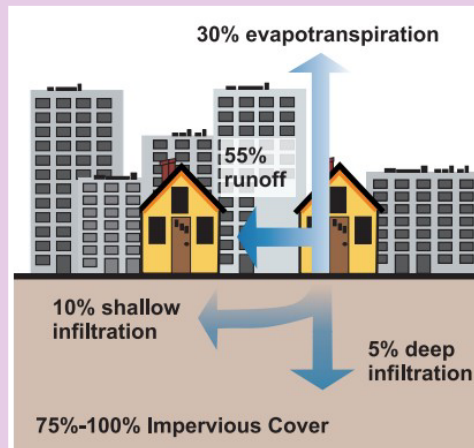
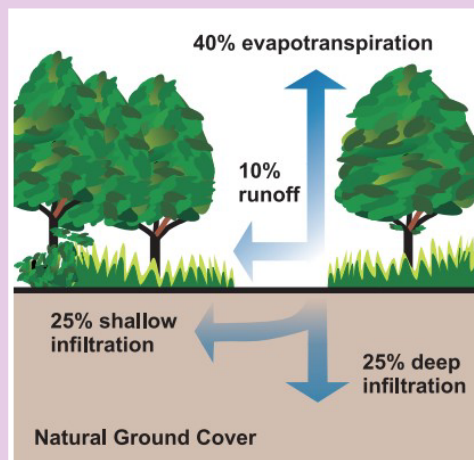
Develop alternatives to areas traditionally covered by impervious surfaces. Porous pavement materials are available for driveways and sidewalks, and native vegetation and mulch can replace high maintenance grass lawns. Use fertilizers sparingly and sweep driveways, sidewalks, and roads instead of using a hose.

## Mitigate

Forms of stormwater management, such as detention ponds, rain gardens and infiltration chambers, are frequently used to mitigate the impacts of impervious surfaces in existing and new developments. Choosing which technique to apply to a specific site is dependent upon the amount of runoff that needs to be intercepted, the lot size, the permeability of the soils, and several other site-specific factors.

## Maintain

It is important to maintain the existing impervious cover in a way that encourages the flow of the runoff through the stormwater system and reduces the pollutant loads in that runoff. Clear trash and debris from paved surfaces. Promote flow through the system while providing stormwater treatment for trash, litter, coarse sediment, oil, and other debris before the runoff proceeds through the system.



Impervious cover reduces the amount of rainfall that infiltrates into the ground, reducing the ability of groundwater to recharge.

## Did you know?

Due to impervious surfaces like pavement and rooftops, a typical city block generates 5 times more runoff than a woodland area of the same size.

## Increased Pollutant Loads

Impervious surfaces, because they don't allow stormwater to infiltrate into the ground, increase the variety and amount of pollutants carried into streams, rivers, and lakes.

The pollutants include:

- Sediment
- Oil, grease, and toxic chemicals from motor vehicles
- Pesticides and nutrients from lawns and gardens
- Viruses, bacteria, and nutrients from pet waste
- Road salts
- Heavy metals from galvanized metals, motor vehicles, and other sources
- Thermal pollution from dark impervious surfaces such as streets and rooftops

These pollutants can harm fish and wildlife populations, kill native vegetation, foul drinking water supplies, and make recreational areas unsafe and unpleasant.